

No.	Co-authors	Article title	Keywords	Vol., No., pp.	DOI	Citation
1	Indrajaya, Y., Siarudin, M., Qirom, M.A., Nirsatmanto, A., Sunarti, S., Kartikawati, N.K., Rimbawanto, A., Haryjanto, L., Herawan, T., Putri, A.I., Lestari, F., Halwany, W., Putra, P.B., Pratiwi, D.	Nonlinear Height-Diameter Models for Anthocephalus macrophyllus in Indonesia	Anthocephalus macrophyllus (Roxb.) Havil., height-diameter models, tree growth models, Chapman-Richards model	19, 4, 1099-1108	https://doi.org/10.18280/ijdne.190401	Indrajaya, Y., Siarudin, M., Qirom, M.A., Nirsatmanto, A., Sunarti, S., Kartikawati, N.K., Rimbawanto, A., Haryjanto, L., Herawan, T., Putri, A.I., Lestari, F., Halwany, W., Putra, P.B., Pratiwi, D. (2024). Nonlinear height-diameter models for Anthocephalus macrophyllus in Indonesia. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1099-1108. https://doi.org/10.18280/ijdne.190401
2	Dirman, E.N., Riniwati, H., Harahab, N., Semedi, B., Rachmansyah, A.	Developing Eco-Fishing Ports in East Java: A Structural Equation Modeling Analysis	eco-fishing port, East Java, regulation, structural equation modelling, sustainable	19, 4, 1109-1119	https://doi.org/10.18280/ijdne.190402	Dirman, E.N., Riniwati, H., Harahab, N., Semedi, B., Rachmansyah, A. (2024). Developing eco-fishing ports in East Java: A structural equation modeling analysis. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1109-1119. https://doi.org/10.18280/ijdne.190402
3	Abed, S.M., Rashid, S.N., Al-Najar, F.M., Mustafa, M.A.	Comparative Effects of Nd: YAG and Diode Laser Irradiation on Escherichia coli Clinical Isolates: A Molecular Analysis	antibacterial, diode laser, E. coli, laser therapy, Nd: YAG laser, RAPD-PCR	19, 4, 1121-1128	https://doi.org/10.18280/ijdne.190403	Abed, S.M., Rashid, S.N., Al-Najar, F.M., Mustafa, M.A. (2024). Comparative effects of Nd: YAG and diode laser irradiation on Escherichia coli clinical isolates: A molecular analysis. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1121-1128. https://doi.org/10.18280/ijdne.190403
4	Purnomo, A.H., Aidi, M.N., Wahyono, A., Soeprbowati, T.R., Hartati, S.T., Tirtadanu, Chodrijah, U., Prasetyo, S., Prihatiningsih, Jumari, Yusuf, M.	Mismanagement Issues in Sustaining Capture Fisheries in Lake Batur	capture fisheries, Lake Batur, management, policy, sustainability	19, 4, 1129-1138	https://doi.org/10.18280/ijdne.190404	Purnomo, A.H., Aidi, M.N., Wahyono, A., Soeprbowati, T.R., Hartati, S.T., Tirtadanu, Chodrijah, U., Prasetyo, S., Prihatiningsih, Jumari, Yusuf, M. (2024). Mismanagement issues in sustaining capture fisheries in Lake Batur. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1129-1138. https://doi.org/10.18280/ijdne.190404
5	Faizulina, E., Tatarikina, L., Spankulova, G., Aitkeldiyeva, S., Baimakhanova, G., Smirnova, I., Alexieva, Z., Ashimuly, K.	Hydrocarbon-Oxidizing Activity of the New Rhodococcus sp. Strain 1D/1 Promising for Cleaning the Environment from Oil Pollution	biodegradation, bioremediation, oil, oil-oxidizing microorganisms, petroleum products, temperature	19, 4, 1139-1150	https://doi.org/10.18280/ijdne.190405	Faizulina, E., Tatarikina, L., Spankulova, G., Aitkeldiyeva, S., Baimakhanova, G., Smirnova, I., Alexieva, Z., Ashimuly, K. (2024). Hydrocarbon-oxidizing activity of the new Rhodococcus sp. strain 1D/1 promising for cleaning the environment from oil pollution. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1139-1150. https://doi.org/10.18280/ijdne.190405
6	Cedeño-Palacios, W., Zumba-Aguirre, J., Murillo-Urdánigo, J., Solórzano, J., Briones-Bitar, J., Carrión-Mero, P.	Assessment of Soil Consolidation Techniques in Ecuador: Preloading and Wick Drains in the Exodo-Fertisa Project	geotechnics, settlement, ground improvement, geophysics, wick drains and preloading	19, 4, 1151-1165	https://doi.org/10.18280/ijdne.190406	Cedeño-Palacios, W., Zumba-Aguirre, J., Murillo-Urdánigo, J., Solórzano, J., Briones-Bitar, J., Carrión-Mero, P. (2024). Assessment of soil consolidation techniques in Ecuador: Preloading and wick drains in the Exodo-Fertisa project. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1151-1165. https://doi.org/10.18280/ijdne.190406
7	Purba, S.F., Sihombing, Y., Mardiharini, M., Adiyoga, W., Nadjib, M., Yulianti, A., Malik, F., Jamal, E., Hutahaean, L., Wasito, W.	Determinants of Shallot Innovation Adoption and Yields in Temanggung Regency, Central Java	adoption, coefficient of variation, farmers perceptions, innovation, shallot farmer, Temanggung Regency	19, 4, 1167-1176	https://doi.org/10.18280/ijdne.190407	Purba, S.F., Sihombing, Y., Mardiharini, M., Adiyoga, W., Nadjib, M., Yulianti, A., Malik, F., Jamal, E., Hutahaean, L., Wasito, W. (2024). Determinants of shallot innovation adoption and yields in Temanggung Regency, Central Java. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1167-1176. https://doi.org/10.18280/ijdne.190407
8	Savira, D., Razi, N.M., Khalidin, K., Darmawan, F., Mahfud, M., Firdus, F., Muchlisin, Z.A.	Diversity and Distribution of Phytoplankton in the Singkil Peat Swamp Water, Aceh Province, Indonesia	bioindicator, community structure, peat swamps, phytoplankton, Rawa Singkil	19, 4, 1177-1186	https://doi.org/10.18280/ijdne.190408	Savira, D., Razi, N.M., Khalidin, K., Darmawan, F., Mahfud, M., Firdus, F., Muchlisin, Z.A. (2024). Diversity and distribution of phytoplankton in the Singkil peat swamp water, Aceh province, Indonesia. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1177-1186. https://doi.org/10.18280/ijdne.190408
9	Hussain, M.A., Md Yasir, A.S.H., Kamaruzaman, M.Y., Abdul Raji, M.N., Basri, A.Q., Hanapi, Z., Mohd Yunus, M.Y.	Impacts of Outdoor Landscape on Early Learning: Insights from the NCDRC Kindergarten at UPSI	landscape design, kindergarten environment, sense of place, teaching and learning, Malaysia	19, 4, 1187-1194	https://doi.org/10.18280/ijdne.190409	Hussain, M.A., Md Yasir, A.S.H., Kamaruzaman, M.Y., Abdul Raji, M.N., Basri, A.Q., Hanapi, Z., Mohd Yunus, M.Y. (2024). Impacts of outdoor landscape on early learning: Insights from the NCDRC kindergarten at UPSI. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1187-1194. https://doi.org/10.18280/ijdne.190409
10	Rosmarlinasiah, Bana, S., Mariani, S., Kete, S.C.R.	Tree Species as Forage for Apis dorsata Binghamii and Impact on Tree Health in Mangolo Nature Tourism Area, Indonesia	Apis dorsata Binghamii, bee forage, nest stress, physical damage, species diversity	19, 4, 1195-1202	https://doi.org/10.18280/ijdne.190410	Rosmarlinasiah, Bana, S., Mariani, S., Kete, S.C.R. (2024). Tree species as forage for Apis dorsata Binghamii and impact on tree health in Mangolo Nature Tourism Area, Indonesia. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1195-1202. https://doi.org/10.18280/ijdne.190410
11	Abdul Hadi, Z.	Evaluation of Treated Wastewater from Constructed Wetlands for Reuse in Agriculture	constructed wetlands, wastewater treatment, water reuse, irrigation, environmental impact	19, 4, 1203-1209	https://doi.org/10.18280/ijdne.190411	Abdul Hadi, Z. (2024). Evaluation of treated wastewater from constructed wetlands for reuse in agriculture. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1203-1209. https://doi.org/10.18280/ijdne.190411
12	Llaguno, L.S.V., Cedeño, F.K.A., Andrade, M.L.V., Anneriz, C.S.B., Heredia, A.L.Q.	Comparative Evaluation of the Least Squares Method for Temperature-Based Predictive Models in Tomato Cultivation	agricultural optimization, least squares, predictive models, temperature, tomato sowing	19, 4, 1211-1222	https://doi.org/10.18280/ijdne.190412	Llaguno, L.S.V., Cedeño, F.K.A., Andrade, M.L.V., Anneriz, C.S.B., Heredia, A.L.Q. (2024). Comparative evaluation of the least squares method for temperature-based predictive models in tomato cultivation. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1211-1222. https://doi.org/10.18280/ijdne.190412
13	Abdikarimova, P.U., Kali, A., Shorin, S.S., Beisenova, R., Rakhymzhan, Z., Nugmanov, A., Myrzagalieva, A.	Bioecological Characteristics of Cossack Juniper (Juniperus Sabina) in Kazakhstan	Cossack juniper, morphological variability, anatomical features, environmental adaptation, Kazakhstan	19, 4, 1223-1230	https://doi.org/10.18280/ijdne.190413	Abdikarimova, P.U., Kali, A., Shorin, S.S., Beisenova, R., Rakhymzhan, Z., Nugmanov, A., Myrzagalieva, A. (2024). Bioecological characteristics of Cossack juniper (Juniperus sabina) in Kazakhstan. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1223-1230. https://doi.org/10.18280/ijdne.190413
14	Yatmadi, D., Kusuma, M.S.B., Muin, M., Yuanita, N., Muslim, A.B., Alam, H.N.	Sediment Transport of Cohesive Sediment in Kanal Banjir Barat Jakarta Using Non-Orthogonal Boundary Fitted Model	cohesive sediment, critical shear stress, settling velocity, Non-Orthogonal Boundary Fitted, Kanal Banjir Barat, sediment transport, numerical model	19, 4, 1231-1242	https://doi.org/10.18280/ijdne.190414	Yatmadi, D., Kusuma, M.S.B., Muin, M., Yuanita, N., Muslim, A.B., Alam, H.N. (2024). Sediment transport of cohesive sediment in Kanal Banjir Barat Jakarta using Non-Orthogonal Boundary Fitted model. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1231-1242. https://doi.org/10.18280/ijdne.190414
15	Hidayat, D.D., Hermiani, A., Sagita, D., Setiawan, R., Darniadi, S., Andriansyah, R.C.E., Rahayuningtyas, A., Widiyantara, T., Sudaryanto, A., Parikesit, A.	Optimization of Drum Drying Parameters for Chicken Egg White Flour Using Response Surface Methodology	design expert, drum drying, egg white powder, food processing, optimization, stunting prevention	19, 4, 1243-1250	https://doi.org/10.18280/ijdne.190415	Hidayat, D.D., Hermiani, A., Sagita, D., Setiawan, R., Darniadi, S., Andriansyah, R.C.E., Rahayuningtyas, A., Widiyantara, T., Sudaryanto, A., Parikesit, A. (2024). Optimization of drum drying parameters for chicken egg white flour using response surface methodology. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1243-1250. https://doi.org/10.18280/ijdne.190415
16	Ismail, N.A., Abdullah, S., Mansor, A.A., Ahmad, A.N., Ahmed, A.N., Ismail, M.	Trend and Interrelationship of PM2.5, Gaseous Pollutants and Meteorological Factors in Kuala Terengganu, Malaysia	air quality, gaseous, correlation, Terengganu, meteorological, Malaysia	19, 4, 1251-1260	https://doi.org/10.18280/ijdne.190416	Ismail, N.A., Abdullah, S., Mansor, A.A., Ahmad, A.N., Ahmed, A.N., Ismail, M. (2024). Trend and interrelationship of PM2.5, gaseous pollutants and meteorological factors in Kuala Terengganu, Malaysia. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1251-1260. https://doi.org/10.18280/ijdne.190416
17	De Guzman, J.J., Monserate, J.J., Panajon, N.M., Salazar, J.R., Eugenio, P.J.G., Sarong, M.M.	Nanoencapsulation of Lycopene from Tomato Waste Using Chitosan and Alginate for Enhanced Stability and Antioxidant Activity	lycopene, encapsulation, chitosan-alginate nanocapsules, antioxidant activity, nutraceuticals	19, 4, 1261-1267	https://doi.org/10.18280/ijdne.190417	De Guzman, J.J., Monserate, J.J., Panajon, N.M., Salazar, J.R., Eugenio, P.J.G., Sarong, M.M. (2024). Nanoencapsulation of lycopene from tomato waste using chitosan and alginate for enhanced stability and antioxidant activity. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1261-1267. https://doi.org/10.18280/ijdne.190417
18	Rozaki, Z., Kamarudin, M.F., Kiloos, A.M., Triyono, Rahmawati, N., Wibisana, D.L.	Assessing Environmental Impact and Farmers' Awareness in Irrigated and Rainfed Rice Farming for Sustainable Agriculture in Yogyakarta, Indonesia	life cycle assessment, environmental awareness, agriculture, rice farming	19, 4, 1269-1277	https://doi.org/10.18280/ijdne.190418	Rozaki, Z., Kamarudin, M.F., Kiloos, A.M., Triyono, Rahmawati, N., Wibisana, D.L. (2024). Assessing environmental impact and farmers' awareness in irrigated and rainfed rice farming for sustainable agriculture in Yogyakarta, Indonesia. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 4, pp. 1269-1277. https://doi.org/10.18280/ijdne.190418

