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1	Bahri, H., Harrag, A.	PEM Fuel Cell Hydrogen Support Using PV-Electrolyzer Generation System	Photovoltaic, PV, Fuel cell, PEMFC, Electrolyzer, MPPT	24, 2, 55-65	<a href="https://doi.org/10.14447/jnmes.v24i2.a01">https://doi.org/10.14447/jnmes.v24i2.a01</a>	Bahri, H., Harrag, A. (2021). PEM fuel cell hydrogen support using PV-electrolyzer generation system. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 2, pp. 55-65. <a href="https://doi.org/10.14447/jnmes.v24i2.a01">https://doi.org/10.14447/jnmes.v24i2.a01</a>
2	Zaidi, S.Z.J., Hassan, S., Raza, M., Harito, C., Yuliarto, B., Walsh, F.C.	Conceptualized Simulation for Templating Carbon Based Nano Structures for Li-ion Batteries: A DFT Investigation	lithium-ion batteries, carbon nanotubes, graphene, chitosan	24, 2, 66-72	<a href="https://doi.org/10.14447/jnmes.v24i2.a02">https://doi.org/10.14447/jnmes.v24i2.a02</a>	Zaidi, S.Z.J., Hassan, S., Raza, M., Harito, C., Yuliarto, B., Walsh, F.C. (2021). Conceptualized simulation for templating carbon based nano structures for Li-ion batteries: A DFT investigation. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 2, pp. 66-72. <a href="https://doi.org/10.14447/jnmes.v24i2.a02">https://doi.org/10.14447/jnmes.v24i2.a02</a>
3	Sun, J.Z., Dong, Y., Wang, X.F., Kong, C.Y., Hong, J.M., Li, C.H.	Molybdenum Trioxide Microrods synthesized with Corn Straw as Biological Templates and its Electrochemical Performance in Aqueous Battery	Biological Template, Corn Straw, Rechargeable aqueous battery, Aluminium-ion battery, MoO <sub>3</sub>	24, 2, 73-77	<a href="https://doi.org/10.14447/jnmes.v24i2.a03">https://doi.org/10.14447/jnmes.v24i2.a03</a>	Sun, J.Z., Dong, Y., Wang, X.F., Kong, C.Y., Hong, J.M., Li, C.H. (2021). Molybdenum trioxide microrods synthesized with corn straw as biological templates and its electrochemical performance in aqueous battery. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 2, pp. 73-77. <a href="https://doi.org/10.14447/jnmes.v24i2.a03">https://doi.org/10.14447/jnmes.v24i2.a03</a>
4	Kandasamy, S.K., Subramanian, B., Krishnamoorthy, H., Arumugam, C., Suganthi, V., Yuvasri, M., Shreegosh, D.	Chemically Treated Activated Carbon for Supercapacitor Electrode Derived from Starch of Solanum Tuberosum	Electrode, Energy density, Solanum tuberosum, Supercapacitor, Power density	24, 2, 78-83	<a href="https://doi.org/10.14447/jnmes.v24i2.a04">https://doi.org/10.14447/jnmes.v24i2.a04</a>	Kandasamy, S.K., Subramanian, B., Krishnamoorthy, H., Arumugam, C., Suganthi, V., Yuvasri, M., Shreegosh, D. (2021). Chemically treated activated carbon for supercapacitor electrode derived from starch of solanum tuberosum. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 2, pp. 78-83. <a href="https://doi.org/10.14447/jnmes.v24i2.a04">https://doi.org/10.14447/jnmes.v24i2.a04</a>
5	Subramanian, G.G., Padmanabhan, T.S., Chidambaram, I.A., Paramasivam, B.	Pseudo-Derivative Feedback Controller for Automatic Generation Control in a Deregulated Power System with Hydrogen Energy Storage	automatic generation control, power pollution algorithm, hydrogen energy storage, PDF controller, power system restoration indices	24, 2, 84-94	<a href="https://doi.org/10.14447/jnmes.v24i2.a05">https://doi.org/10.14447/jnmes.v24i2.a05</a>	Subramanian, G.G., Padmanabhan, T.S., Chidambaram, I.A., Paramasivam, B. (2021). Pseudo-Derivative Feedback controller for automatic generation control in a deregulated power system with hydrogen energy storage. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 2, pp. 84-94. <a href="https://doi.org/10.14447/jnmes.v24i2.a05">https://doi.org/10.14447/jnmes.v24i2.a05</a>