19	Abdulmajeed, A.I., Hassan, E.A., Ibrahim, W.A.	Zinc Deficiency and Risks of Toxoplasmosis-Related Miscarriage: Impacts of Socioeconomic Factors	toxoplasmosis, zinc trace element, miscarriage women	19, 4, 1279-1284	https://doi.org/10.18280/ij dne.190419	Abdulmajeed, A.I., Hassan, E.A., Ibrahim, W.A. (2024). Zinc deficiency and risks of toxoplasmosis-related miscarriage: Impacts of socioeconomic factors. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1279-1284. https://doi.org/10.18280/ij dne.190419
20	Eliana, Yuliantini, E., Kamsiah.	Effect of Storage Temperatures on the Quality and Microbial Safety of Fish-Based Sausage Analogs: A Physical and Microbial Assessment	analog sausage, physical test, shelf life, microbial test	19, 4, 1285-1292	https://doi.org/10.18280/ij dne.190420	Eliana, Yuliantini, E., Kamsiah. (2024). Effect of storage temperatures on the quality and microbial safety of fish-based sausage analogs: A physical and microbial assessment. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1285-1292. https://doi.org/10.18280/ij dne.190420
21	Shumenova, N., Nauanova, A., Kazangapova, N., Yesmurzayeva, A., Bekenova, S.	Optimal Technological Parameters for Cultivating Trichoderma Consortia Isolated from Northern Kazakhstan Soils	Trichoderma, biofungicide, antagonistic fungi, phytopathogens, agricultural crops, Trichodermin-KZ, technological parameters, Northern Kazakhstan	19, 4, 1293-1300	https://doi.org/10.18280/ij dne.190421	Shumenova, N., Nauanova, A., Kazangapova, N., Yesmurzayeva, A., Bekenova, S. (2024). Optimal technological parameters for cultivating Trichoderma consortia isolated from Northern Kazakhstan soils. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1293-1300. https://doi.org/10.18280/ij dne.190421
22	Kleden, M.M., Hartati, E., Lestari, G.A.Y.	Influence of Concentrate Levels on Nutrient Utilization in Ongole Crossbreed Cattle Fed with Sorghum-Moringa Silage	concentrate, moringa, nutrient consumption, nutrient digestibility, Ongole crossbreed cattle, rumen fermentation, silage, sorghum	19, 4, 1301-1308	https://doi.org/10.18280/ij dne.190422	Kleden, M.M., Hartati, E., Lestari, G.A.Y. (2024). Influence of concentrate levels on nutrient utilization in Ongole crossbreed cattle fed with sorghum-moringa silage. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1301-1308. https://doi.org/10.18280/ij dne.190422
23	Warsame, Z.A., Mohamed, F.H., Hassan, M.G., Hassan, A.M., Mohamad, M.H., Nor, B.A.	Evaluating the Global Research Landscape on Renewable Energies in the Context of Climate Change: A Bibliometric Analysis	renewable energy, climate change, bibliometric analysis, Scopus database, VOSviewer	19, 4, 1309-1316	https://doi.org/10.18280/ij dne.190423	Warsame, Z.A., Mohamed, F.H., Hassan, M.G., Hassan, A.M., Mohamad, M.H., Nor, B.A. (2024). Evaluating the global research landscape on renewable energies in the context of climate change: A bibliometric analysis. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1309-1316. https://doi.org/10.18280/ij dne.190423
24	Rodriguez-Castillo, J.F., Frausto-Martinez, O.	Comprehensive Characterization of Karst Depressions in the Northwestern Yucatan Peninsula Using LiDAR and ASTER GDEM Data	coupled models, remote sensing, sinkholes, geomorphology, GIS	19, 4, 1317-1325	https://doi.org/10.18280/ij dne.190424	Rodriguez-Castillo, J.F., Frausto-Martinez, O. (2024). Comprehensive characterization of karst depressions in the northwestern Yucatan peninsula using LiDAR and ASTER GDEM data. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1317-1325. https://doi.org/10.18280/ij dne.190424
25	Ongayev, M., Montayev, S., Denizbayev, S., Sakhipova, S.	Hydrochemical Characteristics of Groundwater in Northwestern Kazakhstan Aquifers: Implications for Livestock Water Supply	West Kazakhstan region, pasture cattle rearing, pasture, pasture water supply, underground water sources, water mineralization	19, 4, 1327-1340	https://doi.org/10.18280/ij dne.190425	Ongayev, M., Montayev, S., Denizbayev, S., Sakhipova, S. (2024). Hydrochemical characteristics of groundwater in northwestern Kazakhstan aquifers: Implications for livestock water supply. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1327-1340. https://doi.org/10.18280/ij dne.190425
26	Ningsih, P., Pratiwi, N., Supriadi, Ahmar, D.S., Tiwow, V.M., Pulkadang, S.H.V., Rahmawati, S.	Quantification of Tannin in Chromolaena Odorat (Kirinyu) Leaf Extract	tannin, kirinyuh, Chromolaena odorata, UV-Vis spectrophotometer, gallic acid solution, Folin-Ciocalteu reagent	19, 4, 1341-1346	https://doi.org/10.18280/ij dne.190426	Ningsih, P., Pratiwi, N., Supriadi, Ahmar, D.S., Tiwow, V.M., Pulkadang, S.H.V., Rahmawati, S. (2024). Quantification of tannin in Chromolaena odorat (kirinyu) leaf extract. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1341-1346. https://doi.org/10.18280/ij dne.190426
27	Thabet, Z.F., Alsalam, H.A.A.A.	Evaluation the Effectiveness of Nephelium Lappaceum (NI) Peel Aqueous Extract Against Kidney Dysfunction Induced by Thioacetamide (TAA) in Male Albino Rats	antioxidant, creatinine, kidney dysfunction, male albino rats, Nephelium lappaceum (NI), oxidative stress, Thioacetamide (TAA), urea	19, 4, 1347-1353	https://doi.org/10.18280/ij dne.190427	Thabet, Z.F., Alsalam, H.A.A.A. (2024). Evaluation the effectiveness of Nephelium lappaceum (NI) peel aqueous extract against kidney dysfunction induced by Thioacetamide (TAA) in male albino rats. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1347-1353. https://doi.org/10.18280/ij dne.190427
28	Diiso, A.A., Hassan, S.A., Ali, K.A.	Assessing the Respiratory and Eye Effects of Biomass for Healthy Adult Populations in Mogadishu, Somalia	air quality, biomass burning, health impact, respiratory health, eye health, Mogadishu, sustainable energy	19, 4, 1355-1361	https://doi.org/10.18280/ij dne.190428	Diiso, A.A., Hassan, S.A., Ali, K.A. (2024). Assessing the respiratory and eye effects of biomass for healthy adult populations in Mogadishu, Somalia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1355-1361. https://doi.org/10.18280/ij dne.190428
29	Pandiangan, M., Sihombing, D.R., Simbolon, C.D., Tampubolon, S.D.R., Sitohang, A., Silalahi, J., Kaban, J., Simanullang, W.F.	Optimization of Essential Fatty Acids Via Esterification of the Native North Sumatera's Freshwater Fish	Indonesia's freshwater fish, nutritional analysis, esterification, gas chromatography (GC)	19, 4, 1363-1369	https://doi.org/10.18280/ij dne.190429	Pandiangan, M., Sihombing, D.R., Simbolon, C.D., Tampubolon, S.D.R., Sitohang, A., Silalahi, J., Kaban, J., Simanullang, W.F. (2024). Optimization of essential fatty acids via esterification of the native North Sumatera's freshwater fish. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1363-1369. https://doi.org/10.18280/ij dne.190429
30	Tampubolon, F.R.S., Djarot, I.N., Nuha, N., Handayani, T., Widyastuti, N., Rifai, A., Sitomurni, A.I., Hariyanti, J., Wijayanti, S.P., Bahua, H., Isharyadi, F., Paminto, A.K., Ariyani, N.R., Putra, A.S.	Estimating the Management of Crystal Coconut Sugar Production with Life Cycle Cost Analysis and Eco-Efficiency Indicator	crystal coconut sugar, eco-cost, Eco-Efficiency Index, energy sources, environmental impact, life cycle assessment, life cycle costing, net value, revenue	19, 4, 1371-1384	https://doi.org/10.18280/ij dne.190430	Tampubolon, F.R.S., Djarot, I.N., Nuha, N., Handayani, T., Widyastuti, N., Rifai, A., Sitomurni, A.I., Hariyanti, J., Wijayanti, S.P., Bahua, H., Isharyadi, F., Paminto, A.K., Ariyani, N.R., Putra, A.S. (2024). Estimating the management of crystal coconut sugar production with life cycle cost analysis and eco-efficiency indicator. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1371-1384. https://doi.org/10.18280/ij dne.190430
31	Ghani, E.T.A., Abdelhameed, I.M., Yaman, N.	Managing the Saline Irrigation Water to Decrease Water Gap Under Climate Changes Effects	climate change, leaching requirements, water gap, effective rainfall, saline irrigation water	19, 4, 1385-1390	https://doi.org/10.18280/ij dne.190431	Ghani, E.T.A., Abdelhameed, I.M., Yaman, N. (2024). Managing the saline irrigation water to decrease water gap under climate changes effects. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1385-1390. https://doi.org/10.18280/ij dne.190431
32	Sudarma, I.M., Wiguna, P.P.K., Djelantik, A.A.A.W.S., Wijana, I.M.S.	Mitigation and Adaptation of Chili Farmers to Climate Change in Baturiti District, Bali Province, Indonesia	adaptation, chili, climate change, drought, rainfall	19, 4, 1391-1403	https://doi.org/10.18280/ij dne.190432	Sudarma, I.M., Wiguna, P.P.K., Djelantik, A.A.A.W.S., Wijana, I.M.S. (2024). Mitigation and adaptation of chili farmers to climate change in Baturiti District, Bali Province, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1391-1403. https://doi.org/10.18280/ij dne.190432
33	Darusman, D., Munawar, A.A., Zulfahrizal, Z.	Near Infrared Spectroscopy for Rapid Prediction of Soil Organic Carbon Content in Agricultural Soils	NIRS, model, PLSR, soil classification, SOC prediction	19, 4, 1405-1413	https://doi.org/10.18280/ij dne.190433	Darusman, D., Munawar, A.A., Zulfahrizal, Z. (2024). Near infrared spectroscopy for rapid prediction of soil organic carbon content in agricultural soils. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 4, pp. 1405-1413. https://doi.org/10.18280/ij dne.190433
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40	Mujiyo, M., Lucky, Q.G., Ariyanto, D.P., Widjanto, H.	Evaluation of Soil Retention Capabilities Using RETC Application in Various Paddy Field Management Systems in Purwanto District, Indonesia	paddy field management, RETC analysis, soil water potential, soil water retention	19, 3, 723-731	https://doi.org/10.18280/ij dne.190302	Mujiyo, M., Lucky, Q.G., Ariyanto, D.P., Widjanto, H. (2024). Evaluation of soil retention capabilities using RETC application in various paddy field management systems in Purwanto District, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 3, pp. 723-731. https://doi.org/10.18280/ij dne.190302
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46	Hasanuddin, Munawar, A.A.	Distinguishing Weed Species Using Near Infrared Reflectance Spectroscopy and Principal Component Analysis	NIRS, weed species classification, PCA, spectral analysis, biodiversity conservation	19, 3, 779-785	https://doi.org/10.18280/ij dne.190308	Hasanuddin, Munawar, A.A. (2024). Distinguishing weed species using near infrared reflectance spectroscopy and principal component analysis. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 3, pp. 779-785. https://doi.org/10.18280/ij dne.190308
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67	Ahmad, H.S., Noman, S.J.	Investigating the Impact of C. krusei and Chitosan Treatment on Liver and Kidney Function: A Comprehensive Study	yeast infection by Candida krusei, chitosan treatment, functions of kidneys and liver, histological changes in liver and kidneys, levels of blood glucose, protein metabolism and drug resistance by fungus	19, 3, 997-1006	https://doi.org/10.18280/ij dne.190329	Ahmad, H.S., Noman, S.J. (2024). Investigating the impact of C. krusei and chitosan treatment on liver and kidney function: A comprehensive study. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 3, pp. 997-1006. https://doi.org/10.18280/ij dne.190329
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84	Umrah, U., Yusran, Y., Suwastika, I.N., Asrul, A., Yuliana, Y., Anugrah, D.S.	Effectiveness of Liquid <i>Trichoderma</i> spp. Formulation as Biopesticides Against <i>Phytophthora palmivora</i> and <i>Oncobasidium theobromae</i> in Cocoa Plants (<i>Theobroma cocoa</i> L.)	biocontrol, density, <i>Trichoderma</i> spp., <i>Phytophthora palmivora</i> , <i>Oncobasidium theobromae</i> , extract of soybean (ES) and coconut water (CW), <i>Theobroma cocoa</i> L.)	19, 2, 425-432	https://doi.org/10.18280/ijdne.190208	Umrah, U., Yusran, Y., Suwastika, I.N., Asrul, A., Yuliana, Y., Anugrah, D.S. (2024). Effectiveness of liquid <i>Trichoderma</i> spp. formulation as biopesticides against <i>Phytophthora palmivora</i> and <i>Oncobasidium theobromae</i> in Cocoa Plants (<i>Theobroma cocoa</i> L.). <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 2, pp. 425-432. https://doi.org/10.18280/ijdne.190208
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86	Irfan, U.R., Hasrianto, Imran, A.M., Maulana, A., Pachri, H.	Integrative Geophysical Approach for Enhanced Iron Ore Detection: Optimizing Geoelectrical and Geomagnetic Methods	geoelectrical surveys, geomagnetic anomalies, subsurface characterization, mineral exploration optimization, integrated geophysical methods, iron ore prospecting	19, 2, 441-449	https://doi.org/10.18280/ijdne.190210	Irfan, U.R., Hasrianto, Imran, A.M., Maulana, A., Pachri, H. (2024). Integrative geophysical approach for enhanced iron ore detection: Optimizing geoelectrical and geomagnetic methods. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 2, pp. 441-449. https://doi.org/10.18280/ijdne.190210
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97	Abdulzakra, G.N., Al Greiza, A.A.H.	The Coexistence of Opposites in Contemporary Architecture	contemporary architectural practice, architectural text, opposites, dialectics, coexistence	19, 2, 553-561	https://doi.org/10.18280/ijdne.190221	Abdulzakra, G.N., Al Greiza, A.A.H. (2024). The coexistence of opposites in contemporary architecture. International Journal of Design & Nature and Ecodynamics, Vol. 19, No. 2, pp. 553-561. https://doi.org/10.18280/ijdne.190221
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112	Setyawan, E.Y.	Characteristics of Wood Pellets from Sengon Tree (Albizia Chinensis) Waste Materials for Eco-Friendly Fuel	wood pellets, Sengon wood, biomass, renewable energy	19, 2, 691-697	https://doi.org/10.18280/ij dne.190236	Setyawan, E.Y. (2024). Characteristics of wood pellets from Sengon tree (Albizia Chinensis) waste materials for eco-friendly fuel. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 2, pp. 691-697. https://doi.org/10.18280/ij dne.190236
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114	Hussein, H.T., Radhi, I.M.	Effects of Nano-Silicon Spraying on Physiological Parameters of Bean Varieties Under Saline Stress Conditions	peroxidase enzyme, catalase enzyme, leaf area, proline, chlorophyll	19, 2, 705-711	https://doi.org/10.18280/ij dne.190238	Hussein, H.T., Radhi, I.M. (2024). Effects of nano-silicon spraying on physiological parameters of bean varieties under saline stress conditions. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 2, pp. 705-711. https://doi.org/10.18280/ij dne.190238
115	Alaydrus, A.T., Susilo, A., Naba, A., Minardi, S., Azhari, A.P.	Investigation of Seawater Intrusion in Mandalika, Lombok, Indonesia Using Time-Lapse Geoelectrical Resistivity Survey	aquifer, electrical resistivity, conductivity, Mandalika, geochemistry	19, 1, 1-11	https://doi.org/10.18280/ij dne.190101	Alaydrus, A.T., Susilo, A., Naba, A., Minardi, S., Azhari, A.P. (2024). Investigation of seawater intrusion in Mandalika, Lombok, Indonesia using time-lapse geoelectrical resistivity survey. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 1, pp. 1-11. https://doi.org/10.18280/ij dne.190101
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119	Juanda, Hartuti, S.	Sensory Analysis of Butterfly Pea (Clitoria ternatea L.) Flower Tea Drink Using Central Composite Design	clitoria, ternatea, sensory, colour, aroma, taste, aftertaste, CCD	19, 1, 41-47	https://doi.org/10.18280/ij dne.190105	Juanda, Hartuti, S. (2024). Sensory analysis of butterfly pea (Clitoria ternatea L.) flower tea drink using central composite design. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 1, pp. 41-47. https://doi.org/10.18280/ij dne.190105
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122	Agustina, R., Hayati, R., Hasanuddin, H., Fadhil, R.	Assessment of Pliek-U Sensory Attributes: A Multi-Objective Optimization on the Basis of Ratio Analysis (MOORA) Method Application	Pliek-U, sensory, multi-criteria, MOORA method, hedonic scale	19, 1, 61-67	https://doi.org/10.18280/ij dne.190108	Agustina, R., Hayati, R., Hasanuddin, H., Fadhil, R. (2024). Assessment of Pliek-U sensory attributes: A Multi-Objective Optimization on the Basis of Ratio Analysis (MOORA) method application. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 1, pp. 61-67. https://doi.org/10.18280/ij dne.190108
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143	Ramlah, S., Ihsan, M., Yusran, Y.	Avian Species Diversity in Oil Palm Plantations in Buol District, Central Sulawesi, Indonesia	avians, species diversity, palm oil plantation, endemic Sulawesi, Central Sulawesi	19, 1, 267-273	https://doi.org/10.18280/ij dne.190129	Ramlah, S., Ihsan, M., Yusran, Y. (2024). Avian species diversity in oil palm plantations in Buol District, Central Sulawesi, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 1, pp. 267-273. https://doi.org/10.18280/ij dne.190129
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152	Jabar, T.E., Abdulahaad, S.E.	Greening Conservation Buildings in Light of Contemporary Technology: The Iraqi Conservation Experience	green conservation, Iraqi green blog, green conservation indicators, sustainable development, heritage buildings	19, 1, 343-355	https://doi.org/10.18280/ijdne.190138	Jabar, T.E., Abdulahaad, S.E. (2024). Greening conservation buildings in light of contemporary technology: The Iraqi conservation experience. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 19, No. 1, pp. 343-355. https://doi.org/10.18280/ijdne.190138
153	Assylbek, A., Rakhimova, Y., Sypabekkyzy, G., Kyzmetova, L., Dzhunuskanova, B.	Antagonistic Activity of Trichoderma Strains Isolated from Southeast Kazakhstan Soils Against Phytopathogenic Fungi and Their Effects on Pea Growth	Trichoderma, antagonistic activity, Kungei Alatau, phytopathogen, rhizosphere, soil fungus, strain	18, 6, 1279-1290	https://doi.org/10.18280/ijdne.180601	Assylbek, A., Rakhimova, Y., Sypabekkyzy, G., Kyzmetova, L., Dzhunuskanova, B. (2023). Antagonistic activity of Trichoderma strains isolated from southeast Kazakhstan soils against phytopathogenic fungi and their effects on pea growth. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1279-1290. https://doi.org/10.18280/ijdne.180601
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160	Jaafar, Q.N., Sayl, K.N., Kamel, A.H.	Modeling the Effects of River Training Works on the Hydraulic Properties of Euphrates River Cross-Sections Using HEC-RAS	river training, HEC-RAS, water, sediment, sediment transport, river morphology, flood management	18, 6, 1355-1362	https://doi.org/10.18280/ijdne.180608	Jaafar, Q.N., Sayl, K.N., Kamel, A.H. (2023). Modeling the effects of river training works on the hydraulic properties of Euphrates River cross-sections using HEC-RAS. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1355-1362. https://doi.org/10.18280/ijdne.180608
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162	Khumalo, S.M., Bakare, B.F., Rathilal, S.	Optimization of Ciprofloxacin Sorption on Chitosan-Carbon Nanotube Composite Using Response Surface Methodology: Process Variables and Affinity Evaluation	ciprofloxacin, central composite design, pH, chitosan, carbon nanotubes, response surface methodology, sorption, optimization, wastewater treatment	18, 6, 1371-1380	https://doi.org/10.18280/ijdne.180610	Khumalo, S.M., Bakare, B.F., Rathilal, S. (2023). Optimization of ciprofloxacin sorption on chitosan-carbon nanotube composite using response surface methodology: Process variables and affinity evaluation. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1371-1380. https://doi.org/10.18280/ijdne.180610

163	Trigunasih, N.M., Narka, I.W., Saifulloh, M.	Measurement of Soil Chemical Properties for Mapping Soil Fertility Status	soil fertility, soil chemical, watershed, agriculture land management, spatial analyst	18, 6, 1381-1390	https://doi.org/10.18280/ij dne.180611	Trigunasih, N.M., Narka, I.W., Saifulloh, M. (2023). Measurement of soil chemical properties for mapping soil fertility status. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1381-1390. https://doi.org/10.18280/ij dne.180611
164	Kenenbayev, S., Yessenbayeva, G., Zhanbyrbayev, Y., Bektureganov, A., Durbayev, Y., Toktay, H.	Influence of Climate Conditions and Biofertilizers on Soybean Yield in Southeastern Kazakhstan	abiotic factors, biofertilizers, climate influence, nitrogen-fixing microorganisms, plant structure, soybean, soybean yield	18, 6, 1391-1398	https://doi.org/10.18280/ij dne.180612	Kenenbayev, S., Yessenbayeva, G., Zhanbyrbayev, Y., Bektureganov, A., Durbayev, Y., Toktay, H. (2023). Influence of climate conditions and biofertilizers on soybean yield in Southeastern Kazakhstan. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1391-1398. https://doi.org/10.18280/ij dne.180612
165	Korja, I.N., Mallombasang, S.N., Naharuddin, N., Yusran, Y., Rukmi, R., Yusrin, H.	Invasive Plants Species Diversity in Nanggala III Nature Tourism Park of Palopo City, South Sulawesi, Indonesia	diversity, invasive plant, nature tourism park, important value index	18, 6, 1399-1405	https://doi.org/10.18280/ij dne.180613	Korja, I.N., Mallombasang, S.N., Naharuddin, N., Yusran, Y., Rukmi, R., Yusrin, H. (2023). Invasive plants species diversity in Nanggala III Nature Tourism Park of Palopo City, South Sulawesi, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1399-1405. https://doi.org/10.18280/ij dne.180613
166	Al Chalabi, A.S., Naeem, S.M., Alkhafaji, R.J.	Water Quality Index (WQI) for Main Water Treatment Plants in Basra City, Iraq	Basra city, Shatt Al-Arab River, water quality parameters, water treatment plant, WQI	18, 6, 1407-1416	https://doi.org/10.18280/ij dne.180614	Al Chalabi, A.S., Naeem, S.M., Alkhafaji, R.J. (2023). Water Quality Index (WQI) for main water treatment plants in Basra City, Iraq. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1407-1416. https://doi.org/10.18280/ij dne.180614
167	Bayazitova, Z., Kurmanbayeva, A., Kakabayev, A., Belgibayeva, A., Baidalin, M., Bogapov, I.	Impacts of Anaerobic Thermophilic Fermentation on Physicochemical Characteristics of Effluents Derived from Diverse Organic Feedstocks	agricultural waste, anaerobic digestion, effluent, organic fertilizer, soil fertility, thermophilic fermentation	18, 6, 1417-1425	https://doi.org/10.18280/ij dne.180615	Bayazitova, Z., Kurmanbayeva, A., Kakabayev, A., Belgibayeva, A., Baidalin, M., Bogapov, I. (2023). Impacts of anaerobic thermophilic fermentation on physicochemical characteristics of effluents derived from diverse organic feedstocks. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1417-1425. https://doi.org/10.18280/ij dne.180615
168	Darmajana, D.A., Sagita, D., Wulandari, N.	Influence of Bamboo Shoots (<i>Dendrocalamus asper</i>) Flour Addition and Baking Temperatures on the Sensory and Physical Characteristics of Cookies	baking temperature, bamboo, cookies, functional foods, sensory analysis	18, 6, 1427-1434	https://doi.org/10.18280/ij dne.180616	Darmajana, D.A., Sagita, D., Wulandari, N. (2023). Influence of bamboo shoots (<i>Dendrocalamus asper</i>) flour addition and baking temperatures on the sensory and physical characteristics of cookies. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1427-1434. https://doi.org/10.18280/ij dne.180616
169	Zakariah, M.A., Hasma, H., Mauliah, F.U.	Influence of Varied Organic Carbon Sources on Cow Dung Compost Quality: A Comprehensive Meta-Analysis	composting, cow dung, organic carbon, agricultural waste, soil quality, meta-analysis, hedges effect size, pH, nitrogen content, SNI standard	18, 6, 1435-1441	https://doi.org/10.18280/ij dne.180617	Zakariah, M.A., Hasma, H., Mauliah, F.U. (2023). Influence of varied organic carbon sources on cow dung compost quality: A comprehensive meta-analysis. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1435-1441. https://doi.org/10.18280/ij dne.180617
170	Abdulqader Alchalabi, O.Q.	The Rules of Recycled Interior Design and Its Effects on the Spaces' Value in Shopping Centers	reused material, industrial interior design, recycled objects, sustainable furniture	18, 6, 1443-1451	https://doi.org/10.18280/ij dne.180618	Abdulqader Alchalabi, O.Q. (2023). The rules of recycled interior design and its effects on the spaces' value in shopping centers. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1443-1451. https://doi.org/10.18280/ij dne.180618
171	Asmarahman, C., Surnayanti, Indriyanto, Tsani, M.K., Santoso, T.	Productivity and Constraint in Multipurpose Tree Species Cultivation: A Case Study from Cilimus Village, Wan Abdul Rachman Forest Park, Indonesia	Cilimus Village, multi-purpose tree species, productivity	18, 6, 1453-1458	https://doi.org/10.18280/ij dne.180619	Asmarahman, C., Surnayanti, Indriyanto, Tsani, M.K., Santoso, T. (2023). Productivity and constraint in multipurpose tree species cultivation: A case study from Cilimus Village, Wan Abdul Rachman Forest Park, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1453-1458. https://doi.org/10.18280/ij dne.180619
172	Sagynbayeva, A., Mambetov, B., Kalachev, A., Boranbay, Z., Borissenko, Y., Baigazakova, Z., Turlybekov, K.	Assessing Pine Forest Restoration Post-Fire Using NDVI and GIS Technologies	forest fires, GIS, Normalized Difference Vegetation Index (NDVI), remote sensing, restoration	18, 6, 1459-1467	https://doi.org/10.18280/ij dne.180620	Sagynbayeva, A., Mambetov, B., Kalachev, A., Boranbay, Z., Borissenko, Y., Baigazakova, Z., Turlybekov, K. (2023). Assessing pine forest restoration post-fire using NDVI and GIS technologies. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1459-1467. https://doi.org/10.18280/ij dne.180620
173	Yulius, H., Dewata, I., Heldi, Putra, A.	Designing Eco-Friendly Kambuik Shopping Bags: A Quality Function Deployment Approach	plastic alternative, shopping bag, eco-friendly, sustainability, product design	18, 6, 1469-1474	https://doi.org/10.18280/ij dne.180621	Yulius, H., Dewata, I., Heldi, Putra, A. (2023). Designing eco-friendly Kambuik shopping bags: A quality function deployment approach. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1469-1474. https://doi.org/10.18280/ij dne.180621
174	Amalina, D.D., Sudadi, Pratama, N.M., Dewi, W.S., Hadiwiyono, Minardi, S., Suga, H.	Enhancing Melon Growth and Nutrient Uptake with Plant-Growth-Promoting Microorganisms from <i>Cucumis melo</i>	plant growth-promoting microorganisms, rhizosphere, sustainable farming, <i>Cucumis melo</i> , <i>Bacillus cereus</i> , <i>Pseudochrobactrum</i> sp., <i>Trametes polyzona</i>	18, 6, 1475-1484	https://doi.org/10.18280/ij dne.180622	Amalina, D.D., Sudadi, Pratama, N.M., Dewi, W.S., Hadiwiyono, Minardi, S., Suga, H. (2023). Enhancing melon growth and nutrient uptake with plant-growth-promoting microorganisms from <i>Cucumis melo</i> . <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1475-1484. https://doi.org/10.18280/ij dne.180622
175	Darwin, Bulan, R., Hapirayani, Muliawati, A., Faradilla, Imanda, A.I., Kaban, M.B.	Carbohydrate Enrichment in In-Vitro Civet Coffee Fermentation: Impact on Arabica Coffee Beans	in-vitro fermentation, decaffeination, coffee cherries, civet coffee, sugar degradation	18, 6, 1485-1492	https://doi.org/10.18280/ij dne.180623	Darwin, Bulan, R., Hapirayani, Muliawati, A., Faradilla, Imanda, A.I., Kaban, M.B. (2023). Carbohydrate enrichment in in-vitro civet coffee fermentation: Impact on Arabica coffee beans. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1485-1492. https://doi.org/10.18280/ij dne.180623
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177	Saputra, H., Susastriawan, A.A.P., Rahayu, S.S.	Development and Performance Evaluation of an Eco-Friendly Rotary Drum Roasting Machine for Maggot Processing Using Biomass Energy	biomass, design, energy, maggot roasting, rotary, roasting machine	18, 6, 1503-1508	https://doi.org/10.18280/ij dne.180625	Saputra, H., Susastriawan, A.A.P., Rahayu, S.S. (2023). Development and performance evaluation of an eco-friendly rotary drum roasting machine for maggot processing using biomass energy. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1503-1508. https://doi.org/10.18280/ij dne.180625
178	Triharyanto, E., Setyaningrum, D., Santoso, R.N.	Promoting Flowering and Yield in Indonesian Shallot Varieties Through the Application of Gibberellins	flowering percentage, GA3, GA4, Indonesia, planting material, shallot varieties	18, 6, 1509-1515	https://doi.org/10.18280/ij dne.180626	Triharyanto, E., Setyaningrum, D., Santoso, R.N. (2023). Promoting flowering and yield in Indonesian shallot varieties through the application of gibberellins. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1509-1515. https://doi.org/10.18280/ij dne.180626
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180	Alfizar, A., Resdiar, A., Putra, I., Bustamam, H., Bessania, M.A., Syaokani, S.	Efficacy of <i>Trichoderma asperellum</i> and <i>Pseudomonas aeruginosa</i> Metabolites Against Fusarium Wilt in Bananas	banana, fusarium, <i>trichoderma asperellum</i> , <i>pseudomonas aeruginosa</i> , metabolites	18, 6, 1525-1532	https://doi.org/10.18280/ij dne.180628	Alfizar, A., Resdiar, A., Putra, I., Bustamam, H., Bessania, M.A., Syaokani, S. (2023). Efficacy of <i>Trichoderma asperellum</i> and <i>Pseudomonas aeruginosa</i> metabolites against Fusarium wilt in bananas. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 6, pp. 1525-1532. https://doi.org/10.18280/ij dne.180628

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184	Carlo, G., Ferruccio, T.	Production of Biomethane by Hydrogenation of CO ₂ and CO	biomethane, methane, catalysis, water, microorganisms, CO ₂ hydrogenation, green H ₂ , pyrolysis	18, 5, 1027-1032	https://doi.org/10.18280/ijdne.180502	Carlo, G., Ferruccio, T. (2023). Production of biomethane by hydrogenation of CO ₂ and CO. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1027-1032. https://doi.org/10.18280/ijdne.180502
185	Ketut Sardiana, I., Wiguna, P.P.K.	Evaluating Spatial Data Infrastructure for Subak Management in Tabanan Regency, Bali, Indonesia	Subak, Spatial data infrastructure, web GIS	18, 5, 1033-1043	https://doi.org/10.18280/ijdne.180503	Ketut Sardiana, I., Wiguna, P.P.K. (2023). Evaluating spatial data infrastructure for Subak management in Tabanan Regency, Bali, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1033-1043. https://doi.org/10.18280/ijdne.180503
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187	Ali, S.	Toxic Effects of Parathion Pesticide on Haematological and Biochemical Parameters in Freshwater: Fish <i>Barbus Luteus</i> (H)	pesticide, <i>Barbus Luteus</i> fish, blood parameters, sub lethal effect, parathion	18, 5, 1055-1060	https://doi.org/10.18280/ijdne.180505	Ali, S. (2023). Toxic effects of parathion pesticide on haematological and biochemical parameters in freshwater: Fish <i>Barbus Luteus</i> (H). <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1055-1060. https://doi.org/10.18280/ijdne.180505
188	Mohammad, A.H., Ghanem, M., de la Hera Portillo, Á., Lafouhi, N.E.	Sustainable Water Management for Azraq Geopark: Enhancing Environmental Sustainability and Geotourism	geoparks, geotourism, water resources, sustainability, Multiple Influencing Factor (MIF) technique, Managed Aquifer Recharge (MAR), water storage techniques	18, 5, 1061-1067	https://doi.org/10.18280/ijdne.180506	Mohammad, A.H., Ghanem, M., de la Hera Portillo, Á., Lafouhi, N.E. (2023). Sustainable water management for Azraq Geopark: Enhancing environmental sustainability and geotourism. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1061-1067. https://doi.org/10.18280/ijdne.180506
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194	Abdulhaad, E.S., Ra'ouf, Z.H., Hasan, V.A.A.B.M.	Reconsidering the Transparency of Contemporary Architecture and Sustainability Through Development of Glass Technology	sustainable architecture, smart glass, double facades, energy efficiency, daylighting	18, 5, 1111-1119	https://doi.org/10.18280/ijdne.180512	Abdulhaad, E.S., Ra'ouf, Z.H., Hasan, V.A.A.B.M. (2023). Reconsidering the transparency of contemporary architecture and sustainability through development of glass technology. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1111-1119. https://doi.org/10.18280/ijdne.180512
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196	Herrera-Franco, G., Sánchez-Arizo, V., Escandón-Panchana, P., Caicedo-Potosí, J., Jaya-Montalvo, M., Zambrano-Mendoza, J.	Analysis of Scientific Contributions to Agricultural Development and Food Security in Ecuador	scientific research, universities, agriculture, research trends, scientometric analysis, Ecuador	18, 5, 1129-1139	https://doi.org/10.18280/ijdne.180514	Herrera-Franco, G., Sánchez-Arizo, V., Escandón-Panchana, P., Caicedo-Potosí, J., Jaya-Montalvo, M., Zambrano-Mendoza, J. (2023). Analysis of scientific contributions to agricultural development and food security in Ecuador. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1129-1139. https://doi.org/10.18280/ijdne.180514
197	Ali Al-Rawi, K.M., Al-Dabbagh, A.H.	Analysis of Spatial Considerations in Norman Foster's Architectural Design: A Case Study of Three Museums	spatial organization, layering, museum architecture, building analysis, architectural trends	18, 5, 1141-1150	https://doi.org/10.18280/ijdne.180515	Ali Al-Rawi, K.M., Al-Dabbagh, A.H. (2023). Analysis of spatial considerations in Norman Foster's architectural design: A case study of three museums. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1141-1150. https://doi.org/10.18280/ijdne.180515
198	Iriany, A., Prihartini, I., Zakia, A., Mahmudi, Septia, E.D., Farahdina, F.A.R., Hasanah, F.	Effects of Different Bioactivator Rates on Growth, Yield and Soil Properties of Two Rice Varieties in Indonesia	bioactivator, biofertilizer, soil fertility, sustainable agriculture	18, 5, 1151-1157	https://doi.org/10.18280/ijdne.180516	Iriany, A., Prihartini, I., Zakia, A., Mahmudi, Septia, E.D., Farahdina, F.A.R., Hasanah, F. (2023). Effects of different bioactivator rates on growth, yield and soil properties of two rice varieties in Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1151-1157. https://doi.org/10.18280/ijdne.180516

199	Jariyapong, M., Roongtawanreongsri, S., Sombonsuke, B.	Estimating the Economic Value of Carbon Sequestration by Sago Palm (Metroxylon sagu Rottb.) in Thailand	biomass increment, carbon sequestration, climate change mitigation, converted wetland, ecosystem services, peatland, regulating services, soil organic carbon (SOC) stock	18, 5, 1159-1167	https://doi.org/10.18280/ij dne.180517	Jariyapong, M., Roongtawanreongsri, S., Sombonsuke, B. (2023). Estimating the economic value of carbon sequestration by sago palm (Metroxylon sagu Rottb.) in Thailand. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1159-1167. https://doi.org/10.18280/ij dne.180517
200	Bastidas, J.V., Moreira, A.F.M., Bayas, B.W.O., Briones-Bitar, J.	Cocoa Mucilage: A Novel Substrate for Fermented Tea-Based Beverages	cocoa mucilage, fermented beverage, microorganisms, SCOBY, Kombucha, sustainability, sensory analysis	18, 5, 1169-1178	https://doi.org/10.18280/ij dne.180518	Bastidas, J.V., Moreira, A.F.M., Bayas, B.W.O., Briones-Bitar, J. (2023). Cocoa mucilage: A novel substrate for fermented tea-based beverages. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1169-1178. https://doi.org/10.18280/ij dne.180518
201	Ichsan, C.N., Munawar, A.A., Erida, G., Juliawati, Hayati, M.	Mitigation of Salinity and Drought with Soil Amendments for Sustainable of Rice Production	nutrient uptake, mycorrhiza, leave rolling score	18, 5, 1179-1187	https://doi.org/10.18280/ij dne.180519	Ichsan, C.N., Munawar, A.A., Erida, G., Juliawati, Hayati, M. (2023). Mitigation of salinity and drought with soil amendments for sustainable of rice production. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1179-1187. https://doi.org/10.18280/ij dne.180519
202	Yulianto, Julinawati, Fathana, H., Rahmi.	Fabrication and Characterization of Chitosan Film Incorporated with ZnO and Patchouli Oil for Food Packaging	chitosan film, ZnO, patchouli oil, antibacterial, food packaging	18, 5, 1189-1194	https://doi.org/10.18280/ij dne.180520	Yulianto, Julinawati, Fathana, H., Rahmi. (2023). Fabrication and characterization of chitosan film incorporated with ZnO and patchouli oil for food packaging. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1189-1194. https://doi.org/10.18280/ij dne.180520
203	Mohammed, I.J., Abbawi, R.F.N., Hasan, N.A.	Exploring Cultural Landscape Values in Riverfront Development: An Examination of the Shatt Al-Arab Riverfront in Basra, Iraq	cultural landscape values, riverfront urban development, cultural urban landscapes, Basra, Iraq, Shatt al-Arab corniche	18, 5, 1195-1205	https://doi.org/10.18280/ij dne.180521	Mohammed, I.J., Abbawi, R.F.N., Hasan, N.A. (2023). Exploring cultural landscape values in riverfront development: An examination of the Shatt al-Arab riverfront in Basra, Iraq. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1195-1205. https://doi.org/10.18280/ij dne.180521
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205	Abdul, F.R., Hussein, M.T.A., Jaafar, F.N.	Immunological Response in Asthmatic Patients: The Role of Iron Oxide Nanoparticles Against Klebsiella pneumoniae	asthma, K. pneumoniae, immunoglobulin E, interleukin, iron oxide nanoparticle	18, 5, 1215-1222	https://doi.org/10.18280/ij dne.180523	Abdul, F.R., Hussein, M.T.A., Jaafar, F.N. (2023). Immunological response in asthmatic patients: The role of iron oxide nanoparticles against Klebsiella pneumoniae. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1215-1222. https://doi.org/10.18280/ij dne.180523
206	Azni, U.S., Alfitri, Yunindyawati, Riswani, Pellizzoni, L.	Adaptive Capacity of Indonesian Peatland Communities Facing Resource Loss and Fires Threats: Studies on Purun (Eleocharis dulcis) Craftsmen	adaptive capacity, tropical peatlands, livelihood transitions	18, 5, 1223-1228	https://doi.org/10.18280/ij dne.180524	Azni, U.S., Alfitri, Yunindyawati, Riswani, Pellizzoni, L. (2023). Adaptive capacity of Indonesian peatland communities facing resource loss and fires threats: Studies on Purun (Eleocharis dulcis) craftsmen. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1223-1228. https://doi.org/10.18280/ij dne.180524
207	Kadhim, K.F., Ali, F.G., Al-Hawash, A.B., Rashid, D.T.	Evaluation and Characterization of Lipase Production in Aspergillus niger Isolate Qurna for Biotechnological Applications	Aspergillus niger, lipase, local, Qurna, biotechnological applications	18, 5, 1229-1234	https://doi.org/10.18280/ij dne.180525	Kadhim, K.F., Ali, F.G., Al-Hawash, A.B., Rashid, D.T. (2023). Evaluation and characterization of lipase production in Aspergillus niger isolate Qurna for biotechnological applications. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1229-1234. https://doi.org/10.18280/ij dne.180525
208	Ilham, N., Sumaryanto, Azis, M., Syahyuti, Anwar, K., Sudaryanto, T., Gunawan, E., Ariningsih, E., Saptana, Ashari, Pasaribu, S.M., Suharyono, S.	Technical Efficiency of Local Rice Farming in Tidal Swamp Areas of Central Kalimantan, Indonesia: Determinants and Implications	tidal swamp, central Kalimantan, local rice variety, local wisdom, stochastic frontier production, technical inefficiency	18, 5, 1235-1245	https://doi.org/10.18280/ij dne.180526	Ilham, N., Sumaryanto, Azis, M., Syahyuti, Anwar, K., Sudaryanto, T., Gunawan, E., Ariningsih, E., Saptana, Ashari, Pasaribu, S.M., Suharyono, S. (2023). Technical efficiency of local rice farming in tidal swamp areas of Central Kalimantan, Indonesia: Determinants and implications. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1235-1245. https://doi.org/10.18280/ij dne.180526
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210	Al-Falahi, H.A., Jabir, F.A., Al-Dahhan, M.H.	Soil Adsorption of Heavy Metals to Protect Groundwater Near Refinery Wastewater Discharge Points	heavy metals concentration attenuation, soil sorption, heavy metal competitive adsorption	18, 5, 1255-1260	https://doi.org/10.18280/ij dne.180528	Al-Falahi, H.A., Jabir, F.A., Al-Dahhan, M.H. (2023). Soil adsorption of heavy metals to protect groundwater near refinery wastewater discharge points. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1255-1260. https://doi.org/10.18280/ij dne.180528
211	Harianto, S.P., Tsani, M.K., Arioen, R., Zuhelmi, T.P., Surnayanti.	Perceptions of Marine Tourism in Lampung Bay's Small Islands: A Comparative Study	amenities, ecotourism, facilities, island tourism, Pasaran Island, Permata Island, tourist access, tourist perception	18, 5, 1261-1271	https://doi.org/10.18280/ij dne.180529	Harianto, S.P., Tsani, M.K., Arioen, R., Zuhelmi, T.P., Surnayanti. (2023). Perceptions of marine tourism in Lampung Bay's small islands: A comparative study. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1261-1271. https://doi.org/10.18280/ij dne.180529
212	Budiastuti, M.T.S., Setyaningrum, D., Purnomo, D., Wahidurromdloni, F., Supriyono, Pujiasmanto, B.	Effectiveness of Peanut Green Manure on Root Growth and Corn Yield in Alfisol Soil	zea mays, arachis hypogaea, nutrient uptake, soil quality, inorganic fertilizer, organic fertilizer	18, 5, 1273-1278	https://doi.org/10.18280/ij dne.180530	Budiastuti, M.T.S., Setyaningrum, D., Purnomo, D., Wahidurromdloni, F., Supriyono, Pujiasmanto, B. (2023). Effectiveness of peanut green manure on root growth and corn yield in Alfisol soil. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 5, pp. 1273-1278. https://doi.org/10.18280/ij dne.180530
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216	Nnochiri, E.S., Okokpujie, I.P., Tartibu, L.K.	Experimental Analysis of the Strength and Microstructural Effects of Rice Husk Ash and Bamboo Leaf Ash on Cement-Treated Lateritic Soil	Atterberg limits, bamboo leaf ash, California bearing ratio, lateritic soil, mechanical test, rice husk ash	18, 4, 783-789	https://doi.org/10.18280/ij dne.180404	Nnochiri, E.S., Okokpujie, I.P., Tartibu, L.K. (2023). Experimental analysis of the strength and microstructural effects of rice husk ash and bamboo leaf ash on cement-treated lateritic soil. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 783-789. https://doi.org/10.18280/ij dne.180404

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219	Tjahjana, D.D.D.P., Suyitno, Rachmanto, R.A., Juwana, W.E., Prasajo, Y.J., Prasetyo, S.D., Arifin, Z.	Economic Feasibility of a PV-Wind Hybrid Microgrid System for Off-Grid Electrification in Papua, Indonesia	Hybrid Renewable Energy System (HRES), Hybrid Optimization Model for Electric Renewable (HOMER), PV-wind turbine hybrid system, Net Present Cost (NPC), microgrid, electrification, renewable energy	18, 4, 811-818	https://doi.org/10.18280/ijdne.180407	Tjahjana, D.D.D.P., Suyitno, Rachmanto, R.A., Juwana, W.E., Prasajo, Y.J., Prasetyo, S.D., Arifin, Z. (2023). Economic feasibility of a PV-wind hybrid microgrid system for off-grid electrification in Papua, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 811-818. https://doi.org/10.18280/ijdne.180407
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221	Wahid, A., Susilo, A., Sianturi, H.L., Wiyono.	Investigating Land Use and Karst Disaster Mitigation through Geoelectric and Magnetotelluric Methods: A Case Study in Sendang Biru, Malang, Indonesia	karst aquifer, geoelectric, limestone	18, 4, 831-840	https://doi.org/10.18280/ijdne.180409	Wahid, A., Susilo, A., Sianturi, H.L., Wiyono. (2023). Investigating land use and karst disaster mitigation through geoelectric and magnetotelluric methods: A case study in Sendang Biru, Malang, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 831-840. https://doi.org/10.18280/ijdne.180409
222	Akbayeva, L., Mukanova, K., Beisenova, R., Tazitdinova, R., Kobetaeva, N.	Environmental Impact Assessment of Rice Growing in the Kyzylorda Region	rice, water resources, greenhouse gases, pesticides, heavy metals	18, 4, 841-847	https://doi.org/10.18280/ijdne.180410	Akbayeva, L., Mukanova, K., Beisenova, R., Tazitdinova, R., Kobetaeva, N. (2023). Environmental impact assessment of rice growing in the Kyzylorda region. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 841-847. https://doi.org/10.18280/ijdne.180410
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224	Mahmood, A.Y., Khalil, A.A.	Shell Foundation Configuration and Geotechnical Behavior (A Review)	thin shell foundation, concrete shells, shell efficiency, bearing capacity	18, 4, 861-868	https://doi.org/10.18280/ijdne.180412	Mahmood, A.Y., Khalil, A.A. (2023). Shell foundation configuration and geotechnical behavior (A review). <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 861-868. https://doi.org/10.18280/ijdne.180412
225	AL-Saigh, M., Mahmoud, K.F.	Modeling an Interactive Interior Design Mechanism, Depending on the User's Desires	interactive architecture, interactive interior design, smart interactive materials, color-change materials, thermochromic pigments, modeling, soft-ware mechanism	18, 4, 869-875	https://doi.org/10.18280/ijdne.180413	AL-Saigh, M., Mahmoud, K.F. (2020). Modeling an interactive interior design mechanism, depending on the user's desires. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 869-875. https://doi.org/10.18280/ijdne.180413
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227	Asenov, A., Sadykova, D., Kunakbayev, A., Iliyaskyzy, M., Rizbekova, A.	Enhancing Alfalfa Productivity with Tuber: Associated and Cellulolytic Bacteria in the Aral Sea Region	legumes, symbiotic bacteria, crop yield, photosynthesis, agriculture, alfalfa	18, 4, 885-892	https://doi.org/10.18280/ijdne.180415	Asenov, A., Sadykova, D., Kunakbayev, A., Iliyaskyzy, M., Rizbekova, A. (2023). Enhancing alfalfa productivity with tuber: Associated and cellulolytic bacteria in the Aral Sea region. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 885-892. https://doi.org/10.18280/ijdne.180415
228	Younus, S.	The Effect of Nano Insulating Materials on the Thermal Performance of Residential Apartments	nanotechnology, thermal performance, Nano scale insulating materials, energy efficiency, thermal efficiency	18, 4, 893-903	https://doi.org/10.18280/ijdne.180416	Younus, S. (2023). The effect of nano insulating materials on the thermal performance of residential apartments. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 893-903. https://doi.org/10.18280/ijdne.180416
229	Shahini, S., Shahini, E., Koni, B., Shahini, Z., Shahini, E., Bërxolli, A.	Enhanced Tomato Yield via Bumblebee Pollination: A Case Study in Durres, Albania	Bombus terrestris, tomato cultivation, pollination methods, greenhouse, controlled environment agriculture	18, 4, 905-914	https://doi.org/10.18280/ijdne.180417	Shahini, S., Shahini, E., Koni, B., Shahini, Z., Shahini, E., Bërxolli, A. (2023). Enhanced tomato yield via bumblebee pollination: A case study in Durres, Albania. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 905-914. https://doi.org/10.18280/ijdne.180417
230	Fikri, E., Djuhriah, N., Hanurawaty, N.Y., Ayuhasuti, A., Firmansyah, Y.W.	Effect of Piper Betle Linn Extract Concentration and Contact Time on Reducing Bacillus Subtilis and Bacillus Stearothermophilus in Medical Waste	antimicrobial, disinfectant, medical waste treatment	18, 4, 915-921	https://doi.org/10.18280/ijdne.180418	Fikri, E., Djuhriah, N., Hanurawaty, N.Y., Ayuhasuti, A., Firmansyah, Y.W. (2023). Effect of Piper betle Linn extract concentration and contact time on reducing Bacillus subtilis and Bacillus stearothermophilus in medical waste. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 915-921. https://doi.org/10.18280/ijdne.180418
231	Zeffitni, Rusdin, A., Napitupulu, M., Basir-Cyio, M., Juniah R.	Hydromorphological and Hydrogeological Assessment of Liquefaction Vulnerability in Central Sulawesi, Indonesia	aquifer parameter, Central Sulawesi, geology, hydrogeological, hydromorphological, liquefaction, unconfined aquifer	18, 4, 923-929	https://doi.org/10.18280/ijdne.180419	Zeffitni, Rusdin, A., Napitupulu, M., Basir-Cyio, M., Juniah R. (2023). Hydromorphological and hydrogeological assessment of liquefaction vulnerability in Central Sulawesi, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 923-929. https://doi.org/10.18280/ijdne.180419
232	Duryat, Dewantara, P.A.A., Santoso, T., Hidayat, W.	Extended Fermentation and Physical Scarification to Break Dormancy in Aren (Arenca pinnata) Seeds	fermentation, physical scarification, Arenca pinnata, dormancy breaking, deopercolation	18, 4, 931-937	https://doi.org/10.18280/ijdne.180420	Duryat, Dewantara, P.A.A., Santoso, T., Hidayat, W. (2023). Extended fermentation and physical scarification to break dormancy in Aren (Arenca pinnata) seeds. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 931-937. https://doi.org/10.18280/ijdne.180420
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234	Samadi, Wahyudi, I., Wajizah, S., Zulfahrizal, Munawar, A.A.	Rapid and Non-Destructive Prediction of Animal Feed Nutritive Parameters Using Near Infrared Spectroscopy and Multivariate Analysis	near-infrared spectroscopy (NIRS), feed, nutritive, prediction, spectroscopy	18, 4, 951-956	https://doi.org/10.18280/ijdne.180422	Samadi, Wahyudi, I., Wajizah, S., Zulfahrizal, Munawar, A.A. (2023). Rapid and non-destructive prediction of animal feed nutritive parameters using near infrared spectroscopy and multivariate analysis. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 951-956. https://doi.org/10.18280/ijdne.180422