6	Karthikeyan, M., Vijayachitra, S.	A Novel Experimental Study and Analysis of Electrocoagulation Process for Textile Wastewater Treatment using Various Sensors with Integration of IoT Monitoring System	electrocoagulation, electrode, colour, turbidity, pH, sensors and IoT	24, 2, 95-102	<a href="https://doi.org/10.14447/jnmes.v24i2.a06">https://doi.org/10.14447/jnmes.v24i2.a06</a>	Karthikeyan, M., Vijayachitra, S. (2021). A novel experimental study and analysis of electrocoagulation process for textile wastewater treatment using various sensors with integration of IoT monitoring system. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 2, pp. 95-102. <a href="https://doi.org/10.14447/jnmes.v24i2.a06">https://doi.org/10.14447/jnmes.v24i2.a06</a>
7	Qazi, U.Y.	Influence of Surfactant Additives on Photochemical Synthesized Silver Nanoparticles using UV Pulsed Laser Irradiations in Aqueous Silver Nitrate Solution	Critical micelles concentration (CMC), Silver nanospheres (AgNSs), Laser irradiation, Nanotechnology, Critical growth concentration (CGC)	24, 2, 103-110	<a href="https://doi.org/10.14447/jnmes.v24i2.a07">https://doi.org/10.14447/jnmes.v24i2.a07</a>	Qazi, U.Y. (2021). Influence of surfactant additives on photochemical synthesized silver nanoparticles using UV pulsed laser irradiations in aqueous silver nitrate solution. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 2, pp. 103-110. <a href="https://doi.org/10.14447/jnmes.v24i2.a07">https://doi.org/10.14447/jnmes.v24i2.a07</a>
8	Fu, L., Fu, X.W., Yang, P.	Maximum Power Point Tracking in Solar Cells with Power Quality Preservation Based on Impedance Matching Concept for Satellite Electrical Energy Supply	solar cell, maximum power point tracking, impedance matching concept, solar radiation, DC/DC converter	24, 2, 111-119	<a href="https://doi.org/10.14447/jnmes.v24i2.a08">https://doi.org/10.14447/jnmes.v24i2.a08</a>	Fu, L., Fu, X.W., Yang, P. (2021). Maximum power point tracking in solar cells with power quality preservation based on impedance matching concept for satellite electrical energy supply. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 2, pp. 111-119. <a href="https://doi.org/10.14447/jnmes.v24i2.a08">https://doi.org/10.14447/jnmes.v24i2.a08</a>
9	Vijayakumar, M., Kumaresan, K., Gopal, R., Vetrivel, S.D., Vijayan, V.	Effect of Silicon Carbide on the Mechanical and Thermal Properties of Snake Grass/Sisal Fiber Reinforced Hybrid Epoxy Composites	hybrid composite, snake grass fiber, sisal fiber, SiC, mechanical properties, water absorption, thermal properties	24, 2, 120-128	<a href="https://doi.org/10.14447/jnmes.v24i2.a09">https://doi.org/10.14447/jnmes.v24i2.a09</a>	Vijayakumar, M., Kumaresan, K., Gopal, R., Vetrivel, S.D., Vijayan, V. (2021). Effect of silicon carbide on the mechanical and thermal properties of snake grass/sisal fiber reinforced hybrid epoxy composites. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 2, pp. 120-128. <a href="https://doi.org/10.14447/jnmes.v24i2.a09">https://doi.org/10.14447/jnmes.v24i2.a09</a>
10	Chaudhury, P., Samantaray, S.	Thermal Modelling and Multi Decision Making Optimization of EDM of Non Conductive SiC-CNT Ceramic Composite Used for Li-ion Battery and Sensor	Thermal model, Ceramic matrix composite, Carbon nano tube, Electrical discharge machining, Heat flux, fraction of heat, material removal rate, desirability analysis	24, 2, 129-141	<a href="https://doi.org/10.14447/jnmes.v24i2.a10">https://doi.org/10.14447/jnmes.v24i2.a10</a>	Chaudhury, P., Samantaray, S. (2021). Thermal modelling and multi decision making optimization of EDM of non conductive SiC-CNT ceramic composite used for li-ion battery and sensor. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 2, pp. 129-141. <a href="https://doi.org/10.14447/jnmes.v24i2.a10">https://doi.org/10.14447/jnmes.v24i2.a10</a>
11	Zaidi, S.Z.J., Raza, M., Hassan, S., Harito, C., Walsh, F.C.	A DFT Study of Heteroatom Doped-Pyrazine as an Anode in Sodium ion Batteries	DFT, bio-batteries, sodium ion batteries	24, 1, 1-8	<a href="https://doi.org/10.14447/jnmes.v24i1.a01">https://doi.org/10.14447/jnmes.v24i1.a01</a>	Zaidi, S.Z.J., Raza, M., Hassan, S., Harito, C., Walsh, F.C. (2021). A DFT study of heteroatom doped-pyrazine as an anode in sodium ion batteries. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 1, pp. 1-8. <a href="https://doi.org/10.14447/jnmes.v24i1.a01">https://doi.org/10.14447/jnmes.v24i1.a01</a>
12	Ibn Shamsah, S.M.	Electrochemical Performance of Cupric Oxide Loaded Carbon Nanotubes as Electrode Material for CO2 Reduction	carbon nanotubes, cupric oxide, CO2 reduction, electrochemical cell, linear sweep voltammetry	24, 1, 9-13	<a href="https://doi.org/10.14447/jnmes.v24i1.a02">https://doi.org/10.14447/jnmes.v24i1.a02</a>	Ibn Shamsah, S.M. (2021). Electrochemical performance of cupric oxide loaded carbon nanotubes as electrode material for CO2 reduction. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 1, pp. 9-13. <a href="https://doi.org/10.14447/jnmes.v24i1.a02">https://doi.org/10.14447/jnmes.v24i1.a02</a>
13	Fu, X.W., Fu, L., Marrani, H.I.	Stabilization of A Single Chamber Single Population Microbial Fuel Cell by Using of a Novel Nonlinear Adaptive Sliding Mode Control	microbial fuel cell, renewable energy, adaptive method, sliding mode control, stabilization	24, 1, 14-20	<a href="https://doi.org/10.14447/jnmes.v24i1.a03">https://doi.org/10.14447/jnmes.v24i1.a03</a>	Fu, X.W., Fu, L., Marrani, H.I. (2021). Stabilization of a single chamber single population microbial fuel cell by using of a novel nonlinear adaptive sliding mode control. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 1, pp. 14-20. <a href="https://doi.org/10.14447/jnmes.v24i1.a03">https://doi.org/10.14447/jnmes.v24i1.a03</a>
14	Kandasamy, S.K., Arumugam, C., Sajiha, A.S., Rao, S.P., Selvaraj, S., Vetrivel, R., Selvarajan, R., Alosaimi, A.M., Khan, A., Hussein, M.A., Asiri, A.M.	Paradisica/Solanum Tuberosum Biowaste Composites with Graphene Oxide for Flexible Supercapacitor	Biowaste composite, Citrus Sinensis Flavodes, Graphene Oxide, Flexible Supercapacitor, Musa Paradisica, Solanum Tuberosum	24, 1, 21-28	<a href="https://doi.org/10.14447/jnmes.v24i1.a04">https://doi.org/10.14447/jnmes.v24i1.a04</a>	Kandasamy, S.K., Arumugam, C., Sajiha, A.S., Rao, S.P., Selvaraj, S., Vetrivel, R., Selvarajan, R., Alosaimi, A.M., Khan, A., Hussein, M.A., Asiri, A.M. (2021). Paradisica/Solanum tuberosum biowaste composite with graphene oxide for flexible supercapacitor. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 1, pp. 21-28. <a href="https://doi.org/10.14447/jnmes.v24i1.a04">https://doi.org/10.14447/jnmes.v24i1.a04</a>
15	Maimier, F.B., da Silva, T.T., de Araujo, F.P.D.	Performance of Propargyl Alcohol as Corrosion Inhibitor for Electroless Nickel-Phosphorus (NiP) Coating in Hydrochloric Acid Solution	Electroless NiP coating, propargyl alcohol, corrosion inhibitor, hydrochloric acid, acid stimulation	24, 1, 29-33	<a href="https://doi.org/10.14447/jnmes.v24i1.a05">https://doi.org/10.14447/jnmes.v24i1.a05</a>	Maimier, F.B., da Silva, T.T., de Araujo, F.P.D. (2021). Performance of propargyl alcohol as corrosion inhibitor for electroless nickel-phosphorus (NiP) coating in hydrochloric acid solution. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 1, pp. 29-33. <a href="https://doi.org/10.14447/jnmes.v24i1.a05">https://doi.org/10.14447/jnmes.v24i1.a05</a>
16	Sathish, T., Sabarirajan, N.	Synthesis and Optimization of AA 7175 – Zirconium Carbide (ZrC) Composites Machining Parameters	AA7175, zirconium carbide, milling, reinforcement, minitab, CNC, stir casting	24, 1, 34-37	<a href="https://doi.org/10.14447/jnmes.v24i1.a06">https://doi.org/10.14447/jnmes.v24i1.a06</a>	Sathish, T., Sabarirajan, N. (2021). Synthesis and optimization of AA 7175 – zirconium carbide (ZrC) composites machining parameters. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 1, pp. 34-37. <a href="https://doi.org/10.14447/jnmes.v24i1.a06">https://doi.org/10.14447/jnmes.v24i1.a06</a>