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237	Dukenov, Z., Utebekova, A., Kopabayeva, A., Shynbekov, M., Akhmetov, R., Rakymbekov, Z., Bekturganov, A., Dosmanbetov, D.	Influence of Climatic Changes on the Dendrochronological Features of Tugai Forests along the Syr Darya and Ili Rivers in the Territory of Kazakhstan	climate, dendrochronological features, Ili, river, Syr Darya, Tugai forest	18, 4, 975-982	https://doi.org/10.18280/ijdne.180425	Dukenov, Z., Utebekova, A., Kopabayeva, A., Shynbekov, M., Akhmetov, R., Rakymbekov, Z., Bekturganov, A., Dosmanbetov, D. (2023). Influence of climatic changes on the dendrochronological features of Tugai forests along the Syr Darya and Ili Rivers in the Territory of Kazakhstan. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 975-982. https://doi.org/10.18280/ijdne.180425
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240	Rasheed, K.G., Rasheed, S.A.A., Rahma, M.T.	Interruption of Urban Style of Old Baghdad's Hub: A Case Study of the Urban Fabric of Historic Baghdad- Al Rusafa	architectural style, historical buildings, isolated icons and interruption, urban style, urban scene	18, 4, 995-1002	https://doi.org/10.18280/ijdne.180428	Rasheed, K.G., Rasheed, S.A.A., Rahma, M.T. (2023). Interruption of urban style of old Baghdad's hub: A case study of the urban fabric of historic Baghdad- Al Rusafa. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 4, pp. 995-1002. https://doi.org/10.18280/ijdne.180428
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245	Asmarahman, C., Prasetya, H., Damayanti, I.	Endomycorrhizae and Soil Ameliorant Applications on Growth Performance of Red Jabon (<i>Anthocephalus macrophyllus</i>) in Lime Stone Post Mining Land of PT. Holcim Indonesia Tbk	red Jabon, endomycorrhizae, ameliorant, limestone post-mining	18, 3, 517-527	https://doi.org/10.18280/ijdne.180303	Asmarahman, C., Prasetya, H., Damayanti, I. (2023). Endomycorrhizae and soil ameliorant applications on growth performance of red Jabon (<i>Anthocephalus macrophyllus</i>) in lime stone post mining land of PT. Holcim Indonesia Tbk. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 3, pp. 517-527. https://doi.org/10.18280/ijdne.180303
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251	Abdurrahman, M., Sahidu, A., Hayati, Bachri, J., Siti, N., Anwar.	Adoption of Horticultural Innovations by Smallholder Farmers in North Lombok - Indonesia	horticulture, innovations, adoption, earthquake, COVID-19, impacts	18, 3, 573-581	https://doi.org/10.18280/ijdne.180309	Abdurrahman, M., Sahidu, A., Hayati, Bachri, J., Siti, N., Anwar. (2023). Adoption of horticultural innovations by smallholder farmers in North Lombok - Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 3, pp. 573-581. https://doi.org/10.18280/ijdne.180309
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258	Mitab, B.T., Hamdoon, R.M., Sayl, K.N.	Assessing Potential Landfill Sites Using GIS and Remote Sensing Techniques: A Case Study in Kirkuk, Iraq	geographical information system (GIS), Iraq, landfill, waste	18, 3, 643-652	https://doi.org/10.18280/ijdne.180316	Mitab, B.T., Hamdoon, R.M., Sayl, K.N. (2023). Assessing potential landfill sites using GIS and remote sensing techniques: A case study in Kirkuk, Iraq. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 3, pp. 643-652. https://doi.org/10.18280/ijdne.180316
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265	Arifuddin, R., Aulia, R., Abdurrahman, M.A., Tumpu, M., Fadlillah, M.R.	Study on Implementation of Health Protocols for COVID-19 Prevention in Construction Project in Indonesia	COVID-19, project construction, protocol health, policy	18, 3, 705-711	https://doi.org/10.18280/ijdne.180323	Arifuddin, R., Aulia, R., Abdurrahman, M.A., Tumpu, M., Fadlillah, M.R. (2023). Study on implementation of health protocols for COVID-19 prevention in construction project in Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 3, pp. 705-711. https://doi.org/10.18280/ijdne.180323
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267	Suherna, Nurrohmah, K., Rusbana, T.B., Najah, Z., Haliza, W.	Optimization and Marketing Analysis of Low-Oxalate Beneng Taro Flour (<i>Xanthosoma undipes</i> K. Koch) in Gluten-Free Noodles	optimization, low-oxalate, sensory, small businesses, physical and chemical properties, commercialization, taro flour, beneng	18, 3, 719-725	https://doi.org/10.18280/ijdne.180325	Suherna, Nurrohmah, K., Rusbana, T.B., Najah, Z., Haliza, W. (2023). Optimization and marketing analysis of low-oxalate beneng taro flour (<i>Xanthosoma undipes</i> K. Koch) in gluten-free noodles. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 3, pp. 719-725. https://doi.org/10.18280/ijdne.180325
268	Nokusheva, Z., Kantarbayeva, E., Issayeva, Z., Tokusheva, A., Meldebekova, N.	Enhancing Milk Productivity in Dairy Cows Through the Optimized Utilization of Oilseed Byproducts	diet, oil and fat industry, cow, stern, seeds, oilcake	18, 3, 727-733	https://doi.org/10.18280/ijdne.180326	Nokusheva, Z., Kantarbayeva, E., Issayeva, Z., Tokusheva, A., Meldebekova, N. (2023). Enhancing milk productivity in dairy cows through the optimized utilization of oilseed byproducts. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 3, pp. 727-733. https://doi.org/10.18280/ijdne.180326
269	Mutlek, O.S., Jumaa, A.M., Mahdi, M.F.	Study Effect of the Aqueous and Alcoholic Extracts of Radish and Ginger on the Gram Negative Bacteria that Cause Urinary Tract Infection in Balad City	bacteria, urinary tract infection, antibiotics sensitivity, radish and ginger plants	18, 3, 735-740	https://doi.org/10.18280/ijdne.180327	Mutlek, O.S., Jumaa, A.M., Mahdi, M.F. (2023). Study effect of the aqueous and alcoholic extracts of radish and ginger on the gram negative bacteria that cause urinary tract infection in Balad city. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 3, pp. 735-740. https://doi.org/10.18280/ijdne.180327
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272	Sudita, Y., Masrul, Prayitno, I., Suharti, N., Effendi, N., Dasman, H., Maputra, Y., Yenny, S.W.	Evaluating the Efficacy of the Sudita Model for Enhancing HIV Disclosure Among Couples in Jambi City, Indonesia	Sudita Model, disclosure of HIV-positive status, HIV AIDS, behavior	18, 3, 753-758	https://doi.org/10.18280/ij dne.180330	Sudita, Y., Masrul, Prayitno, I., Suharti, N., Effendi, N., Dasman, H., Maputra, Y., Yenny, S.W. (2023). Evaluating the efficacy of the Sudita Model for enhancing HIV disclosure among couples in Jambi City, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 3, pp. 753-758. https://doi.org/10.18280/ij dne.180330
273	Oludare, O.I., Kazeem, R.A., Adebayo, A.S., Awonusi, A.A., Dare, A.A., Ikumapayi, O.M., Adaramola, B.A.	An Assessment of Earthquake-Induced Landslides Distribution in Nepal Using Open-Source Applications on Sentinel-1 Tops SAR Imagery	landslide, InSAR, SAR, DInSAR, earthquake, disaster management	18, 2, 237-249	https://doi.org/10.18280/ij dne.180201	Oludare, O.I., Kazeem, R.A., Adebayo, A.S., Awonusi, A.A., Dare, A.A., Ikumapayi, O.M., Adaramola, B.A. (2023). An assessment of earthquake-induced landslides distribution in Nepal using open-source applications on sentinel-1 tops SAR imagery. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 2, pp. 237-249. https://doi.org/10.18280/ij dne.180201
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284	Wildani, A., Maryanto, S., Santoso, D.R., Triastuty, H.	An Investigation of the Volcanic Tremor of Ijen Volcano in East Java-Indonesia: A Post-Critical Case Study in 2012	earthquake, volcano eruption, vibration	18, 2, 351-359	https://doi.org/10.18280/ij dne.180212	Wildani, A., Maryanto, S., Santoso, D.R., Triastuty, H. (2023). An investigation of the volcanic tremor of Ijen volcano in East Java-Indonesia: A post-critical case study in 2012. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 2, pp. 351-359. https://doi.org/10.18280/ij dne.180212
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286	Akhbar, A., Naharuddin, N., Kurniadi, R., Malik, A., Massiri, S.D.	Spatial Distribution of Dryland Forest on Water Availability in Kumaligon Watershed Central Sulawesi, Indonesia	dryland forest, spatial, water availability, watershed	18, 2, 369-376	https://doi.org/10.18280/ij dne.180214	Akhbar, A., Naharuddin, N., Kurniadi, R., Malik, A., Massiri, S.D. (2023). Spatial distribution of dryland forest on water availability in Kumaligon watershed Central Sulawesi, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 2, pp. 369-376. https://doi.org/10.18280/ij dne.180214
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294	Syarifuddin, S.H., Hayatun, A., Ahmad, A., Taba, P., Fauziah, S., Sondari, D., Karim, H., Irfandi, R.	Synthesis and Its Application as Packaging of Bioplastic from Rice Huck Cellulose Citrate Using Chitosan and Sorbitol Plasticizers	bioplastic, cellulose citrate, chitosan, degradation, rice huck, plasticizer	18, 2, 435-441	https://doi.org/10.18280/ijdne.180222	Syarifuddin, S.H., Hayatun, A., Ahmad, A., Taba, P., Fauziah, S., Sondari, D., Karim, H., Irfandi, R. (2023). Synthesis and its application as packaging of bioplastic from rice huck cellulose citrate using chitosan and sorbitol plasticizers. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 2, pp. 435-441. https://doi.org/10.18280/ijdne.180222
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299	Al-Ani, Y., Jalal, A.D., Ismael, Z.M.	Evaluation of X-3B Dye Removal and COD Reduction from Dyeing Wastewater Using Iron Wastes and Coagulation Process	COD, coagulation, decolorization, dyeing wastewater, zero valent iron	18, 2, 473-478	https://doi.org/10.18280/ijdne.180227	Al-Ani, Y., Jalal, A.D., Ismael, Z.M. (2023). Evaluation of X-3B dye removal and COD reduction from dyeing wastewater using iron wastes and coagulation process. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 2, pp. 473-478. https://doi.org/10.18280/ijdne.180227
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306	Yulianti, N., Adji, F.F., Susetyo, K.E., Kusin, K., Naito, D.	Sustainable Peatland Management Model-A Case of Kalampangan Village, Palangka Raya City, Central Kalimantan, Indonesia	farming, Indonesia, Kalimantan, Borneo, peatland, sustainable management	18, 1, 29-38	https://doi.org/10.18280/ijdne.180104	Yulianti, N., Adji, F.F., Susetyo, K.E., Kusin, K., Naito, D. (2023). Sustainable peatland management model-a case of Kalampangan village, Palangka Raya City, Central Kalimantan, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 18, No. 1, pp. 29-38. https://doi.org/10.18280/ijdne.180104

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341	Baiturina, R., Konovalov, V., Gabelkhakov, A., Khanova, E., Rafikova, D.	Forest Stand Reproduction in the Changing Climate Conditions on the Example of the Bashkortostan Republic	Baiturina, R., Konovalov, V., Gabelkhakov, A., Khanova, E., Rafikova, D.	17, 6, 891-898	https://doi.org/10.18280/ij dne.170609	Baiturina, R., Konovalov, V., Gabelkhakov, A., Khanova, E., Rafikova, D. (2022). Forest stand reproduction in the changing climate conditions on the example of the Bashkortostan Republic. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 6, pp. 891-898. https://doi.org/10.18280/ij dne.170609
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344	Mohammed, S.S., Sayl, K.N., Kamel, A.H.	Ground Water Recharge Mapping in Iraqi Western Desert	ground water, Iraqi Western Desert, rainfall, GIS, ANN, RS, recharge	17, 6, 913-920	https://doi.org/10.18280/ij dne.170612	Mohammed, S.S., Sayl, K.N., Kamel, A.H. (2022). Ground water recharge mapping in Iraqi Western Desert. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 6, pp. 913-920. https://doi.org/10.18280/ij dne.170612
345	Natawijaya, D., Yulianto, Y., Hadiyah, I., Manik, V.T., Meylani, V.	Inoculation by Mycorrhizal on Combinations of Planting Media and Host Plant Types and Their Effect on Plant Vegetative Growth	mycorrhizae, medium for growth, upland rice, corn, shallot	17, 6, 921-927	https://doi.org/10.18280/ij dne.170613	Natawijaya, D., Yulianto, Y., Hadiyah, I., Manik, V.T., Meylani, V. (2022). Inoculation by mycorrhizal on combinations of planting media and host plant types and their effect on plant vegetative growth. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 6, pp. 921-927. https://doi.org/10.18280/ij dne.170613
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354	Al-Musawi, W.H., Al-arab, N.K.I., Abdulwahid, S.M.	The Impact of Intellectual Ideologies in Shaping the Urban Townscape from the Middle Ages to the Contemporary: The City of Baghdad Between Yesterday and Today	narratives of the urban townscape, ideals and ideologies, city centers, the Renaissance, modernity, postmodernity, Al-Rasheed Street	17, 5, 649-658	https://doi.org/10.18280/ij dne.170502	Al-Musawi, W.H., Al-arab, N.K.I., Abdulwahid, S.M. (2022). The impact of intellectual ideologies in shaping the urban townscape from the Middle Ages to the contemporary: The city of Baghdad between yesterday and today. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 5, pp. 649-658. https://doi.org/10.18280/ij dne.170502
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362	Khudhair, A.A., Shaia, H.A., Aodah, H.H., Abdulreda, M.M.	Improving the Characteristics of Subgrade Soil Using Different Chemical Additives: Case Study Al-Nasiriya Soil	cement, lime, ferric chloride (FeCl ₃), compaction, UCS, CBR	17, 5, 729-736	https://doi.org/10.18280/ijdne.170510	Khudhair, A.A., Shaia, H.A., Aodah, H.H., Abdulreda, M.M. (2022). Improving the characteristics of subgrade soil using different chemical additives: Case study Al-Nasiriya soil. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 5, pp. 729-736. https://doi.org/10.18280/ijdne.170510
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372	Al-Mukhtar, M.T., Al-Obaidi, A.A.H.	The Estimation of One-Dimensional Collapse for Highly Gypseous Soils	gypseous soil, collapsibility, collapse potential, collapse strain	17, 5, 801-806	https://doi.org/10.18280/ijdne.170520	Al-Mukhtar, M.T., Al-Obaidi, A.A.H. (2022). The estimation of one-dimensional collapse for highly gypseous soils. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 5, pp. 801-806. https://doi.org/10.18280/ijdne.170520
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400	Ali, S.H., Abdulzahra, G.N.	The Role of Intangible Values for Historic Places in Stimulating Tourism Investment (Ur City in Iraq-Case Study)	historic places, tourism investment, cultural heritage, tourism marketing	17, 3, 383-390	https://doi.org/10.18280/ijdne.170308	Ali, S.H., Abdulzahra, G.N. (2022). The role of intangible values for historic places in stimulating tourism investment (Ur city in Iraq-case study). <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 3, pp. 383-390. https://doi.org/10.18280/ijdne.170308
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404	Nasir, M., Nur, M., Pandiangan, D., Mambu, S.M., Fauziah, S., Raya, I., Fudholi, A., Irfandi, R.	Phytoremediation Study of Water Hyacinth (<i>Eichhornia Crassipes</i>) on Zinc Metal Ion (Zn ²⁺)	water hyacinth (<i>Eichhornia crassipes</i>), Zn metal, phytoremediation, physicochemical, Lake Tempe	17, 3, 417-422	https://doi.org/10.18280/ijdne.170312	Nasir, M., Nur, M., Pandiangan, D., Mambu, S.M., Fauziah, S., Raya, I., Fudholi, A., Irfandi, R. (2022). Phytoremediation study of water hyacinth (<i>Eichhornia crassipes</i>) on zinc metal ion (Zn ²⁺). <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 3, pp. 417-422. https://doi.org/10.18280/ijdne.170312
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407	Hasham, G.J., Ramal, M.M.	Water Quality Assessment of Euphrates River Using Heavy Metal Pollution Indices Within Fallujah City Reach, Anbar Province, Iraq	water quality assessment, HMPI, HMEI, CD	17, 3, 439-445	https://doi.org/10.18280/ijdne.170315	Hasham, G.J., Ramal, M.M. (2022). Water quality assessment of Euphrates river using heavy metal pollution indices within Fallujah City Reach, Anbar Province, Iraq. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 3, pp. 439-445. https://doi.org/10.18280/ijdne.170315
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412	Darwin, Aldama, S., Masturi.	Effects of the Different Loading Characters of Cattle Manure as Inoculum Towards the Composting Process of Coconut Pulp Waste	cattle manure, coconut pulp waste, composting, loading characters	17, 3, 475-479	https://doi.org/10.18280/ijdne.170320	Darwin, Aldama, S., Masturi. (2022). Effects of the different loading characters of cattle manure as inoculum towards the composting process of coconut pulp waste. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 3, pp. 475-479. https://doi.org/10.18280/ijdne.170320
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420	Zehawi, R.N., Hameed, A.H.	The Impact of Urban Growth Pattern on Local Road Network: A System Dynamics Study	BAQUBA city, causal loop diagram, road network, system dynamics, pattern, urban growth	17, 2, 221-231	https://doi.org/10.18280/ijdne.170208	Zehawi, R.N., Hameed, A.H. (2022). The impact of urban growth pattern on local road network: A system dynamics study. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 2, pp. 221-231. https://doi.org/10.18280/ijdne.170208
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423	Hussain, R.A., Hassan, S.A., Jamel, A.A.J.	Experimental Study on Flow over Triangular Labyrinth Weirs	weir, fluid mechanics, triangular, labyrinth weir	17, 2, 249-255	https://doi.org/10.18280/ijdne.170211	Hussain, R.A., Hassan, S.A., Jamel, A.A.J. (2022). Experimental study on flow over triangular labyrinth weirs. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 2, pp. 249-255. https://doi.org/10.18280/ijdne.170211
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435	Hasan, N.A.	The Swarm City - Characteristics of the Swarm Intelligence System in the Traditional Arab City	swarm city, swarm urbanism, characteristics of swarm intelligence, multiplicity of agents, group emerging behaviors, self-organization	17, 1, 17-28	https://doi.org/10.18280/ijdne.170103	Hasan, N.A. (2022). The swarm city - Characteristics of the swarm intelligence system in the traditional Arab city. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 1, pp. 17-28. https://doi.org/10.18280/ijdne.170103
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446	Walanda, D.K., Anshary, A., Napitupulu, M., Walanda, R.M.	The Utilization of Corn Stalks as Biochar to Adsorb BOD and COD in Hospital Wastewater	biochar, COD, BOD, SEM-EDS, corn stalks, adsorption, pyrolysis	17, 1, 113-118	https://doi.org/10.18280/ijdne.170114	Walanda, D.K., Anshary, A., Napitupulu, M., Walanda, R.M. (2022). The utilization of corn stalks as biochar to adsorb BOD and COD in hospital wastewater. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 1, pp. 113-118. https://doi.org/10.18280/ijdne.170114
447	Fadli, N., Damora, A., Muchlisin, Z.A., Dewiyanti, I., Ramadhaniaty, M., Razy, N.M., Macusi, E.D., Siti-Azizah, M.N.	Length-Weight Relationships and Condition Factors of Three Epinephelus Grouper (Epinephelidae) Harvested in the Northern Coast of Aceh, Indonesia	Fulton, fisheries, grouper, IUCN, kerapu, LWRs	17, 1, 119-124	https://doi.org/10.18280/ijdne.170115	Fadli, N., Damora, A., Muchlisin, Z.A., Dewiyanti, I., Ramadhaniaty, M., Razy, N.M., Macusi, E.D., Siti-Azizah, M.N. (2022). Length-weight relationships and condition factors of three Epinephelus grouper (Epinephelidae) harvested in the northern coast of Aceh, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 1, pp. 119-124. https://doi.org/10.18280/ijdne.170115
448	Triharyanto, E., Pujiasmanto, B., Setyaningrum, D.	Yield Potential of Shallots Bulbil Planting Materials with Liquid Organic Fertilizer Treatment out of Season	allium cepa L. aggregatum, soil chemistry, vegetative parts	17, 1, 125-129	https://doi.org/10.18280/ijdne.170116	Triharyanto, E., Pujiasmanto, B., Setyaningrum, D. (2022). Yield potential of shallots bulbil planting materials with liquid organic fertilizer treatment out of season. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 1, pp. 125-129. https://doi.org/10.18280/ijdne.170116
449	Omodero, C.O.	Environmental Taxation and Public Health Issues	environmental taxation, pollution, degradation, preservation, public health, JEL classification codes: H23, I18, O44, Q53	17, 1, 131-136	https://doi.org/10.18280/ijdne.170117	Omodero, C.O. (2022). Environmental taxation and public health issues. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 1, pp. 131-136. https://doi.org/10.18280/ijdne.170117
450	Mohammed, A.S., Md Said, M.A., Kamel, A.H., Abdullah, R.	Develop Evaporation Model Using Multiple Linear Regression in the Western Desert of Iraq -Horan Valley	evaporation, MLR, Horan valley, Kharufa, Khosla	17, 1, 137-143	https://doi.org/10.18280/ijdne.170118	Mohammed, A.S., Md Said, M.A., Kamel, A.H., Abdullah, R. (2022). Develop evaporation model using multiple linear regression in the Western Desert of Iraq -Horan valley. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 1, pp. 137-143. https://doi.org/10.18280/ijdne.170118