17	Qazi, U.Y.	Silver Nanoparticles Formation by Nanosecond Pulsed Laser Irradiation in an Aqueous Solution of Silver Nitrate; Effect of Sodium bis (2-ethyl hexyl) Sulfosuccinate	Critical micelles concentration (CMC), Silver nanospheres (AgNSs), Laser irradiation, Nanotechnology, sodium-bis (2-ethylhexyl) sulfosuccinate (AOT)	24, 1, 38-42	<a href="https://doi.org/10.14447/jnmes.v24i1.a07">https://doi.org/10.14447/jnmes.v24i1.a07</a>	Qazi, U.Y. (2021). Silver nanoparticles formation by nanosecond pulsed laser irradiation in an aqueous solution of silver nitrate; effect of Sodium bis (2-ethyl hexyl) sulfosuccinate. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 1, pp. 38-42. <a href="https://doi.org/10.14447/jnmes.v24i1.a07">https://doi.org/10.14447/jnmes.v24i1.a07</a>
18	Harrag, A.	Novel Neural network single sensor MPPT for Proton Exchange Membrane Fuel Cell	PEM Fuel Cell, MPPT, Single Sensor, Neural Network, NN	24, 1, 43-48	<a href="https://doi.org/10.14447/jnmes.v24i1.a08">https://doi.org/10.14447/jnmes.v24i1.a08</a>	Harrag, A. (2021). Novel neural network single sensor MPPT for proton exchange membrane fuel cell. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 1, pp. 43-48. <a href="https://doi.org/10.14447/jnmes.v24i1.a08">https://doi.org/10.14447/jnmes.v24i1.a08</a>
19	Gunasekaran, K., Pradeep Kumar, G., Thanigaivelan, R., Arunachalam, R., Shanmugam, V.	Optimization of Turning Parameters of Cryogenic Soaked AZ91 Magnesium Alloy using TOPSIS coupled Taguchi Technique	Magnesium alloys, Cryogenic soaking Duration, TOPSIS, Cutting temperature, Surface roughness, Cutting force	24, 1, 49-54	<a href="https://doi.org/10.14447/jnmes.v24i1.a09">https://doi.org/10.14447/jnmes.v24i1.a09</a>	Gunasekaran, K., Pradeep Kumar, G., Thanigaivelan, R., Arunachalam, R., Shanmugam, V. (2021). Optimization of turning parameters of cryogenic soaked AZ91 magnesium alloy using TOPSIS coupled Taguchi technique. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 24, No. 1, pp. 49-54. <a href="https://doi.org/10.14447/jnmes.v24i1.a09">https://doi.org/10.14447/jnmes.v24i1.a09</a>

20	Savado, O.	Will the future of electric vehicles be powered by accumulators or fuel cells		23, 4, 221-224	<a href="https://doi.org/10.14447/jnmes.v23i4.a01">https://doi.org/10.14447/jnmes.v23i4.a01</a>	Savado, O. (2020). Will the future of electric vehicles be powered by accumulators or fuel cells? <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 4, pp. 221-224. <a href="https://doi.org/10.14447/jnmes.v23i4.a01">https://doi.org/10.14447/jnmes.v23i4.a01</a>
21	Kahia, H., Aicha, S., Herbadji, D., Herbadji, A., Bedda, S.	Neural network based diagnostic of PEM fuel cell	PEMFC, neural network, EIS	23, 4, 225-234	<a href="https://doi.org/10.14447/jnmes.v23i4.a02">https://doi.org/10.14447/jnmes.v23i4.a02</a>	Kahia, H., Aicha, S., Herbadji, D., Herbadji, A., Bedda, S. (2020). Neural network based diagnostic of PEM fuel cell. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 4, pp. 225-234. <a href="https://doi.org/10.14447/jnmes.v23i4.a02">https://doi.org/10.14447/jnmes.v23i4.a02</a>
22	Sathish, T.	Performance improvement of base fluid heat transfer medium using nano fluid particles	heat transfer coefficient, CFX simulation, ansys simulation, nano fluid and base fluid	23, 4, 235-243	<a href="https://doi.org/10.14447/jnmes.v23i4.a03">https://doi.org/10.14447/jnmes.v23i4.a03</a>	Sathish, T. (2020). Performance improvement of base fluid heat transfer medium using nano fluid particles. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 4, pp. 235-243. <a href="https://doi.org/10.14447/jnmes.v23i4.a03">https://doi.org/10.14447/jnmes.v23i4.a03</a>
23	Wang, G.W., Chen, H.Z., Wu, Y.H.	Influence of heat disturbance on the performance of YSZ based CO2 sensor with compound of Li2CO3-BaCO3-Nd2O3 as auxiliary sensing electrode	heat disturbance, YSZ, CO2 sensor, water vapor	23, 4, 244-251	<a href="https://doi.org/10.14447/jnmes.v23i4.a04">https://doi.org/10.14447/jnmes.v23i4.a04</a>	Wang, G.W., Chen, H.Z., Wu, Y.H. (2020). Influence of heat disturbance on the performance of YSZ based CO2 sensor with compound of Li2CO3-BaCO3-Nd2O3 as auxiliary sensing electrode. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 4, pp. 244-251. <a href="https://doi.org/10.14447/jnmes.v23i4.a04">https://doi.org/10.14447/jnmes.v23i4.a04</a>
24	Sankar, L.P., Kamalakannan, R., Aruna, G., Meera, M.R., Vijayan, V., Sivananthan, S.	Mechanical behavior and microstructure evolution of Al-5%Cu/TiC metal matrix composite	metal matrix composite, build-up edge, machinability, hardness, SEM analysis	23, 4, 252-255	<a href="https://doi.org/10.14447/jnmes.v23i4.a05">https://doi.org/10.14447/jnmes.v23i4.a05</a>	Sankar, L.P., Kamalakannan, R., Aruna, G., Meera, M.R., Vijayan, V., Sivananthan, S. (2020). Mechanical behavior and microstructure evolution of Al-5%Cu/TiC metal matrix composite. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 4, pp. 252-255. <a href="https://doi.org/10.14447/jnmes.v23i4.a05">https://doi.org/10.14447/jnmes.v23i4.a05</a>
25	He, Y., Wang, K., Ji, Y.H., Wu, G.Y., Zhao, M.J.	Evaluation of cumulative damage of sandstone under cyclic wetting and drying through acoustic wave parameters and resistivity testing	sandstone, cyclic wetting and drying, P-wave velocity, acoustic wave parameters and resistivity (AWPR) testing, cumulative damage	23, 4, 256-261	<a href="https://doi.org/10.14447/jnmes.v23i4.a06">https://doi.org/10.14447/jnmes.v23i4.a06</a>	He, Y., Wang, K., Ji, Y.H., Wu, G.Y., Zhao, M.J. (2020). Evaluation of cumulative damage of sandstone under cyclic wetting and drying through acoustic wave parameters and resistivity testing. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 4, pp. 256-261. <a href="https://doi.org/10.14447/jnmes.v23i4.a06">https://doi.org/10.14447/jnmes.v23i4.a06</a>
26	Lian, Y.T., Xie, Q.Z., Zheng, M.G.	Investigation on the optimal angle of a flow-field design based on the leaf-vein structure for PEMFC	PEMFC, bio-inspired flow field, angle, fuel cell performance, mass transfer	23, 4, 262-268	<a href="https://doi.org/10.14447/jnmes.v23i4.a07">https://doi.org/10.14447/jnmes.v23i4.a07</a>	Lian, Y.T., Xie, Q.Z., Zheng, M.G. (2020). Investigation on the optimal angle of a flow-field design based on the leaf-vein structure for PEMFC. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 4, pp. 262-268. <a href="https://doi.org/10.14447/jnmes.v23i4.a07">https://doi.org/10.14447/jnmes.v23i4.a07</a>
27	Yokeswaran, R., Vijayan, V., Karthikeyan, T., Loganathan, M., Antony, A.G.	Microstructure analysis of IS2062 plates clad with SS2594 by TIG welding process	cladding, IS2062 steel, super duplex stainless steel, SS2594, gas metal arc welding, microstructural characteristics, mechanical behaviour	23, 4, 269-273	<a href="https://doi.org/10.14447/jnmes.v23i4.a08">https://doi.org/10.14447/jnmes.v23i4.a08</a>	Yokeswaran, R., Vijayan, V., Karthikeyan, T., Loganathan, M., Antony, A.G. (2020). Microstructure analysis of IS2062 plates clad with SS2594 by TIG welding process. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 4, pp. 269-273. <a href="https://doi.org/10.14447/jnmes.v23i4.a08">https://doi.org/10.14447/jnmes.v23i4.a08</a>