451	Djafar, Z., Suluh, S., Amaliyah, N., Piarah, W.H.	Comparison of the Performance of Biomass Briquette Stoves on Three Types of Stove Wall Materials	briquette stove, biomass, coconut shell, temperature, efficiency	17, 1, 145-149	https://doi.org/10.18280/ijdne.170119	Djafar, Z., Suluh, S., Amaliyah, N., Piarah, W.H. (2022). Comparison of the performance of biomass briquette stoves on three types of stove wall materials. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 1, pp. 145-149. https://doi.org/10.18280/ijdne.170119
452	Laude, S., Mahfudz, Ramlan.	Diversity, Species, and Plant Growth Regulator and Nutrient Content of Local Weeds in Tawaeli Sub-District, Palu City, Indonesia	local weeds, plant growth regulator, weed biodiversity	17, 1, 151-155	https://doi.org/10.18280/ijdne.170120	Laude, S., Mahfudz, Ramlan. (2022). Diversity, species, and plant growth regulator and nutrient content of local weeds in Tawaeli Sub-District, Palu City, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 17, No. 1, pp. 151-155. https://doi.org/10.18280/ijdne.170120
453	Mousavi, S.M., Khan, T.H., Mohammadi, A.	Adjustable Internal Shading for Home Office Daylighting in Tropical Climates	COVID-19, daylight, glare, internal shading, residential building, tropical climate, visual comfort	16, 6, 609-624	https://doi.org/10.18280/ijdne.160601	Mousavi, S.M., Khan, T.H., Mohammadi, A. (2021). Adjustable internal shading for home office daylighting in tropical climates. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 609-624. https://doi.org/10.18280/ijdne.160601
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455	Al-Hinkawi, W.S., Hasan, N.A., Zedan, S.K.	Facadism: An Approach for Spatial Reconfiguration	facadism, urban contexts, spatial reconfiguration, historical axes and spaces	16, 6, 631-640	https://doi.org/10.18280/ijdne.160603	Al-Hinkawi, W.S., Hasan, N.A., Zedan, S.K. (2021). Facadism: An approach for spatial reconfiguration. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 631-640. https://doi.org/10.18280/ijdne.160603
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457	Kadim, M.A.A., Omran, I.I., Al-Taai, A.A.S.	Optimization of the Nonlinear Muskingum Model Parameters for the River Routing, Tigris River a Case Study	flood routing, nonlinear Muskingum model, particle swarm optimization (PSO), genetic algorithm (GA), harmony search (HS), least-squares method (LSM), Hook-Jeeves (HJ)	16, 6, 649-656	https://doi.org/10.18280/ijdne.160605	Kadim, M.A.A., Omran, I.I., Al-Taai, A.A.S. (2021). Optimization of the nonlinear Muskingum model parameters for the river routing, Tigris River a case study. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 649-656. https://doi.org/10.18280/ijdne.160605
458	Najim, S., Alslam, N.A., Albazzaz, I.A.	Environmental Influences on the Settlements Patterns of Communities in the Marshes of Iraq	Mesopotamia, marshes, Aljabayesh, cultural heritage, rural settlement economy, environmental adaptation, construction techniques, growth pattern	16, 6, 657-663	https://doi.org/10.18280/ijdne.160606	Najim, S., Alslam, N.A., Albazzaz, I.A. (2021). Environmental influences on the settlements patterns of communities in the marshes of Iraq. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 657-663. https://doi.org/10.18280/ijdne.160606
459	Odekina, G.O., Adedotun, A.F., Odusanya, O.A.	Vector Autoregressive Modeling of COVID-19 Incidence Rate in Nigeria	COVID-19, co-integration, vector autoregressive model	16, 6, 665-669	https://doi.org/10.18280/ijdne.160607	Odekina, G.O., Adedotun, A.F., Odusanya, O.A. (2021). Vector autoregressive modeling of COVID-19 incidence rate in Nigeria. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 665-669. https://doi.org/10.18280/ijdne.160607
460	Darwin, Diana, N., Mardhotillah, Pratama, A.	Anaerobic Co-Digestion of Cow Manure and Palm Oil Mill Effluent (POME): Assessment of Methane Production and Biodegradation Efficiency	anaerobic co-digestion, POME, cow manure, methane, biodegradation	16, 6, 671-676	https://doi.org/10.18280/ijdne.160608	Darwin, Diana, N., Mardhotillah, Pratama, A. (2021). Anaerobic co-digestion of cow manure and Palm oil mill effluent (POME): Assessment of methane production and biodegradation efficiency. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 671-676. https://doi.org/10.18280/ijdne.160608
461	Khasanah, N., Martono, E., Trisyono, Y.A., Wijonarko, A.	Toxicity and Antifeedant Activity of Calotropis gigantea L. Leaf Extract Against Plutella xylostella L. (Lepidoptera: Plutellidae)	antifeedant, compound composition, leaf dipping, spraying	16, 6, 677-682	https://doi.org/10.18280/ijdne.160609	Khasanah, N., Martono, E., Trisyono, Y.A., Wijonarko, A. (2021). Toxicity and antifeedant activity of Calotropis gigantea L. leaf extract against Plutella xylostella L. (Lepidoptera: Plutellidae). <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 677-682. https://doi.org/10.18280/ijdne.160609
462	Hussein, M.N., Alkadhimi, A., Najim, W.A., Almousawi, H.A.	Shaking Table Experiment on Seismic Performance of a Scaled-Down Arch Dam with Initial Crack	cracked arch dam, earthquake, degree of curvature, XFEM	16, 6, 683-689	https://doi.org/10.18280/ijdne.160610	Hussein, M.N., Alkadhimi, A., Najim, W.A., Almousawi, H.A. (2021). Shaking table experiment on seismic performance of a scaled-down arch dam with initial crack. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 683-689. https://doi.org/10.18280/ijdne.160610
463	Ningsih, P., Rahmawati, S., Santi, N.M.N., Suherman, Diah, A.W.M.	Making Edible Film from Jackfruit Seed Starch (Artocarpus Heterophyllus) with the Addition of Rosella Flower Extract (Hibiscus Sabdariffa L.) as Antioxidant	edible film, jackfruit seed starch, rosella flower extract, glycerol, plasticizer	16, 6, 691-699	https://doi.org/10.18280/ijdne.160611	Ningsih, P., Rahmawati, S., Santi, N.M.N., Suherman, Diah, A.W.M. (2021). Making edible film from jackfruit seed starch (Artocarpus heterophyllus) with the addition of rosella flower extract (Hibiscus sabdariffa L.) as antioxidant. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 691-699. https://doi.org/10.18280/ijdne.160611
464	Mohammed, K.A., Mansi, A.I., Salih, S.M.	Influence of Waste Cork with Thinner on the Rheological Properties of Asphalt	waste cork, asphalt, rheological properties, materials, modified	16, 6, 701-707	https://doi.org/10.18280/ijdne.160612	Mohammed, K.A., Mansi, A.I., Salih, S.M. (2021). Influence of waste cork with thinner on the rheological properties of asphalt. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 701-707. https://doi.org/10.18280/ijdne.160612
465	Ishak, M.G., Tunas, I.G., Herman, R., Setiawan, Arafat, Y.	Flow Simulation Using 2D Hydrodynamic Model at the Palu Estuary Based on National DEM (DEMNAS) Source Data	hydrodynamic simulation, RMA2, mesh, bed geometry, DEMNAS data	16, 6, 709-715	https://doi.org/10.18280/ijdne.160613	Ishak, M.G., Tunas, I.G., Herman, R., Setiawan, Arafat, Y. (2021). Flow simulation using 2D hydrodynamic model at the Palu estuary based on national DEM (DEMNAS) source data. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 709-715. https://doi.org/10.18280/ijdne.160613
466	Effendy, Antara, M., Muhandi, Pellokila, M.R., Mulyo, J.H.	Identification of Factors Affecting Decisions to Adopt Pesticides at Lowland Rice Farms in Indonesia	lowland rice farmers, pesticides, application frequency, double-hurdle model	16, 6, 717-723	https://doi.org/10.18280/ijdne.160614	Effendy, Antara, M., Muhandi, Pellokila, M.R., Mulyo, J.H. (2021). Identification of factors affecting decisions to adopt pesticides at lowland rice farms in Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 717-723. https://doi.org/10.18280/ijdne.160614
467	Almutalabi, S.N., Alzuhairi, M., Hashim, F.A.	Two Stages Thermal and Catalytic Cracking of Polyethylene Terephthalate to Fuel Production	PET plastic, calcium hydroxide, pyrolysis, fuel, GC/MS	16, 6, 725-732	https://doi.org/10.18280/ijdne.160615	Almutalabi, S.N., Alzuhairi, M., Hashim, F.A. (2021). Two stages thermal and catalytic cracking of polyethylene terephthalate to fuel production. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 6, pp. 725-732. https://doi.org/10.18280/ijdne.160615
468	Balocco, C., Petrone, G.L.	Sustainability and Wellbeing in Healthcare Facilities. An Investigation Inside a Historic Hospital	sustainable health care facilities, health and wellbeing, environmental sustainability, ventilation effectiveness, experimental monitoring, simulation, IAQ	16, 5, 477-485	https://doi.org/10.18280/ijdne.160501	Balocco, C., Petrone, G.L. (2021). Sustainability and wellbeing in healthcare facilities. An investigation inside a historic hospital. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 5, pp. 477-485. https://doi.org/10.18280/ijdne.160501

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470	Hapid, A., Napitupulu, M., Zubair, M.S.	Ethnopharmacology and Antioxidant Activity Studies of Woody Liana Original Wallacea	Lore Lindu National Park, Kaili Tribe, liana, ethnopharmacology	16, 5, 495-503	https://doi.org/10.18280/ij dne.160503	Hapid, A., Napitupulu, M., Zubair, M.S. (2021). Ethnopharmacology and antioxidant activity studies of woody liana original Wallacea. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 5, pp. 495-503. https://doi.org/10.18280/ij dne.160503
471	Mohammed, B.R., Jomaah, M.M., Zehawi, R.N.	Emergence Time Phasing for the Potential New Airports in the Middle District of Iraq	Baghdad international airport, Diyala governorate, al-Anbar governorate, salah al-din governorate, Baquba airport Habbaniyah airport, Balad airport, system dynamic	16, 5, 505-516	https://doi.org/10.18280/ij dne.160504	Mohammed, B.R., Jomaah, M.M., Zehawi, R.N. (2021). Emergence time phasing for the potential new airports in the middle district of Iraq. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 5, pp. 505-516. https://doi.org/10.18280/ij dne.160504
472	Kiran, R.N.D.S.S., Aparna, C., Radhika, S.	An Enhanced Weight Update Method for Simplified ARTMAP to Classify Groundwater Data	adaptive resonance theory, artificial neural network, fuzzy water quality index, simplified fuzzy ARTMAP, weighted arithmetic water quality index	16, 5, 517-524	https://doi.org/10.18280/ij dne.160505	Kiran, R.N.D.S.S., Aparna, C., Radhika, S. (2021). An enhanced weight update method for simplified ARTMAP to classify groundwater data. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 5, pp. 517-524. https://doi.org/10.18280/ij dne.160505
473	Taharin, M.R., Roslee, R.	The Application of Semi Variogram and Ordinary Kriging in Determining the Cohesion and Clay Percentage Distribution in Hilly Area of Sabah, Malaysia	Ordinary Kriging, semi variogram, cohesive soil, Sabah	16, 5, 525-530	https://doi.org/10.18280/ij dne.160506	Taharin, M.R., Roslee, R. (2021). The application of semi variogram and ordinary kriging in determining the cohesion and clay percentage distribution in hilly area of Sabah, Malaysia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 5, pp. 525-530. https://doi.org/10.18280/ij dne.160506
474	Qamar, A.M., Khan, R.U., Alsubihany, S.A.	Large-Scale Bibliometric Analysis of Coronavirus	bibliometrics, coronavirus, COVID-19, scientometrics	16, 5, 531-541	https://doi.org/10.18280/ij dne.160507	Qamar, A.M., Khan, R.U., Alsubihany, S.A. (2021). Large-scale bibliometric analysis of coronavirus. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 5, pp. 531-541. https://doi.org/10.18280/ij dne.160507
475	Herwanti, S., Febryano, I.G., Yuwono, S.B., Khotimah, K., Banuwa, I.S., Harianto, S.P., Tsani, M.K., Surnayanti, Damayanti, Praselia, H., Rusita, Fitriana, Y.R.	Tourism Economic Value of Bukit Pangonan Urban Forest, Lampung, Indonesia	consumer surplus, tourism, travel costs, urban communities	16, 5, 543-549	https://doi.org/10.18280/ij dne.160508	Herwanti, S., Febryano, I.G., Yuwono, S.B., Khotimah, K., Banuwa, I.S., Harianto, S.P., Tsani, M.K., Surnayanti, Damayanti, Praselia, H., Rusita, Fitriana, Y.R. (2021). Tourism economic value of Bukit Pangonan urban forest, Lampung, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 5, pp. 543-549. https://doi.org/10.18280/ij dne.160508
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477	Naser, A.K., Al-Shamkhee, D.M.H., Abed, Q.A.	Enhanced Electrical Properties of Crystalline Silicon Solar Cells via Nano-Composite Polyvinyl-Alcohol/Titanium Dioxide	TiO ₂ /PVA nanocomposite, solar cell, thermal regulation thin film, UV- mask, anti-reflection coating	16, 5, 557-564	https://doi.org/10.18280/ij dne.160510	Naser, A.K., Al-Shamkhee, D.M.H., Abed, Q.A. (2021). Enhanced electrical properties of crystalline silicon solar cells via nano-composite polyvinyl-alcohol/titanium dioxide. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 5, pp. 557-564. https://doi.org/10.18280/ij dne.160510
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480	Isrun, Hasanah, U., Laude, S., Basir-Cyio, M., Fadhilah, Effendy.	Reduction in the Emission Rate of Greenhouse Gases and the Increase in Crop Production by Using Compost on Marginal Land	greenhouse gases, emission, agricultural production, straw rice compost, cocoa pod husk	16, 5, 583-591	https://doi.org/10.18280/ij dne.160513	Isrun, Hasanah, U., Laude, S., Basir-Cyio, M., Fadhilah, Effendy. (2021). Reduction in the emission rate of greenhouse gases and the increase in crop production by using compost on marginal land. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 5, pp. 583-591. https://doi.org/10.18280/ij dne.160513
481	Taha, M.A., Ali, O.M., Weis, M.M.	Implementation of Fusel Oil as an Octane Enhancer with Commercial Gasoline to Operate Gasoline Engine	fusel oil, gasoline, SI engine, fuel additive, engine performance	16, 5, 593-599	https://doi.org/10.18280/ij dne.160514	Taha, M.A., Ali, O.M., Weis, M.M. (2021). Implementation of fusel oil as an octane enhancer with commercial gasoline to operate gasoline engine. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 5, pp. 593-599. https://doi.org/10.18280/ij dne.160514
482	Pramono, R., Hidayat, J., Dharmawan, C., Juliana.	Hybrid Bamboo and Batik Handicraft Development as Creative Tourism Product	bamboo batik handicraft, prototype, creative tourism product	16, 5, 601-607	https://doi.org/10.18280/ij dne.160515	Pramono, R., Hidayat, J., Dharmawan, C., Juliana. (2021). Hybrid bamboo and batik handicraft development as creative tourism product. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 5, pp. 601-607. https://doi.org/10.18280/ij dne.160515
483	Faris, M.R., Ibrahim, H.M., Abdulrahman, K.Z., Othman, L.S., Marc, K.D.	Fuzzy Logic Model for Optimal Operation of Darbandikhan Reservoir, Iraq	dynamic programming, fuzzy logic controller, hydropower generation, reservoir operation, simulation model	16, 4, 335-343	https://doi.org/10.18280/ij dne.160401	Faris, M.R., Ibrahim, H.M., Abdulrahman, K.Z., Othman, L.S., Marc, K.D. (2021). Fuzzy logic model for optimal operation of Darbandikhan reservoir, Iraq. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 4, pp. 335-343. https://doi.org/10.18280/ij dne.160401
484	Jamel, A.A.J., Irzooki, R.H., Al-Obaidi, A.	Overall Review of Seismic Wave Affected on Gravity Dam	seismic, gravity dam, damage, hydrodynamic, stress	16, 4, 345-357	https://doi.org/10.18280/ij dne.160402	Jamel, A.A.J., Irzooki, R.H., Al-Obaidi, A. (2021). Overall review of seismic wave affected on gravity dam. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 4, pp. 345-357. https://doi.org/10.18280/ij dne.160402
485	Wang, L.S.	Progress in Entropy Principle, as Disclosed by Nine Schools of Thermodynamics, and Its Ecological Implication	the mechanical theory of heat, Poincare range and causal necessity, engineering thermodynamics, the entropy principle as causal principle, maximum entropy production principle (MEPP)	16, 4, 359-372	https://doi.org/10.18280/ij dne.160403	Wang, L.S. (2021). Progress in entropy principle, as disclosed by nine schools of thermodynamics, and its ecological implication. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 4, pp. 359-372. https://doi.org/10.18280/ij dne.160403
486	Almawla, A.S., Kamel, A.H., Lateef, A.M.	Modelling of Flow Patterns over Spillway with CFD (Case Study: Haditha Dam in Iraq)	Ansys fluent, CFD numerical model, cavitation, k-ε turbulence model, physical model, VOF model, vibration	16, 4, 373-385	https://doi.org/10.18280/ij dne.160404	Almawla, A.S., Kamel, A.H., Lateef, A.M. (2021). Modelling of flow patterns over spillway with CFD (Case study: Haditha dam in Iraq). <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 4, pp. 373-385. https://doi.org/10.18280/ij dne.160404