28	Si, X.R., Ding, D., Zhou, J.H., Cao, Z.W.	Inhibitory effect of vanillin on biofilm formation by multi-species wastewater culture	vanillin, biofilms, multi-species, inhibition rate	23, 4, 274-279	<a href="https://doi.org/10.14447/jnmes.v23i4.a09">https://doi.org/10.14447/jnmes.v23i4.a09</a>	Si, X.R., Ding, D., Zhou, J.H., Cao, Z.W. (2020). Inhibitory effect of vanillin on biofilm formation by multi-species wastewater culture. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 4, pp. 274-279. <a href="https://doi.org/10.14447/jnmes.v23i4.a09">https://doi.org/10.14447/jnmes.v23i4.a09</a>
29	Zou, J., Wu, G., Jiang, W., Bao, C.W., Zou, J.Y.	Effects of TiO2 nanotube size on the performance of Li-ion Battery with TiO2 nanotube as anode material	TiO2 nanotube, size, Li-ion battery, anode material	23, 4, 280-284	<a href="https://doi.org/10.14447/jnmes.v23i4.a10">https://doi.org/10.14447/jnmes.v23i4.a10</a>	Zou, J., Wu, G., Jiang, W., Bao, C.W., Zou, J.Y. (2020). Effects of TiO2 nanotube size on the performance of Li-ion Battery with TiO2 nanotube as anode material. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 4, pp. 280-284. <a href="https://doi.org/10.14447/jnmes.v23i4.a10">https://doi.org/10.14447/jnmes.v23i4.a10</a>
30	Amna, R., Ali, K., Malik, M.I., Shamsah, S.I.	A brief review of electrospinning of polymer nanofibers: History and main applications	electrospinning, taylor cone, electrical jet trajectory, ultrafine fibers, electrostatic force, fiber assembly, sub-micron fibers	23, 3, 151-163	<a href="https://doi.org/10.14447/jnmes.v23i3.a01">https://doi.org/10.14447/jnmes.v23i3.a01</a>	Amna, R., Ali, K., Malik, M.I., Shamsah, S.I. (2020). A brief review of electrospinning of polymer nanofibers: History and main applications. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 3, pp. 151-163. <a href="https://doi.org/10.14447/jnmes.v23i3.a01">https://doi.org/10.14447/jnmes.v23i3.a01</a>
31	Narayana, V.L., Gopi, A.P.	Enterotoxigenic Escherichia coli detection using the design of a biosensor	food Industry, biological environment, enterotoxigenic, microelectrode array, vapor deposition	23, 3, 164-166	<a href="https://doi.org/10.14447/jnmes.v23i3.a02">https://doi.org/10.14447/jnmes.v23i3.a02</a>	Narayana, V.L., Gopi, A.P. (2020). Enterotoxigenic Escherichia coli detection using the design of a biosensor. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 3, pp. 164-166. <a href="https://doi.org/10.14447/jnmes.v23i3.a02">https://doi.org/10.14447/jnmes.v23i3.a02</a>
32	Zhu, J., Zheng, W.Z., Xie, L.L., Ren, N., Zhang, Y.X., Zhang, Y.X.	Alkali-activated slag cement: Alternative adhesives for CFRP sheets bonded to concrete at elevated temperatures	Alkali-activated slag, CFRP, high temperature, mechanical properties, microstructure	23, 3, 167-176	<a href="https://doi.org/10.14447/jnmes.v23i3.a03">https://doi.org/10.14447/jnmes.v23i3.a03</a>	Zhu, J., Zheng, W.Z., Xie, L.L., Ren, N., Zhang, Y.X., Zhang, Y.X. (2020). Alkali-activated slag cement: Alternative adhesives for CFRP sheets bonded to concrete at elevated temperatures. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 3, pp. 167-176. <a href="https://doi.org/10.14447/jnmes.v23i3.a03">https://doi.org/10.14447/jnmes.v23i3.a03</a>
33	Natarajan, P., Jegan, A., Mohanraj, M.	Wear behavior of Ni-TiO2 nano-composite coating on AISI 1022 CS by pulse electrodeposition	AISI 1022 CS, Ni-TiO2 nano composite coating, wear rate, RSM, SEM, ANOVA	23, 3, 177-181	<a href="https://doi.org/10.14447/jnmes.v23i3.a04">https://doi.org/10.14447/jnmes.v23i3.a04</a>	Natarajan, P., Jegan, A., Mohanraj, M. (2020). Wear behavior of Ni-TiO2 nano-composite coating on AISI 1022 CS by pulse electrodeposition. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 3, pp. 177-181. <a href="https://doi.org/10.14447/jnmes.v23i3.a04">https://doi.org/10.14447/jnmes.v23i3.a04</a>