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489	Abdullah, S., Sumarno, Leksono, A.S., Sudarto, Syam, S.	Modeling of SO2 and CH4 Emission Distribution in the Area Mataloko Geothermal Power Plant, East Nusa Tenggara, Indonesia	sulfur dioxide, methane gas, emissions, renewable energy, geothermal wells	16, 4, 401-410	https://doi.org/10.18280/ijdne.160407	Abdullah, S., Sumarno, Leksono, A.S., Sudarto, Syam, S. (2021). Modeling of SO2 and CH4 emission distribution in the area Mataloko geothermal power plant, East Nusa Tenggara, Indonesia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 4, pp. 401-410. https://doi.org/10.18280/ijdne.160407
490	Herianto.	Utilization Waste Brine Water Separator for Binary Electric Energy Conversion in Geothermal Wells	binary cycle, working fluid type, brine temperature, optimization, environmentally friendly	16, 4, 411-420	https://doi.org/10.18280/ijdne.160408	Herianto. (2021). Utilization waste brine water separator for binary electric energy conversion in geothermal wells. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 4, pp. 411-420. https://doi.org/10.18280/ijdne.160408
491	Khalaf, W.K., Kim, Y.T.	Design of the Humidity and Temperature Controller Using the Moistures of Leaf and Soil	leaf moisture, soil moisture, humidity and temperature, greenhouse, arduino Uno	16, 4, 421-433	https://doi.org/10.18280/ijdne.160409	Khalaf, W.K., Kim, Y.T. (2021). Design of the humidity and temperature controller using the moistures of leaf and soil. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 4, pp. 421-433. https://doi.org/10.18280/ijdne.160409
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498	Tashtoush, B., Megdouli, K., Gholizadeh, T., Dekam, E.	Exergoeconomic Analyses of a Cement Plant Waste Heat Recovery in a Novel Combined Power and Refrigeration Cycle	energy, exergy, exergoeconomic, triple-evaporator, waste recovery systems	16, 3, 251-260	https://doi.org/10.18280/ijdne.160302	Tashtoush, B., Megdouli, K., Gholizadeh, T., Dekam, E. (2021). Exergoeconomic analyses of a cement plant waste heat recovery in a novel combined power and refrigeration cycle. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 3, pp. 251-260. https://doi.org/10.18280/ijdne.160302
499	Khatibi, M., Khaidzir, K.A.M., Rashid, A.M.	Defining Sustainability in Afghanistan's Built Environment: A Case Study of World Bank Building in Kabul and Comparative Analysis of Prominent Literature	sustainable design, sustainable building, LEED-certified building, Afghanistan	16, 3, 261-268	https://doi.org/10.18280/ijdne.160303	Khatibi, M., Khaidzir, K.A.M., Rashid, A.M. (2021). Defining sustainability in Afghanistan's built environment: A case study of World Bank Building in Kabul and comparative analysis of prominent literature. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 3, pp. 261-268. https://doi.org/10.18280/ijdne.160303
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511	Belkebir, S.M., Khelidj, B., Abbas, M.T.	Effects of EGR and Alternative Fuels on Homogeneous Charge Compression Ignition (HCCI) Combustion Mode	pollutant emissions, direct injection diesel engine, HCCI engine, EGR, alternative fuel, chemical kinetics	16, 2, 135-144	https://doi.org/10.18280/ij dne.160203	Belkebir, S.M., Khelidj, B., Abbas, M.T. (2021). Effects of EGR and alternative fuels on homogeneous charge compression ignition (HCCI) combustion mode. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 2, pp. 135-144. https://doi.org/10.18280/ij dne.160203
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516	Hommedi, A.H., Abidalla, W.A., Naser, A.S.	Increasing the Productivity and Efficiency of Water Use by Reserving Water	water use, reserving sheet, surface irrigation, water productivity	16, 2, 185-189	https://doi.org/10.18280/ij dne.160208	Hommedi, A.H., Abidalla, W.A., Naser, A.S. (2021). Increasing the productivity and efficiency of water use by reserving water. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 2, pp. 185-189. https://doi.org/10.18280/ij dne.160208
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531	Idham, I., Pagiu, S., Lasmini, S.A., Nasir, B.H.	Effect of Doses of Green Manure from Different Sources on Growth and Yield of Maize in Dryland	leguminosae, organic fertilizer, Zea mays	16, 1, 61-67	https://doi.org/10.18280/ij dne.160108	Idham, I., Pagiu, S., Lasmini, S.A., Nasir, B.H. (2021). Effect of doses of green manure from different sources on growth and yield of maize in dryland. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 1, pp. 61-67. https://doi.org/10.18280/ij dne.160108
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534	Manjunath, P., Devaprakasam, D., Paul, D.	Estimation of Global Solar Radiation and Optimal Tilt Angles of Solar Panels for Pune, India	efficiency, optimal tilt, solar radiation	16, 1, 85-90	https://doi.org/10.18280/ij dne.160111	Manjunath, P., Devaprakasam, D., Paul, D. (2021). Estimation of global solar radiation and optimal tilt angles of solar panels for Pune, India. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 16, No. 1, pp. 85-90. https://doi.org/10.18280/ij dne.160111
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560	Luciani, S., Coccia, G., Tomassetti, S., Pierantozzi, M., Di Nicola, G.	Use of an indoor solar flash test device to evaluate production loss associated to specific defects on photovoltaic modules	flash test, I-V curve, infrared thermography, bypass diode, hot-spot, crack	15, 5, 639-646	https://doi.org/10.18280/ijdne.150504	Luciani, S., Coccia, G., Tomassetti, S., Pierantozzi, M., Di Nicola, G. (2020). Use of an indoor solar flash test device to evaluate production loss associated to specific defects on photovoltaic modules. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 639-646. https://doi.org/10.18280/ijdne.150504
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562	Qi, Q., Song, S.B.	Measurement and influencing factors of industrial water resource utilization efficiency in Yangtze River Economic Belt	Yangtze River Economic Belt (YREB), industrial water resource utilization efficiency (IWRUE), influencing factors, stochastic block model (SBM), Tobit model	15, 5, 653-658	https://doi.org/10.18280/ijdne.150506	Qi, Q., Song, S.B. (2020). Measurement and influencing factors of industrial water resource utilization efficiency in Yangtze River Economic Belt. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 653-658. https://doi.org/10.18280/ijdne.150506
563	Louiza, H., Zeroual, A.	Management and valorization of urban solid waste: Landfills of the Batna city case	urban solid waste, recovery, management principles, recycling, landfills, energy valorisation	15, 5, 659-665	https://doi.org/10.18280/ijdne.150507	Louiza, H., Zeroual, A. (2020). Management and valorization of urban solid waste: Landfills of the Batna city case. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 659-665. https://doi.org/10.18280/ijdne.150507
564	Shi, T.T., Chen, Z.H., Wang, Q., Zhang, W., Luo, M.M., Wang, N.T.	Features of oxygen and hydrogen isotopes in waters from the karst mountains, Xiangxi River Basin	environmental isotopes, karst mountains, hydrologic cycle, spatiotemporal variation, Xiangxi River Basin	15, 5, 667-675	https://doi.org/10.18280/ijdne.150508	Shi, T.T., Chen, Z.H., Wang, Q., Zhang, W., Luo, M.M., Wang, N.T. (2020). Features of oxygen and hydrogen isotopes in waters from the karst mountains, Xiangxi River Basin. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 667-675. https://doi.org/10.18280/ijdne.150508
565	Vaidyanathan, R., Fattapur, G., Guttal, R.C.	Method to retrieve bionic morphologies by spectral matching for the design space	bionic design, eigen modes, computational geometry, conceptual design, design optimisation, nature-inspired design	15, 5, 677-684	https://doi.org/10.18280/ijdne.150509	Vaidyanathan, R., Fattapur, G., Guttal, R.C. (2020). Method to retrieve bionic morphologies by spectral matching for the design space. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 677-684. https://doi.org/10.18280/ijdne.150509
566	Ding, D., Zhang, L., Liu, J.L., Chen, F., Si, X.R.	Design and implementation of a comprehensive evaluation model for shallow groundwater based on matter element extension	water quality evaluation, groundwater, matter element extension, comprehensive evaluation method	15, 5, 685-689	https://doi.org/10.18280/ijdne.150510	Ding, D., Zhang, L., Liu, J.L., Chen, F., Si, X.R. (2020). Design and implementation of a comprehensive evaluation model for shallow groundwater based on matter element extension. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 685-689. https://doi.org/10.18280/ijdne.150510
567	Muneer, A.S., Sayl, K.N., Kamel, A.H.	Modeling of runoff in the arid regions using remote sensing and geographic information system (GIS)	runoff, infiltration, Geographic Information System (GIS), Remote Sensing (RS), Artificial Neural Network (ANN), Soil Conservation Service-Curve Number (SCS-CN), water resources management	15, 5, 691-700	https://doi.org/10.18280/ijdne.150511	Muneer, A.S., Sayl, K.N., Kamel, A.H. (2020). Modeling of runoff in the arid regions using remote sensing and geographic information system (GIS). <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 691-700. https://doi.org/10.18280/ijdne.150511
568	Wang, P.S., Ding, H.Y., Zhang, P.Y.	Shaking table tests and numerical analysis on the seismic response of karst-crossing socketed piles in dry sandy soil foundation	dry sandy soil foundation, pile-soil interaction, karst cave, shaking table test	15, 5, 701-709	https://doi.org/10.18280/ijdne.150512	Wang, P.S., Ding, H.Y., Zhang, P.Y. (2020). Shaking table tests and numerical analysis on the seismic response of karst-crossing socketed piles in dry sandy soil foundation. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 701-709. https://doi.org/10.18280/ijdne.150512
569	Ansar, M., Bahrudin, Darman, S., Paiman.	Application of bokashi fertilizer and duration of water supply to increase growth, yields, and quality of shallot in dryland	shallot, organic fertilizer bokashi, watering, dryland	15, 5, 711-719	https://doi.org/10.18280/ijdne.150513	Ansar, M., Bahrudin, Darman, S., Paiman. (2020). Application of bokashi fertilizer and duration of water supply to increase growth, yields, and quality of shallot in dryland. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 711-719. https://doi.org/10.18280/ijdne.150513
570	Loumani, A., Larbi, A.A., Mediani, A., Chaouch, W.B., Mouggar, H., Tigani, C., Meriama, F., Djaber, A., Bekada, A.M.A.	Experimental measurement of isothermal sorption, microbiological and physicochemical analysis of dried tomatoes cultivated in Adrar, Algeria	hygienic quality, product, conservation, drying solar, gravimetric method, isosteric heats, tomato, GAB and bet models	15, 5, 721-728	https://doi.org/10.18280/ijdne.150514	Loumani, A., Larbi, A.A., Mediani, A., Chaouch, W.B., Mouggar, H., Tigani, C., Meriama, F., Djaber, A., Bekada, A.M.A. (2020). Experimental measurement of isothermal sorption, microbiological and physicochemical analysis of dried tomatoes cultivated in Adrar, Algeria. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 721-728. https://doi.org/10.18280/ijdne.150514
571	Chen, G., Cai, L., Zong, L., Wang, Y., Yuan, X.	Survey of marine organisms based on passive acoustic technology	marine organisms, passive acoustic technology (PAT), digital signal processing, feature extraction	15, 5, 729-737	https://doi.org/10.18280/ijdne.150515	Chen, G., Cai, L., Zong, L., Wang, Y., Yuan, X. (2020). Survey of marine organisms based on passive acoustic technology. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 729-737. https://doi.org/10.18280/ijdne.150515
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573	Huang, H.Y., Wu, G.Y., Rong, Y.	Distribution law of water pressure on the lining in tunnels with water blocking and drainage control design	tunnel, water pressure on the lining (WPOL), distribution law, permeability	15, 5, 749-755	https://doi.org/10.18280/ijdne.150517	Huang, H.Y., Wu, G.Y., Rong, Y. (2020). Distribution law of water pressure on the lining in tunnels with water blocking and drainage control design. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 749-755. https://doi.org/10.18280/ijdne.150517
574	Abdulqader, O.Q., Ahmed, J.A.	Relationships between interior and exterior spaces as a factor of efficient university buildings	interior design, university buildings, educational buildings comfortable space, green design, users' needs	15, 5, 757-762	https://doi.org/10.18280/ijdne.150518	Abdulqader, O.Q., Ahmed, J.A. (2020). Relationships between interior and exterior spaces as a factor of efficient university buildings. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 5, pp. 757-762. https://doi.org/10.18280/ijdne.150518
575	Borsos, Á., Hendrix, T., Lovig, D., Sadoud, N., Zoltán, E.S., Medvegy, G., Bachmann, E.	Lounge designs for the Budapest office of a multinational company	lounges, office-space architecture, open-plan design, reducing office stress, work health, workplace recreation areas	15, 4, 455-463	https://doi.org/10.18280/ijdne.150401	Borsos, Á., Hendrix, T., Lovig, D., Sadoud, N., Zoltán, E.S., Medvegy, G., Bachmann, E. (2020). Lounge designs for the Budapest office of a multinational company. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 4, pp. 455-463. https://doi.org/10.18280/ijdne.150401
576	Okhrimenko, V., Glebova, M.	Methodology calculation for reactive power compensation in industrial enterprises	compensation, loss of electrical energy, reactive power, reduced costs	15, 4, 465-471	https://doi.org/10.18280/ijdne.150402	Okhrimenko, V., Glebova, M. (2020). Methodology calculation for reactive power compensation in industrial enterprises. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 4, pp. 465-471. https://doi.org/10.18280/ijdne.150402

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579	Prihatini, R., Saleh, N.M.	The stimulated growth of tissue cultured banana and slipper orchid as exposed to extremely low frequency electromagnetic field	antioxidant activity, catalase, ELF-EMF, glutathione reductase, in vitro plant, superoxide dismutase	15, 4, 491-497	https://doi.org/10.18280/ijdne.150405	Prihatini, R., Saleh, N.M. (2020). The stimulated growth of tissue cultured banana and slipper orchid as exposed to extremely low frequency electromagnetic field. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 4, pp. 491-497. https://doi.org/10.18280/ijdne.150405
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582	Tarrad, M., Sqour, S.	Applications of green architecture in vernacular dwelling architecture-a case study from Jordan	dwelling building, environmental architecture, vernacular architecture, green architecture, society community, Jordan	15, 4, 515-522	https://doi.org/10.18280/ijdne.150408	Tarrad, M., Sqour, S. (2020). Applications of green architecture in vernacular dwelling architecture-a case study from Jordan. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 4, pp. 515-522. https://doi.org/10.18280/ijdne.150408
583	Naser, A.S., Abidalla, W.A.	Using of best plane method (B.P.M.) to estimate the optimum number with value and direction of slopes for farm units in irrigation project	farm unit, irrigation project, cut - fill ratio, watercourse, optimum slope	15, 4, 523-531	https://doi.org/10.18280/ijdne.150409	Naser, A.S., Abidalla, W.A. (2020). Using of best plane method (B.P.M.) to estimate the optimum number with value and direction of slopes for farm units in irrigation project. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 4, pp. 523-531. https://doi.org/10.18280/ijdne.150409
584	Ma, F.R., Luo, H., Liao, Y., Zhang, X.G.	Simulation tests on load bearing features of mudstone foundation in project lifecycle	mudstone, load bearing features, project lifecycle, soft rock	15, 4, 533-538	https://doi.org/10.18280/ijdne.150410	Ma, F.R., Luo, H., Liao, Y., Zhang, X.G. (2020). Simulation tests on load bearing features of mudstone foundation in project lifecycle. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 4, pp. 533-538. https://doi.org/10.18280/ijdne.150410
585	Ma, F.R., Luo, H., Liao, Y., Zhang, X.G.	Impacts of temperature, precipitation and population growth on energy demands of Delhi	climate change, decadal population growth, electricity demand, energy demand	15, 4, 539-544	https://doi.org/10.18280/ijdne.150411	Ma, F.R., Luo, H., Liao, Y., Zhang, X.G. (2020). Impacts of temperature, precipitation and population growth on energy demands of Delhi. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 4, pp. 539-544. https://doi.org/10.18280/ijdne.150411
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588	Al-kaabi, M.M., Al-Zuhairy, M.S., Balla, H.H.	Effect of a new design electronic control system on the emissions improve for diesel engine operation by (diesel + LPG)	diesel engine, diesel fuel, dual-fuel, LPG, emission, NOx, HC, CO2	15, 4, 565-572	https://doi.org/10.18280/ijdne.150414	Al-kaabi, M.M., Al-Zuhairy, M.S., Balla, H.H. (2020). Effect of a new design electronic control system on the emissions improve for diesel engine operation by (diesel + LPG) <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 4, pp. 565-572. https://doi.org/10.18280/ijdne.150414
589	Naharuddin, N., Malik, A., Rachman, I., Muis, H., Hamzari, H., Wahid, A.	Land use planning for post-disaster soil liquefaction area based on erosion hazard index	Watershed, erosion hazard, land use, GIS, USLE, tsunami	15, 4, 573-578	https://doi.org/10.18280/ijdne.150415	Naharuddin, N., Malik, A., Rachman, I., Muis, H., Hamzari, H., Wahid, A. (2020). Land use planning for post-disaster soil liquefaction area based on erosion hazard index. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 4, pp. 573-578. https://doi.org/10.18280/ijdne.150415
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593	Gao, F., Qiao, Y., Wang, W.H., Lv, S.J.	Identification and evaluation of factors affecting the eutrophication of Wuxing Lake	eutrophication, Wuxing Lake, evaluation, influencing factors	15, 4, 603-608	https://doi.org/10.18280/ijdne.150419	Gao, F., Qiao, Y., Wang, W.H., Lv, S.J. (2020). Identification and evaluation of factors affecting the eutrophication of Wuxing Lake. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 4, pp. 603-608. https://doi.org/10.18280/ijdne.150419
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596	He, F., Wang, J., Chen, X.J.	Comprehensive ecological management of black and smelly open channels: Evidence from Wuhan, China	black and smelly open channels, aeration, biological floating islands, comprehensive ecological management	15, 3, 299-307	https://doi.org/10.18280/ij dne.150303	He, F., Wang, J., Chen, X.J. (2020). Comprehensive ecological management of black and smelly open channels: Evidence from Wuhan, China. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 3, pp. 299-307. https://doi.org/10.18280/ij dne.150303
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601	Mutani, G., Beltramo, S., Forte, A.	A clean energy atlas for energy communities in Piedmont Region (Italy)	sustainable development, atlases and models, energy efficiency measures, renewable energy sources technologies, smart grids	15, 3, 343-353	https://doi.org/10.18280/ij dne.150308	Mutani, G., Beltramo, S., Forte, A. (2020). A clean energy atlas for energy communities in Piedmont Region (Italy). <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 3, pp. 343-353. https://doi.org/10.18280/ij dne.150308
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623	Lv, C.M., Zhang, H., Wang, X., Liu, J.L.	Regional water circulation health evaluation system based on artificial neural network	BP artificial neural network, healthy regional water circulation, evaluation index	15, 2, 211-217	https://doi.org/10.18280/ijdne.150211	Lv, C.M., Zhang, H., Wang, X., Liu, J.L. (2020). Regional water circulation health evaluation system based on artificial neural network. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 2, pp. 211-217. https://doi.org/10.18280/ijdne.150211
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646	Aldeek, Z.A.O.	Green architecture and sustainability in the complex transformation of the built urban environment in Jordan	sustainable architecture, underdeveloped cities, affordability in green design, new thinking logarithms, new resources availability, parametric sustainability	15, 1, 113-120	https://doi.org/10.18280/ij dne.150115	Aldeek, Z.A.O. (2020). Green architecture and sustainability in the complex transformation of the built urban environment in Jordan. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 1, pp. 113-120. https://doi.org/10.18280/ij dne.150115
647	Wang, Q.W., Yan, Q., Song, M., Hou, B.J., Zhang, S.T.	Identification of kerogen type and recovery of total organic carbon in prospective survey on shale gas: An empirical analysis on coal-bearing blocks in the Junggar Basin	shale gas, kerogen, organic matter types, recovery	15, 1, 121-127	https://doi.org/10.18280/ij dne.150116	Wang, Q.W., Yan, Q., Song, M., Hou, B.J., Zhang, S.T. (2020). Identification of kerogen type and recovery of total organic carbon in prospective survey on shale gas: An empirical analysis on coal-bearing blocks in the Junggar Basin. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 1, pp. 121-127. https://doi.org/10.18280/ij dne.150116
648	Ashour, A.F.	Design responsibility and sustainability in education	responsible design, sustainable design, sustainable design education	15, 1, 129-133	https://doi.org/10.18280/ij dne.150117	Ashour, A.F. (2020). Design responsibility and sustainability in education. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 15, No. 1, pp. 129-133. https://doi.org/10.18280/ij dne.150117

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650	Randone, M., Bocci, M., Castellani, C., Laurent, C., Piante, C.	Safeguarding marine protected areas in the growing Mediterranean blue economy—recommendations for the maritime transport sector	biodiversity, blue economy, conservation, ecosystems, environmental impacts, marine protected areas, maritime transport, shipping	14, 4, 264-274	https://doi.org/10.2495/DNE-V14-N4-264-274	Randone, M., Bocci, M., Castellani, C., Laurent, C., Piante, C. (2019). Safeguarding marine protected areas in the growing Mediterranean blue economy—recommendations for the maritime transport sector. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 4, pp. 264-274. https://doi.org/10.2495/DNE-V14-N4-264-274
651	Liang, Z.T., Hewitt, R.R., Du, Y.	Research on design method for the blue-green ecological network system to deal with urban flooding: A case study of Charleston Peninsula	blue-green ecological network system, hydrological process, landscape architecture, public space system, stormwater management unit	14, 4, 275-286	https://doi.org/10.2495/DNE-V14-N4-275-286	Liang, Z.T., Hewitt, R.R., Du, Y. (2019). Research on design method for the blue-green ecological network system to deal with urban flooding: A case study of Charleston Peninsula. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 4, pp. 275-286. https://doi.org/10.2495/DNE-V14-N4-275-286
652	Sörensson, A., Bogren, M., Schmutte, U.	How do cities of different sizes in Europe work with sustainable development?	creativity, identity, rural, small city, sustainable, sustainable development	14, 4, 287-298	https://doi.org/10.2495/DNE-V14-N4-287-298	Sörensson, A., Bogren, M., Schmutte, U. (2019). How do cities of different sizes in Europe work with sustainable development? <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 4, pp. 287-298. https://doi.org/10.2495/DNE-V14-N4-287-298
653	Triboan, D., Meggi, A.	Reformulating a smart home system for the Indian context: Diu Island	ambient assisted living, Diu island, smart city mission of India, socio-cultural aware, smart homes, Urbanisation	14, 4, 299-310	https://doi.org/10.2495/DNE-V14-N4-299-310	Triboan, D., Meggi, A. (2019). Reformulating a smart home system for the Indian context: Diu Island. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 4, pp. 299-310. https://doi.org/10.2495/DNE-V14-N4-299-310
654	Boeri, A., Longo, D., Mariotti, C., Roversi, R.	Planning long-term management for historic cities. The ROCK integrated and sustainable management plan	cultural heritage, governance, historic cities, integrated management, long-term planning, urban sustainable regeneration	14, 4, 311-322	https://doi.org/10.2495/DNE-V14-N4-311-322	Boeri, A., Longo, D., Mariotti, C., Roversi, R. (2019). Planning long-term management for historic cities. The ROCK integrated and sustainable management plan. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 4, pp. 311-322. https://doi.org/10.2495/DNE-V14-N4-311-322
655	de Silva, W.	Urban agriculture and Buddhist concepts for wellbeing: Anuradhapura Sacred City, Sri Lanka	everyday life, embodied agriculture, orientation of the place, urban agriculture, wellbeing in Buddhist city	14, 3, 163-177	https://doi.org/10.2495/DNE-V14-N3-163-177	de Silva, W. (2019). Urban agriculture and Buddhist concepts for wellbeing: Anuradhapura Sacred City, Sri Lanka. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 3, pp. 163-177. https://doi.org/10.2495/DNE-V14-N3-163-177
656	Small, G.E., Mcdougall, R., Metson, G.S.	Would a sustainable city be self-sufficient in food production?	cost-benefit analysis, sustainability, resilience, trade-offs, urban agriculture	14, 3, 178-194	https://doi.org/10.2495/DNE-V14-N3-178-194	Small, G.E., Mcdougall, R., Metson, G.S. (2019). Would a sustainable city be self-sufficient in food production? <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 3, pp. 178-194. https://doi.org/10.2495/DNE-V14-N3-178-194
657	Olğun, T.N., Karatosun, M.B.	Rural architectural heritage conservation and sustainability in Turkey: The case of Karaca village of Malatya region	conservation, Malatya, rural architecture heritage, sustainability, earthen	14, 3, 195-205	https://doi.org/10.2495/DNE-V14-N3-195-205	Olğun, T.N., Karatosun, M.B. (2019). Rural architectural heritage conservation and sustainability in Turkey: The case of Karaca village of Malatya region. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 3, pp. 195-205. https://doi.org/10.2495/DNE-V14-N3-195-205
658	Mallea, M.E., Iñiñiz, L.E., Diego, M.D.L.G.D.	The balanced intervention theory: A conservative but adaptive solution for the traditional Basque architectural model	balanced intervention, conservation, protection, hygrothermal improvement, intervention degrees, traditional Basque architecture	14, 3, 206-216	https://doi.org/10.2495/DNE-V14-N3-206-216	Mallea, M.E., Iñiñiz, L.E., Diego, M.D.L.G.D. (2019). The balanced intervention theory: A conservative but adaptive solution for the traditional Basque architectural model. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 3, pp. 206-216. https://doi.org/10.2495/DNE-V14-N3-206-216
659	Chu, W.Q.	Rebuilding of the imperial gardens: An examination of feudalism production within the objectives of the Chinese modernization project	architectural, debate, historical, heritage, monument, reconstruction, restoration, value.	14, 3, 217-228	https://doi.org/10.2495/DNE-V14-N3-217-228	Chu, W.Q. (2019). Rebuilding of the imperial gardens: An examination of feudalism production within the objectives of the Chinese modernization project. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 3, pp. 217-228. https://doi.org/10.2495/DNE-V14-N3-217-228
660	Ladiana, D., Sivo, M.D.	Programmed conservation of historical and architectural heritage. Tools for optimising a process based on knowledge and information	historical-architectural heritage, preventive maintenance, maintenance technologies, HBIM	14, 3, 229-240	https://doi.org/10.2495/DNE-V14-N3-229-240	Ladiana, D., Sivo, M.D. (2019). Programmed conservation of historical and architectural heritage. Tools for optimising a process based on knowledge and information. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 3, pp. 229-240. https://doi.org/10.2495/DNE-V14-N3-229-240
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662	Poulsen, M., Lauring, M.	The historical influence of landscape, ecology and climate on Danish low-rise residential architecture	architectural history, bioclimatic design, climate adaptation, climate change, vernacular design	14, 2, 91-102	https://doi.org/10.2495/DNE-V14-N2-91-102	Poulsen, M., Lauring, M. (2019). The historical influence of landscape, ecology and climate on Danish low-rise residential architecture. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 2, pp. 91-102. https://doi.org/10.2495/DNE-V14-N2-91-102
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664	Delpino-Chamy, M., Alarcon, M., Fernández, S., Soto, J.	Methodology to identify and assess agroecological practices in metropolitan areas. Case study, Concepción, Chile	agroecology, metropolitan areas, metropolitan sustainability, Rururban interstices, socio-political organization	14, 2, 119-130	https://doi.org/10.2495/DNE-V14-N2-119-130	Delpino-Chamy, M., Alarcon, M., Fernández, S., Soto, J. (2019). Methodology to identify and assess agroecological practices in metropolitan areas. Case study, Concepción, Chile. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 2, pp. 119-130. https://doi.org/10.2495/DNE-V14-N2-119-130
665	Patiño, E., Torreblanca-Díaz, D.A., Valencia-Escobar, A., Zuleta, A.	Classification, characterization and abstraction of vegetable surfaces for design	abstraction, analogy, biomimicry, bio-inspiration, design, plant surfaces, textures.	14, 2, 131-146	https://doi.org/10.2495/DNE-V14-N2-131-146	Patiño, E., Torreblanca-Díaz, D.A., Valencia-Escobar, A., Zuleta, A. (2019). Classification, characterization and abstraction of vegetable surfaces for design. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 2, pp. 131-146. https://doi.org/10.2495/DNE-V14-N2-131-146
666	Marques, B., Tadeu, A., Almeida, J., António, J.	Experimental characterisation of cement-based composites with rice husk	rice husk, vegetable fibres, cement composites, sustainable materials	14, 2, 147-153	https://doi.org/10.2495/DNE-V14-N2-147-153	Marques, B., Tadeu, A., Almeida, J., António, J. (2019). Experimental characterisation of cement-based composites with rice husk. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 2, pp. 147-153. https://doi.org/10.2495/DNE-V14-N2-147-153