34	Dhinakarraj, C.K., Senthilkumar, N., Badri, M.A., Anbuhezhiyan, G.	Vibration and damping behavior of Si3N4 reinforced magnesium alloy composite for structural applications	magnesium composite, damping factor, microstructure, density, vibration	23, 3, 182-189	<a href="https://doi.org/10.14447/jnmes.v23i3.a05">https://doi.org/10.14447/jnmes.v23i3.a05</a>	Dhinakarraj, C.K., Senthilkumar, N., Badri, M.A., Anbuhezhiyan, G. (2020). Vibration and damping behavior of Si3N4 reinforced magnesium alloy composite for structural applications. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 3, pp. 182-189. <a href="https://doi.org/10.14447/jnmes.v23i3.a05">https://doi.org/10.14447/jnmes.v23i3.a05</a>
35	Assam, B., Sabir, M., Abdelghani, H.	Modeling and control of power system containing PV system and SMES using sliding mode and field control strategy	Grid-PV-SMES, power integration, sliding Mode	23, 3, 190-197	<a href="https://doi.org/10.14447/jnmes.v23i3.a06">https://doi.org/10.14447/jnmes.v23i3.a06</a>	Assam, B., Sabir, M., Abdelghani, H. (2020). Modeling and control of power system containing PV system and SMES using sliding mode and field control strategy. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 3, pp. 190-197. <a href="https://doi.org/10.14447/jnmes.v23i3.a06">https://doi.org/10.14447/jnmes.v23i3.a06</a>
36	Tian, W., Qian, Y.M., Wang, R.Z., Wang, Y.M.	Tensile performance of a novel glue-laminated cornstalk scrimber	cornstalks, scrimber, glulam, tensile strength, mechanical performance	23, 3, 198-203	<a href="https://doi.org/10.14447/jnmes.v23i3.a07">https://doi.org/10.14447/jnmes.v23i3.a07</a>	Tian, W., Qian, Y.M., Wang, R.Z., Wang, Y.M. (2020). Tensile performance of a novel glue-laminated cornstalk scrimber. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 3, pp. 198-203. <a href="https://doi.org/10.14447/jnmes.v23i3.a07">https://doi.org/10.14447/jnmes.v23i3.a07</a>
37	Chang, H., Jin, L.H.	Preparation and heat transfer performance of steel ball phase change concrete	energy pile, phase change concrete, steel ball, butyl stearate, numerical simulation	23, 3, 204-212	<a href="https://doi.org/10.14447/jnmes.v23i3.a08">https://doi.org/10.14447/jnmes.v23i3.a08</a>	Chang, H., Jin, L.H. (2020). Preparation and heat transfer performance of steel ball phase change concrete. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 3, pp. 204-212. <a href="https://doi.org/10.14447/jnmes.v23i3.a08">https://doi.org/10.14447/jnmes.v23i3.a08</a>
38	Prakash, R., Meenakshipriya, B., Vijayan, S., Kumaravelan, R.	Performance evaluation of a solar PV/T water heater integrated with inorganic salt based energy storage medium	PV/T hybrid module, phase change materials, salt mixture, differential scanning calorimetry	23, 3, 213-220	<a href="https://doi.org/10.14447/jnmes.v23i3.a09">https://doi.org/10.14447/jnmes.v23i3.a09</a>	Prakash, R., Meenakshipriya, B., Vijayan, S., Kumaravelan, R. (2020). Performance evaluation of a solar PV/T water heater integrated with inorganic salt based energy storage medium. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 3, pp. 213-220. <a href="https://doi.org/10.14447/jnmes.v23i3.a09">https://doi.org/10.14447/jnmes.v23i3.a09</a>
39	Ghorbanzadeh, M., Allahyari, E., Riahifar, R., Hadavi, S.M.M.	Influence of calcination temperature on the electrochemical performance of Li1.2[Ni0.13Co0.13Mn0.54]0.985Zr0.015O2 as Li-rich cathode material for Li-ion batteries	combustion synthesis, Li-rich cathode material, calcination temperature, Li-batteries	23, 2, 61-65	<a href="https://doi.org/10.14447/jnmes.v23i2.a01">https://doi.org/10.14447/jnmes.v23i2.a01</a>	Ghorbanzadeh, M., Allahyari, E., Riahifar, R., Hadavi, S.M.M. (2020). Influence of calcination temperature on the electrochemical performance of Li1.2[Ni0.13Co0.13Mn0.54]0.985Zr0.015O2 as Li-rich cathode material for Li-ion batteries. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 2, pp. 61-65. <a href="https://doi.org/10.14447/jnmes.v23i2.a01">https://doi.org/10.14447/jnmes.v23i2.a01</a>