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668	Convertino, F., Vox, G., Schettini, E.	Heat transfer mechanisms in vertical green systems and energy balance equations	convection, evapotranspiration, green facades, green walls, modelling, solar radiation, urban agriculture	14, 1, 7-18	https://doi.org/10.2495/DNE-V14-N1-7-18	Convertino, F., Vox, G., Schettini, E. (2019). Heat transfer mechanisms in vertical green systems and energy balance equations. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 1, pp. 7-18. https://doi.org/10.2495/DNE-V14-N1-7-18
669	Tudorie, C.M., Gielen, E., Vallés-Planells, M., Galiana, F.	Urban green indicators: a tool to estimate the sustainability of our cities	ecosystem services, green space indicators, sustainability, urban challenges, urban green infrastructure.	14, 1, 19-29	https://doi.org/10.2495/DNE-V14-N1-19-29	Tudorie, C.M., Gielen, E., Vallés-Planells, M., Galiana, F. (2019). Urban green indicators: a tool to estimate the sustainability of our cities. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 1, pp. 19-29. https://doi.org/10.2495/DNE-V14-N1-19-29
670	Lee, T.I., Chou, Y.H., Huang, T.N.	Users' perceptions and attitudes towards edible campus	edible landscape, edible school, maintenance, productive space	14, 1, 30-40	https://doi.org/10.2495/DNE-V14-N1-30-40	Lee, T.I., Chou, Y.H., Huang, T.N. (2019). Users' perceptions and attitudes towards edible campus. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 1, pp. 30-40. https://doi.org/10.2495/DNE-V14-N1-30-40
671	Guerrero, P.D.H., Mata, L.M.M., Madrigal, P.B., Criollo, J.J.M.	Production and economic analysis of a Pop-Up Farm in Mexico City	cultivation table, low cost, mel bartholomew's system, rainwater, urban agriculture	14, 1, 41-51	https://doi.org/10.2495/DNE-V14-N1-41-51	Guerrero, P.D.H., Mata, L.M.M., Madrigal, P.B., Criollo, J.J.M. (2019). Production and economic analysis of a Pop-Up Farm in Mexico City. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 1, pp. 41-51. https://doi.org/10.2495/DNE-V14-N1-41-51
672	Baja, F.D.F., Bajracharya, S., Freeman, M.A., Gray, A.J., Haglund, B.T., Kuipers, H.R., Opatola, O.R.	LEED Gold but not equal: Two case study buildings	BREEAM, daylight analyses, energy modelling, LEED, post-occupancy evaluation, user surveys	14, 1, 52-62	https://doi.org/10.2495/DNE-V14-N1-52-62	Baja, F.D.F., Bajracharya, S., Freeman, M.A., Gray, A.J., Haglund, B.T., Kuipers, H.R., Opatola, O.R. (2019). LEED Gold but not equal: Two case study buildings. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 1, pp. 52-62. https://doi.org/10.2495/DNE-V14-N1-52-62
673	Williams, A.E., Williams, P.O.	Values-based architecture as a regenerative approach to the human-environment relationship	disconnection, modernity, regenerative architecture, sustainability, sustainable design, values, values-based architecture	14, 1, 63-74	https://doi.org/10.2495/DNE-V14-N1-63-74	Williams, A.E., Williams, P.O. (2019). Values-based architecture as a regenerative approach to the human-environment relationship. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 14, No. 1, pp. 63-74. https://doi.org/10.2495/DNE-V14-N1-63-74
674	Benis, K., Gashgari, R., Alsaati, A., Reinhart, C.	Urban Foodprints (UF)-Establishing baseline scenarios for the sustainability assessment of high-yield urban agriculture	baseline scenario, controlled-environment agriculture (CEA), sustainability assessment, urban foodprint, urban food system	13, 4, 349-360	https://doi.org/10.2495/DNE-V13-N4-349-360	Benis, K., Gashgari, R., Alsaati, A., Reinhart, C. (2018). Urban Foodprints (UF)-Establishing baseline scenarios for the sustainability assessment of high-yield urban agriculture. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 4, pp. 349-360. https://doi.org/10.2495/DNE-V13-N4-349-360
675	Miralles i Garcia, J.L.	New policies for the management of peri-urban agricultural spaces. The case of L'Horta de València (Spain)	agricultural heritage, agricultural land management, peri-urban zones management, regional planning, Valencia's huerta	13, 4, 361-372	https://doi.org/10.2495/DNE-V13-N4-361-372	Miralles i Garcia, J.L. (2018). New policies for the management of peri-urban agricultural spaces. The case of L'Horta de València (Spain). <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 4, pp. 361-372. https://doi.org/10.2495/DNE-V13-N4-361-372
676	Gaxiola, I.E., Chalfoun, N.V., Moeller, C.	Architectural implementation of vegetated cover from agriculture for restoring human thermal comfort and mitigating the urban heat island effect in arid regions	fish-eye lens photograph, hemispherical photography, human thermal comfort, human view-factor, mean radiant temperature, urban agriculture, urban heat island	13, 4, 373-383	https://doi.org/10.2495/DNE-V13-N4-373-383	Gaxiola, I.E., Chalfoun, N.V., Moeller, C. (2018). Architectural implementation of vegetated cover from agriculture for restoring human thermal comfort and mitigating the urban heat island effect in arid regions. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 4, pp. 373-383. https://doi.org/10.2495/DNE-V13-N4-373-383
677	Blanco, I., Schettini, E., Vox, G.	Effects of vertical green technology on building surface temperature	air-conditioning, energy savings, green walls, regression model, urban agriculture, urban heat island	13, 4, 384-394	https://doi.org/10.2495/DNE-V13-N4-384-394	Blanco, I., Schettini, E., Vox, G. (2018). Effects of vertical green technology on building surface temperature. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 4, pp. 384-394. https://doi.org/10.2495/DNE-V13-N4-384-394
678	De Linares, P.G.	Comparing urban food systems between temperate regions and tropical regions-introducing urban agroforestry in temperate climates through the case of Budapest	Agro-ecology, food security, landscape architecture, sustainable food system	13, 4, 395-406	https://doi.org/10.2495/DNE-V13-N4-395-406	De Linares, P.G. (2018). Comparing urban food systems between temperate regions and tropical regions- introducing urban agroforestry in temperate climates through the case of Budapest. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 4, pp. 395-406. https://doi.org/10.2495/DNE-V13-N4-395-406
679	Pinilla, K., Hoinle, B., Mahecha-Groot, A., Cepeda, J.	Mapping the agrodiversity in Bogotá-the platform mapeo AgroEcoBogotá	agroecology, counter-mapping, critical cartography, social movements, urban agriculture	13, 4, 407-414	https://doi.org/10.2495/DNE-V13-N4-407-414	Pinilla, K., Hoinle, B., Mahecha-Groot, A., Cepeda, J. (2018). Mapping the agrodiversity in Bogotá-the platform mapeo AgroEcoBogotá. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 4, pp. 407-414. https://doi.org/10.2495/DNE-V13-N4-407-414
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681	Rzevski, G.	Coevolution of technology, business and society	coevolution, complexity, emergence, selforganisation	13, 3, 231-237	https://doi.org/10.2495/DNE-V13-N3-231-237	Rzevski, G. (2018). Coevolution of technology, business and society. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 3, pp. 231-237. https://doi.org/10.2495/DNE-V13-N3-231-237
682	Engelseth, P., White, B.E.	On people and complexity in healthcare service supply	case studies, collaboration, complex systems engineering, complex systems, ecosystems, healthcare services, information systems, interdependencies, logistics, process emergence, supply chain management	13, 3, 238-249	https://doi.org/10.2495/DNE-V13-N3-238-249	Engelseth, P., White, B.E. (2018). On people and complexity in healthcare service supply. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 3, pp. 238-249. https://doi.org/10.2495/DNE-V13-N3-238-249
683	Barelkowski, R.	The beauty of architectural complexity	architectural idea (concept), architecture, beauty, complexity	13, 3, 250-259	https://doi.org/10.2495/DNE-V13-N3-250-259	Barelkowski, R. (2018). The beauty of architectural complexity. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 3, pp. 250-259. https://doi.org/10.2495/DNE-V13-N3-250-259
684	Kuehn, W.	Digital twins for decision making in complex production and logistic enterprises	digital enterprise, digital twin, factory simulation, virtual model	13, 3, 260-271	https://doi.org/10.2495/DNE-V13-N3-260-271	Kuehn, W. (2018). Digital twins for decision making in complex production and logistic enterprises. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 3, pp. 260-271. https://doi.org/10.2495/DNE-V13-N3-260-271

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686	Mitic, P.	A complexity framework for consensus and conflict	beta distribution, conflict, consensus, convergence, influence, resistance, sentiment, simulation	13, 3, 281-293	https://doi.org/10.2495/DNE-V13-N3-281-293	Mitic, P. (2018). A complexity framework for consensus and conflict. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 3, pp. 281-293. https://doi.org/10.2495/DNE-V13-N3-281-293
687	Ponziani, F.A., Tinaburri, A., Ricci, V.	Adaptive design: water curtains for layout finding in hub spaces	adaptation, CFD, complex systems, edge nozzle, fire, FSE, water curtain	13, 3, 294-306	https://doi.org/10.2495/DNE-V13-N3-294-306	Ponziani, F.A., Tinaburri, A., Ricci, V. (2018). Adaptive design: water curtains for layout finding in hub spaces. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 3, pp. 294-306. https://doi.org/10.2495/DNE-V13-N3-294-306
688	Budaev, D., Lada, A., Simonova, E., Skobelev, P., Travin, V., Yalovenko, O., Voshchuk, G., Zhilyaev, A.	Conceptual design of smart farming solution for precise agriculture	multi-agent technology, ontology, precise agriculture, real time, smart farming	13, 3, 307-314	https://doi.org/10.2495/DNE-V13-N3-307-314	Budaev, D., Lada, A., Simonova, E., Skobelev, P., Travin, V., Yalovenko, O., Voshchuk, G., Zhilyaev, A. (2018). Conceptual design of smart farming solution for precise agriculture. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 3, pp. 307-314. https://doi.org/10.2495/DNE-V13-N3-307-314
689	Dias, B.D.	Regenerative development-building evolutive capacity for healthy living systems	evolutionary systems thinking, regeneration, regenerative development, sustainability	13, 3, 315-323	https://doi.org/10.2495/DNE-V13-N3-315-323	Dias, B.D. (2018). Regenerative development-building evolutive capacity for healthy living systems. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 3, pp. 315-323. https://doi.org/10.2495/DNE-V13-N3-315-323
690	Sitnikov, D., Ryabov, O., Mishcheriakov, I., Kovalenko, A.	A rough set based algebraic approach to modelling complex systems	big data, complex system, knowledge discovery, rough set, system decomposition, uncertainty in data	13, 3, 324-329	https://doi.org/10.2495/DNE-V13-N3-324-329	Sitnikov, D., Ryabov, O., Mishcheriakov, I., Kovalenko, A. (2018). A rough set based algebraic approach to modelling complex systems. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 3, pp. 324-329. https://doi.org/10.2495/DNE-V13-N3-324-329
691	Furman, A.	Anticipating a fluid, dynamic interiority	affordances, anonymity, autonomous vehicles, display windows, glazing, interiority, mobility, privacy, public realm, public space design, streets, technology, the interior	13, 3, 330-340	https://doi.org/10.2495/DNE-V13-N3-330-340	Furman, A. (2018). Anticipating a fluid, dynamic interiority. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 3, pp. 330-340. https://doi.org/10.2495/DNE-V13-N3-330-340
692	Cialdea, D., Quercio, N.	A methodology for illegal settlements re-conversion	agricultural land, illegal settlements, landscape quality	13, 2, 147-155	https://doi.org/10.2495/DNE-V13-N2-147-155	Cialdea, D., Quercio, N. (2018). A methodology for illegal settlements re-conversion. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 2, pp. 147-155. https://doi.org/10.2495/DNE-V13-N2-147-155
693	Cruz Santos, G.	Characteristics of rodent outbreaks in the Low San Francisco Sergipano (Sergipe, Brazil) and influence of anomalies on sea surface temperature on temperatures in this region	'El Niño', brazil, floodplain, lower san francisco sergipano, rodent outbreaks, SOI	13, 2, 156-165	https://doi.org/10.2495/DNE-V13-N2-156-165	Cruz Santos, G. (2018). Characteristics of rodent outbreaks in the Low San Francisco Sergipano (Sergipe, Brazil) and influence of anomalies on sea surface temperature on temperatures in this region. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 2, pp. 156-165. https://doi.org/10.2495/DNE-V13-N2-156-165
694	Gitelman, L.D., Ryzhuk, O.B., Kozhevnikov, M.V.	Visual analysis for conceptual design of complex systems	complex systems, concept, conceptual design, decomposition, model, multi-project, visual analysis, visual language, visualization	13, 2, 166-175	https://doi.org/10.2495/DNE-V13-N2-166-175	Gitelman, L.D., Ryzhuk, O.B., Kozhevnikov, M.V. (2018). Visual analysis for conceptual design of complex systems. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 2, pp. 166-175. https://doi.org/10.2495/DNE-V13-N2-166-175
695	Farkas, T.D., Király, T., Pardy, T., Rang, T., Rang, G.	Application of power line communication technology in street lighting control	intelligent lighting control, modulation techniques, power line communication, smart city, smart grid	13, 2, 176-186	https://doi.org/10.2495/DNE-V13-N2-176-186	Farkas, T.D., Király, T., Pardy, T., Rang, T., Rang, G. (2018). Application of power line communication technology in street lighting control. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 2, pp. 176-186. https://doi.org/10.2495/DNE-V13-N2-176-186
696	Skobelev, P.O., Lakhin, O.I.	Towards the digital platform and smart services for managing space traffic	digital platforms, ground stations, management of conflicts, networks of services, planning and control, real time, satellites, space traffic, spacecrafts	13, 2, 187-198	https://doi.org/10.2495/DNE-V13-N2-187-198	Skobelev, P.O., Lakhin, O.I. (2018). Towards the digital platform and smart services for managing space traffic. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 2, pp. 187-198. https://doi.org/10.2495/DNE-V13-N2-187-198
697	Engelseth, P., Gundersen, D.	Lean and complex systems: a case study of materials handling at an on-land warehouse facility supporting subsea gas operations	case study, complex systems, lean, material handling, Norwegian petroleum industry, services industry, warehouse management	13, 2, 199-207	https://doi.org/10.2495/DNE-V13-N2-199-207	Engelseth, P., Gundersen, D. (2018). Lean and complex systems: a case study of materials handling at an on-land warehouse facility supporting subsea gas operations. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 2, pp. 199-207. https://doi.org/10.2495/DNE-V13-N2-199-207
698	Gitelman, L.D., Gavrilova, T.B., Kozhevnikov, M.V., Starikov, E.M.	Ensuring resilience and agility of complex organizational-technical systems	agility, critical infrastructure, CURVE factors, organizational and technical system, Resil-ience, systems engineering	13, 2, 208-220	https://doi.org/10.2495/DNE-V13-N2-208-220	Gitelman, L.D., Gavrilova, T.B., Kozhevnikov, M.V., Starikov, E.M. (2018). Ensuring resilience and agility of complex organizational-technical systems. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 2, pp. 208-220. https://doi.org/10.2495/DNE-V13-N2-208-220
699	White, B.E.	Fathoming the future of artificially intelligent robots	artificial intelligence, behaviors, complex systems, complex systems engineering, families of robots, global issues, humans, jobs, robots, social systems	13, 1, 1-15	https://doi.org/10.2495/DNE-V13-N1-1-15	White, B.E. (2018). Fathoming the future of artificially intelligent robots. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 1, pp. 1-15. https://doi.org/10.2495/DNE-V13-N1-1-15
700	Bertotti, M.L., Chattopadhyay, A.K., Modanese, G.	Uncertainty dynamics in a model of economic inequality	additive and multiplicative noise, economic inequality, income distribution, social mobility	13, 1, 16-22	https://doi.org/10.2495/DNE-V13-N1-16-22	Bertotti, M.L., Chattopadhyay, A.K., Modanese, G. (2018). Uncertainty dynamics in a model of economic inequality. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 1, pp. 16-22. https://doi.org/10.2495/DNE-V13-N1-16-22
701	Warren Axelrod, C.	Integrating in-vehicle, vehicle-to-vehicle, and intelligent roadway systems	adaptive, autonomous, complex, complicated, driverless, In-vehicle, self-driving, self-organizing, systems-of-systems, vehicle and traffic control systems, vehicle-to-infrastructure, vehicle-to-vehicle.	13, 1, 23-38	https://doi.org/10.2495/DNE-V13-N1-23-38	Warren Axelrod, C. (2018). Integrating in-vehicle, vehicle-to-vehicle, and intelligent roadway systems. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 1, pp. 23-38. https://doi.org/10.2495/DNE-V13-N1-23-38
702	Skobelev, P., Budaev, D., Brankovsky, A., Voschuk, G.	Multi-agent tasks scheduling for coordinated actions of unmanned aerial vehicles acting in group	adaptability, coordinated control, drones, dynamic rescheduling, intelligence, multi-agent systems, real time, uav, unmanned aerial vehicle	13, 1, 39-45	https://doi.org/10.2495/DNE-V13-N1-39-45	Skobelev, P., Budaev, D., Brankovsky, A., Voschuk, G. (2018). Multi-agent tasks scheduling for coordinated actions of unmanned aerial vehicles acting in group. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 1, pp. 39-45. https://doi.org/10.2495/DNE-V13-N1-39-45

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704	Esteve, M., Miró, F., Rabasa, A.	Classification of tweets with a mixed method based on pragmatic content and meta-information	analysis, big data, classification, social networks	13, 1, 60-70	https://doi.org/10.2495/DNE-V13-N1-60-70	Esteve, M., Miró, F., Rabasa, A. (2018). Classification of tweets with a mixed method based on pragmatic content and meta-information. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 1, pp. 60-70. https://doi.org/10.2495/DNE-V13-N1-60-70
705	Hoyland, C.A.	The reinforced enterprise business architecture (rebar) ontology	business plans, enterprise, knowledge management, ontology, semantic web, strategic goals, systems engineering	13, 1, 71-81	https://doi.org/10.2495/DNE-V13-N1-71-81	Hoyland, C.A. (2018). The reinforced enterprise business architecture (rebar) ontology. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 1, pp. 71-81. https://doi.org/10.2495/DNE-V13-N1-71-81
706	Porter, T.B., Reischer, R.	A complexity perspective on csr and sustainability: theory and a longitudinal case study	company responsibility, complexity theory, corporate social responsibility, high performance work systems, modern working practices, resilience, strategic human resources management, sustainability, sustainability adoption processes	13, 1, 82-92	https://doi.org/10.2495/DNE-V13-N1-82-92	Porter, T.B., Reischer, R. (2018). A complexity perspective on csr and sustainability: theory and a longitudinal case study. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 1, pp. 82-92. https://doi.org/10.2495/DNE-V13-N1-82-92
707	Taduran, R.J.O., Ranjitkar, S., Hughes, T., Townsend, G., Brook, A.H.	Two complex adaptive systems in human development: further studies of dental and fingerprint parameters	buccolingual, complex adaptive system, dentition, dermatoglyphics, fingerprints, human development, ridge breadth, sexual dimorphism, tooth size	13, 1, 93-100	https://doi.org/10.2495/DNE-V13-N1-93-100	Taduran, R.J.O., Ranjitkar, S., Hughes, T., Townsend, G., Brook, A.H. (2018). Two complex adaptive systems in human development: further studies of dental and fingerprint parameters. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 1, pp. 93-100. https://doi.org/10.2495/DNE-V13-N1-93-100
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709	Patel, D., Sassani, S., Farella, M., Ranjitkar, S., Yong, R., Swindells, S., Brook, A.	Variations in dental arch morphology are outcomes of the complex adaptive system associated with the developmental variation of hypodontia	3D imaging, dental arch, hypodontia, measurements, morphology, reliability, repeatability	13, 1, 107-113	https://doi.org/10.2495/DNE-V13-N1-107-113	Patel, D., Sassani, S., Farella, M., Ranjitkar, S., Yong, R., Swindells, S., Brook, A. (2018). Variations in dental arch morphology are outcomes of the complex adaptive system associated with the developmental variation of hypodontia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 1, pp. 107-113. https://doi.org/10.2495/DNE-V13-N1-107-113
710	Sassani, S., Patel, D., Farella, M., Henneberg, M., Ranjitkar, S., Yong, R., Swindells, S., Brook, A.H.	Variation in tooth crown size and shape are outcomes of the complex adaptive system associated with the tooth number variation of hypodontia	3D-imaging, complex adaptive system, error, hypodontia, inter, intra, linear, measurement, reliability, reproducibility	13, 1, 114-120	https://doi.org/10.2495/DNE-V13-N1-114-120	Sassani, S., Patel, D., Farella, M., Henneberg, M., Ranjitkar, S., Yong, R., Swindells, S., Brook, A.H. (2018). Variation in tooth crown size and shape are outcomes of the complex adaptive system associated with the tooth number variation of hypodontia. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 1, pp. 114-120. https://doi.org/10.2495/DNE-V13-N1-114-120
711	Santos Reyes, D.E.	On the formation of mexico state	change, complexity, novelty, systems	13, 1, 121-127	https://doi.org/10.2495/DNE-V13-N1-121-127	Santos Reyes, D.E. (2018). On the formation of mexico state. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 1, pp. 121-127. https://doi.org/10.2495/DNE-V13-N1-121-127
712	Sadia, R.	Group modeling building: how environment, culture and work conditions impact on the process	culture, feedback loops, group modeling process, knowledge elicitation	13, 1, 128-135	https://doi.org/10.2495/DNE-V13-N1-128-135	Sadia, R. (2018). Group modeling building: how environment, culture and work conditions impact on the process. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 13, No. 1, pp. 128-135. https://doi.org/10.2495/DNE-V13-N1-128-135
713	Marchi, M., Niccolucci, V., Pulselli, R.M., Marchettini, N.	Urban sustainability: Co2 uptake by green areas in the historic centre of siena	CO2 uptake, green areas, Siena, urban ecosystem	12, 4, 407-417	https://doi.org/10.2495/DNE-V12-N4-407-417	Marchi, M., Niccolucci, V., Pulselli, R.M., Marchettini, N. (2017). Urban sustainability: Co2 uptake by green areas in the historic centre of siena. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 4, pp. 407-417. https://doi.org/10.2495/DNE-V12-N4-407-417
714	Raut, R., Gudmestad, O.T.	Use of bioengineering techniques to prevent landslides in nepal for hydropower development	bioengineering techniques, development, hydropower, landslides, Nepal	12, 4, 418-427	https://doi.org/10.2495/DNE-V12-N4-418-427	Raut, R., Gudmestad, O.T. (2017). Use of bioengineering techniques to prevent landslides in nepal for hydropower development. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 4, pp. 418-427. https://doi.org/10.2495/DNE-V12-N4-418-427
715	Barlozzini, P.	The representation of landscape: some considerations on its origins	landscape, representation, survey, sustainability	12, 4, 428-437	https://doi.org/10.2495/DNE-V12-N4-428-437	Barlozzini, P. (2017). The representation of landscape: some considerations on its origins. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 4, pp. 428-437. https://doi.org/10.2495/DNE-V12-N4-428-437
716	Simic, K., Gendvilas, V., O'reilly, C., Nieuwenhuis, M., Harte, A.M.	The influence of planting density on modulus of elasticity of structural timber from Irish-grown Sitka spruce	Irish grown Sitka spruce, planting density, structural timber performance	12, 4, 438-447	https://doi.org/10.2495/DNE-V12-N4-438-447	Simic, K., Gendvilas, V., O'reilly, C., Nieuwenhuis, M., Harte, A.M. (2017). The influence of planting density on modulus of elasticity of structural timber from Irish-grown Sitka spruce. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 4, pp. 438-447. https://doi.org/10.2495/DNE-V12-N4-438-447
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719	Megoldrick, T.A.	The religious case for water as a human right from the andes	bolivia, development ethics, indigenous, post-neoliberalism, privatization, rights of nature, water rights	12, 4, 470-481	https://doi.org/10.2495/DNE-V12-N4-470-481	Megoldrick, T.A. (2017). The religious case for water as a human right from the andes. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 4, pp. 470-481. https://doi.org/10.2495/DNE-V12-N4-470-481
720	Rabasa, A., Pérez-martín, A., Giner, D.	Optimal clustering techniques for the segmentation of tourist spending. Analysis of tourist surveys in the valencian community (spain): a case study	big data, clustering, optimization, surveys analysis, tourism	12, 4, 482-491	https://doi.org/10.2495/DNE-V12-N4-482-491	Rabasa, A., Pérez-martín, A., Giner, D. (2017). Optimal clustering techniques for the segmentation of tourist spending. Analysis of tourist surveys in the valencian community (spain): a case study. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 4, pp. 482-491. https://doi.org/10.2495/DNE-V12-N4-482-491

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722	Vleugel, J.M., Bal, F.	More space and improved living conditions in cities with autonomous vehicles	car technology, externalities, mobility, space, sustainable planning	12, 4, 505-515	https://doi.org/10.2495/DNE-V12-N4-505-515	Vleugel, J.M., Bal, F. (2017). More space and improved living conditions in cities with autonomous vehicles. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 4, pp. 505-515. https://doi.org/10.2495/DNE-V12-N4-505-515
723	Engelseth, P., Kvadsheim, N.P.	Conceptual modelling of upstream offshore seaweed supply	aquaculture, cold chains, ecosystems, petroleum logistics, seaweed, supply chain management, traceability	12, 4, 516-524	https://doi.org/10.2495/DNE-V12-N4-516-524	Engelseth, P., Kvadsheim, N.P. (2017). Conceptual modelling of upstream offshore seaweed supply. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 4, pp. 516-524. https://doi.org/10.2495/DNE-V12-N4-516-524
724	Gitelman, L.D., Sandler, D.G., Gavrilova, T.B., Kozhevnikov, M.V.	Complex systems management competency for technology modernization	complex systems, electric power industry, engineering and economic competencies, industry, systems engineering, technology modernization	12, 4, 525-537	https://doi.org/10.2495/DNE-V12-N4-525-537	Gitelman, L.D., Sandler, D.G., Gavrilova, T.B., Kozhevnikov, M.V. (2017). Complex systems management competency for technology modernization. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 4, pp. 525-537. https://doi.org/10.2495/DNE-V12-N4-525-537
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726	Estruch-guitart, V., Vallés-planells, M.	The economic value of landscape aesthetics in Albufera natural park through the analytic multicriteria valuation method	analytical hierarchy process, economic value, landscape valuation, multicriteria decision making, wetland	12, 3, 281-302	https://doi.org/10.2495/DNE-V12-N3-281-302	Estruch-guitart, V., Vallés-planells, M. (2017). The economic value of landscape aesthetics in Albufera natural park through the analytic multicriteria valuation method. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 3, pp. 281-302. https://doi.org/10.2495/DNE-V12-N3-281-302
727	Fauzi, N.S.M., Misni, A.	Conserving geo-diversity: the importance of valuing the heritage elements at Langkawi Geopark	geo-diversity, geopark, heritage, preservation	12, 3, 303-313	https://doi.org/10.2495/DNE-V12-N3-303-313	Fauzi, N.S.M., Misni, A. (2017). Conserving geo-diversity: the importance of valuing the heritage elements at Langkawi Geopark. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 3, pp. 303-313. https://doi.org/10.2495/DNE-V12-N3-303-313
728	Cialdea, D., Cacucci, S.	The river's contract: an opportunity for new landscape planning activities	land use, landscape planning, river contracts	12, 3, 314-323	https://doi.org/10.2495/DNE-V12-N3-314-323	Cialdea, D., Cacucci, S. (2017). The river's contract: an opportunity for new landscape planning activities. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 3, pp. 314-323. https://doi.org/10.2495/DNE-V12-N3-314-323
729	Calleros-islas, A.	The practice of sustainability in response to the challenges of agriculture in Mexico	agroecosystems, local development, organic agriculture, policy-making, sustainability	12, 3, 324-337	https://doi.org/10.2495/DNE-V12-N3-324-337	Calleros-islas, A. (2017). The practice of sustainability in response to the challenges of agriculture in Mexico. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 3, pp. 324-337. https://doi.org/10.2495/DNE-V12-N3-324-337
730	Ketschau, T.J.	Social sustainable development or sustainable social development-two sides of the same coin? the structure of social justice as a normative basis for the social dimension of sustainability	normative, reflexive-dialectical approach, social sustainability, social justice, social development	12, 3, 338-347	https://doi.org/10.2495/DNE-V12-N3-338-347	Ketschau, T.J. (2017). Social sustainable development or sustainable social development-two sides of the same coin? the structure of social justice as a normative basis for the social dimension of sustainability. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 3, pp. 338-347. https://doi.org/10.2495/DNE-V12-N3-338-347
731	Engelseth, P.	Reverse logistics as a complex system: a case study of waste management in the Norwegian offshore petroleum industry	case study, contingency theory, interdependencies, Norwegian petroleum industry, reverse logistics, supply chain management	12, 3, 348-356	https://doi.org/10.2495/DNE-V12-N3-348-356	Engelseth, P. (2017). Reverse logistics as a complex system: a case study of waste management in the Norwegian offshore petroleum industry. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 3, pp. 348-356. https://doi.org/10.2495/DNE-V12-N3-348-356
732	Brancart, S., Paduart, A., Vergauwen, A., Vanderaeren, C., De laet, L., Temmerman, N.D.	Transformable structures: materialising design for change	BIM, deployable structures, design for change, Kit-of-Parts structures, material flows, prototyping, transformable structures	12, 3, 357-366	https://doi.org/10.2495/DNE-V12-N3-357-366	Brancart, S., Paduart, A., Vergauwen, A., Vanderaeren, C., De laet, L., Temmerman, N.D. (2017). Transformable structures: materialising design for change. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 3, pp. 357-366. https://doi.org/10.2495/DNE-V12-N3-357-366
733	Devine, S.	The information requirements of complex biological and economic systems with algorithmic information theory	algorithmic information theory, economic complexity and economic order, emergence, energy and economic sustainability, non-equilibrium economics	12, 3, 367-376	https://doi.org/10.2495/DNE-V12-N3-367-376	Devine, S. (2017). The information requirements of complex biological and economic systems with algorithmic information theory. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 3, pp. 367-376. https://doi.org/10.2495/DNE-V12-N3-367-376
734	Clymer, J.R.	Mathematics of complex adaptive systems	complex adaptive systems, intelligent agents, interacting concurrent processes	12, 3, 377-384	https://doi.org/10.2495/DNE-V12-N3-377-384	Clymer, J.R. (2017). Mathematics of complex adaptive systems. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 3, pp. 377-384. https://doi.org/10.2495/DNE-V12-N3-377-384
735	Rosenhouse, J.	Fractals as a metaphor in dialectology	Arabic dialects, dialects, fractals, language	12, 3, 385-395	https://doi.org/10.2495/DNE-V12-N3-385-395	Rosenhouse, J. (2017). Fractals as a metaphor in dialectology. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 3, pp. 385-395. https://doi.org/10.2495/DNE-V12-N3-385-395
736	Boothroyd, R.G.	The Heraclitean nature of time in the platform for life and its relationship with Parmenidean reality	darwinian evolution, heraclitean time, parmenidean time, quantum decoherence, quantum entanglement, qubit design	12, 2, 143-155	https://doi.org/10.2495/DNE-V12-N2-143-155	Boothroyd, R.G. (2017). The Heraclitean nature of time in the platform for life and its relationship with Parmenidean reality. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 2, pp. 143-155. https://doi.org/10.2495/DNE-V12-N2-143-155
737	Vaughan, J., Ostwald, M.J.	The comparative numerical analysis of nature and architecture: a new framework	fractal dimension, landscape analysis, visual complexity	12, 2, 156-166	https://doi.org/10.2495/DNE-V12-N2-156-166	Vaughan, J., Ostwald, M.J. (2017). The comparative numerical analysis of nature and architecture: a new framework. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 2, pp. 156-166. https://doi.org/10.2495/DNE-V12-N2-156-166
738	Bonetti, V., Robazza, P.	The irreversible evolution of buildings	buildings, exergy, irreversibility, low-cost, spontaneous processes	12, 2, 167-175	https://doi.org/10.2495/DNE-V12-N2-167-175	Bonetti, V., Robazza, P. (2017). The irreversible evolution of buildings. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 2, pp. 167-175. https://doi.org/10.2495/DNE-V12-N2-167-175

739	Phocas, M.C., Kontovourkis, O., Georgiou, N.I.	High-rise airflow structural concept	bending-active members, high-rise buildings, hybrid systems, kinetic structures	12, 2, 176-184	https://doi.org/10.2495/DNE-V12-N2-176-184	Phocas, M.C., Kontovourkis, O., Georgiou, N.I. (2017). High-rise airflow structural concept. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 2, pp. 176-184. https://doi.org/10.2495/DNE-V12-N2-176-184
740	Kennedy, B.S.	The de Mestral Project: using macro photo-journaling to stimulate interest in bio-inspired design and science, technology, engineering and mathematics disciplines	bio-inspiration, bio-inspired design, biomimicry, biomimetics, interdisciplinary collaboration, innovation, sustainable design, STEM	12, 2, 185-193	https://doi.org/10.2495/DNE-V12-N2-185-193	Kennedy, B.S. (2017). The de Mestral Project: using macro photo-journaling to stimulate interest in bio-inspired design and science, technology, engineering and mathematics disciplines. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 2, pp. 185-193. https://doi.org/10.2495/DNE-V12-N2-185-193
741	Ozer, D.G., Kavakoglu, A.A.	Movement as a design parameter: studio works 2014–2016	architectural design, computational thinking, design education, design thinking, movement	12, 2, 194-203	https://doi.org/10.2495/DNE-V12-N2-194-203	Ozer, D.G., Kavakoglu, A.A. (2017). Movement as a design parameter: studio works 2014–2016. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 2, pp. 194-203. https://doi.org/10.2495/DNE-V12-N2-194-203
742	Lotfi, N.G.	Evolutionary design: the application of biological strategies in the product design process	evolution, product design, processes, sustainability, strategies	12, 2, 204-213	https://doi.org/10.2495/DNE-V12-N2-204-213	Lotfi, N.G. (2017). Evolutionary design: the application of biological strategies in the product design process. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 2, pp.204-213. https://doi.org/10.2495/DNE-V12-N2-204-213
743	El-mahdy, D., Gabr, H.S.	Behavior of natural organisms as a mimicking tool in architecture	biomimicry, computational process, material, organism behavior, performance, rules in nature, responsive, robotic fabrication	12, 2, 214-224	https://doi.org/10.2495/DNE-V12-N2-214-224	El-mahdy, D., Gabr, H.S. (2017). Behavior of natural organisms as a mimicking tool in architecture. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 2, pp. 214-224. https://doi.org/10.2495/DNE-V12-N2-214-224
744	De silva, W.	Nature and buddhist architecture: Sri Lanka	buddhist performance, buddhist architecture, chora, natural landscape, Sri Lanka, sense of place, topos	12, 2, 225-234	https://doi.org/10.2495/DNE-V12-N2-225-234	De silva, W. (2017). Nature and buddhist architecture: Sri Lanka. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 2, pp. 225-234. https://doi.org/10.2495/DNE-V12-N2-225-234
745	Wang, Q., Teuffel, P.	Adaptive structures and design concept of transformable joints	adaptive geometry, adaptive stiffness, control of DOF, deformation, energy dissipation, flexible components, stiff components, transformable joints	12, 2, 235-245	https://doi.org/10.2495/DNE-V12-N2-235-245	Wang, Q., Teuffel, P. (2017). Adaptive structures and design concept of transformable joints. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 2, pp. 235-245. https://doi.org/10.2495/DNE-V12-N2-235-245
746	Kusbiantoro, A., Embong, R., Shafiq, N.	Adaptation of eco-friendly approach in the production of soluble pozzolanic material	eco-friendly, pozzolanic materials, sugarcane bagasse, silica	12, 2, 246-253	https://doi.org/10.2495/DNE-V12-N2-246-253	Kusbiantoro, A., Embong, R., Shafiq, N. (2017). Adaptation of eco-friendly approach in the production of soluble pozzolanic material. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 2, pp.246-253. https://doi.org/10.2495/DNE-V12-N2-246-253
747	Fath, B.D.	Systems ecology, energy networks, and a path to sustainability	autocatalysis, ecological goal functions, network analysis, succession, sustainability, systems ecology, thermodynamics	12, 1, 1-15	https://doi.org/10.2495/DNE-V12-N1-1-15	Fath, B.D. (2017). Systems ecology, energy networks, and a path to sustainability. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 1, pp. 1-15. https://doi.org/10.2495/DNE-V12-N1-1-15
748	Nguyen, A.T., Reiter, S.	Bioclimatism in architecture: an evolutionary perspective	bioclimatic architecture, climate change, eco-adaptive architecture, evolution, evolutionary optimization, vernacular architecture	12, 1, 16-29	https://doi.org/10.2495/DNE-V12-N1-16-29	Nguyen, A.T., Reiter, S. (2017). Bioclimatism in architecture: an evolutionary perspective. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 1, pp. 16-29. https://doi.org/10.2495/DNE-V12-N1-16-29
749	Bernad, E.S., Bernad, S.I., Totorean, A.F., Bosioc, A.I., Sargan, I.	Flow patterns in helical-type graft: biomedical applications	bypass graft, helical graft, particle mixing, secondary flow	12, 1, 30-43	https://doi.org/10.2495/DNE-V12-N1-30-43	Bernad, E.S., Bernad, S.I., Totorean, A.F., Bosioc, A.I., Sargan, I. (2017). Flow patterns in helical-type graft: biomedical applications. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 1, pp. 30-43. https://doi.org/10.2495/DNE-V12-N1-30-43
750	Boregowda, S., Handy, R., Sleeth, D., Merryweather, A.	Constructural model of fits's law to predict speed-accuracy trade-off	adaptive, constructal law, fits's law, human-machine interface, minimum travel time	12, 1, 44-54	https://doi.org/10.2495/DNE-V12-N1-44-54	Boregowda, S., Handy, R., Sleeth, D., Merryweather, A. (2017). Constructal model of fits's law to predict speed-accuracy trade-off. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 1, pp. 44-54. https://doi.org/10.2495/DNE-V12-N1-44-54
751	Poljak, D., Cvetković, M., Dodig, H., Peratta, A.	Electromagnetic-thermal analysis for human exposure to high frequency (HF) radiation	high frequency radiation, human brain, human exposure, human eye, specific absorption rate, temperature increase	12, 1, 55-67	https://doi.org/10.2495/DNE-V12-N1-55-67	Poljak, D., Cvetković, M., Dodig, H., Peratta, A. (2017). Electromagnetic-thermal analysis for human exposure to high frequency (HF) radiation. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 1, pp. 55-67. https://doi.org/10.2495/DNE-V12-N1-55-67
752	Cloete, C.E.	The built environment as a complex system	boundaries, built environment, complex system, criteria, entities, methodology	12, 1, 68-74	https://doi.org/10.2495/DNE-V12-N1-68-74	Cloete, C.E. (2017). The built environment as a complex system. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 1, pp. 68-74. https://doi.org/10.2495/DNE-V12-N1-68-74
753	Higashimachi, T., Liu, Y., Oshikata, T., Toriya, R.	Improvement of sound conduction efficiency from the viewpoint of vibration characteristics of the human middle ear	artificial stapes, auditory ossicles, fem, geometric model, human middle ear, solidworks, sound pressure, tympanic membrane, tympanoplasty operation	12, 1, 75-85	https://doi.org/10.2495/DNE-V12-N1-75-85	Higashimachi, T., Liu, Y., Oshikata, T., Toriya, R. (2017). Improvement of sound conduction efficiency from the viewpoint of vibration characteristics of the human middle ear. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 1, pp. 75-85. https://doi.org/10.2495/DNE-V12-N1-75-85
754	Phocas, M.C., Kontovourkis, O., Alexandrou, K.	Post-reflecting on the process of integral design of an adaptive footbridge structure using bending-active principles	adaptive structures, bending-active members, hybrid systems, integral design, interdisciplinary design	12, 1, 86-100	https://doi.org/10.2495/DNE-V12-N1-86-100	Phocas, M.C., Kontovourkis, O., Alexandrou, K. (2017). Post-reflecting on the process of integral design of an adaptive footbridge structure using bending-active principles. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 1, pp. 86-100. https://doi.org/10.2495/DNE-V12-N1-86-100
755	Manusov, V., Matrenin, P., Kokin, S.	Swarm intelligence algorithms for the problem of the optimal placement and operation control of reactive power sources into power grids	deep compensation, dynamic optimization problems, operation control, power supply systems, swarm intelligence	12, 1, 101-112	https://doi.org/10.2495/DNE-V12-N1-101-112	Manusov, V., Matrenin, P., Kokin, S. (2017). Swarm intelligence algorithms for the problem of the optimal placement and operation control of reactive power sources into power grids. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 1, pp. 101-112. https://doi.org/10.2495/DNE-V12-N1-101-112
756	Gitelman, L.M., Gitelman, L.D., Denisov, A.V.	Comparison of competitiveness of grid companies and industrial companies' own generating units	comparative efficiency of small-scale power generation projects and grid electricity, competitiveness of power grid, cost of electricity production, development of small-scale and distributed power generation, electricity tariffs	12, 1, 113-123	https://doi.org/10.2495/DNE-V12-N1-113-123	Gitelman, L.M., Gitelman, L.D., Denisov, A.V. (2017). Comparison of competitiveness of grid companies and industrial companies' own generating units. <i>International Journal of Design & Nature and Ecodynamics</i> , Vol. 12, No. 1, pp. 113-123. https://doi.org/10.2495/DNE-V12-N1-113-123

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