40	Yao, X.L., Chen, C.D., Chen, L., Wei, X., Cui, H.F., Xu, H.L., Fan, H.	A novel PCB77 electrochemical sensor based on nano-functionalized electrode and selected aptamer	electrochemical, aptasensor, nano-functionalized, 3,3',4,4'-tetrachlorobiphenyl	23, 2, 66-70	<a href="https://doi.org/10.14447/jnmes.v23i2.a02">https://doi.org/10.14447/jnmes.v23i2.a02</a>	Yao, X.L., Chen, C.D., Chen, L., Wei, X., Cui, H.F., Xu, H.L., Fan, H. (2020). A novel PCB77 electrochemical sensor based on nano-functionalized electrode and selected aptamer. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 2, pp. 66-70. <a href="https://doi.org/10.14447/jnmes.v23i2.a02">https://doi.org/10.14447/jnmes.v23i2.a02</a>
41	Deepa, H.A., Madhu, G.M., Kumara Swamy, B.E., Koteswararao, J.	Estimation of photovoltaic properties of ZnO nanoparticles and CeO <sub>2</sub> -ZnO composite and electrochemical determination of adrenaline employing voltammetry studies	Adrenaline (AD), CeO <sub>2</sub> -ZnO composite, dye sensitized solar cells, photoanode, ZnO nano particles	23, 2, 71-77	<a href="https://doi.org/10.14447/jnmes.v23i2.a03">https://doi.org/10.14447/jnmes.v23i2.a03</a>	Deepa, H.A., Madhu, G.M., Kumara Swamy, B.E., Koteswararao, J. (2020). Estimation of photovoltaic properties of ZnO nanoparticles and CeO <sub>2</sub> -ZnO composite and electrochemical determination of adrenaline employing voltammetry studies. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 2, pp. 71-77. <a href="https://doi.org/10.14447/jnmes.v23i2.a03">https://doi.org/10.14447/jnmes.v23i2.a03</a>
42	Yadav, M.K., Gangwar, C., Singh, N.K.	Low temperature synthesis and characterization of Ni <sub>2</sub> Fe <sub>3</sub> -xO <sub>4</sub> (0 ≤ x ≤ 1.5) electrodes for oxygen evolution reaction in alkaline medium	Co-precipitation, nickel ferrites, SEM, XRD, electrocatalysis, activation energy	23, 2, 78-86	<a href="https://doi.org/10.14447/jnmes.v23i2.a04">https://doi.org/10.14447/jnmes.v23i2.a04</a>	Yadav, M.K., Gangwar, C., Singh, N.K. (2020). Low temperature synthesis and characterization of Ni <sub>2</sub> Fe <sub>3</sub> -xO <sub>4</sub> (0 ≤ x ≤ 1.5) electrodes for oxygen evolution reaction in alkaline medium. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 2, pp. 78-86. <a href="https://doi.org/10.14447/jnmes.v23i2.a04">https://doi.org/10.14447/jnmes.v23i2.a04</a>
43	Singh, K.N., Yadav, M.K., Parihar, R., Gangwar, C.	Egg-white mediated sol-gel synthesis of cobalt ferrites and their electrocatalytic activity towards alkaline water electrolysis	spinel ferrites, egg white, sol-gel, electrocatalysis, oxygen evolution, thermodynamic parameters	23, 2, 87-93	<a href="https://doi.org/10.14447/jnmes.v23i2.a05">https://doi.org/10.14447/jnmes.v23i2.a05</a>	Singh, K.N., Yadav, M.K., Parihar, R., Gangwar, C. (2020). Egg-white mediated sol-gel synthesis of cobalt ferrites and their electrocatalytic activity towards alkaline water electrolysis. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 2, pp. 87-93. <a href="https://doi.org/10.14447/jnmes.v23i2.a05">https://doi.org/10.14447/jnmes.v23i2.a05</a>
44	Babu, B., Sabarinathan, C., Dharmalingam, S.	Production of aluminium 6063 metal matrix composite with 12% magnesium oxide and 5% graphite and its machinability studies using micro electrochemical machining	Metal Matrix Composites, Mechanical properties, micro ECM, ANOVA, Material removal rate, overcut	23, 2, 94-100	<a href="https://doi.org/10.14447/jnmes.v23i2.a06">https://doi.org/10.14447/jnmes.v23i2.a06</a>	Babu, B., Sabarinathan, C., Dharmalingam, S. (2020). Production of aluminium 6063 metal matrix composite with 12% magnesium oxide and 5% graphite and its machinability studies using micro electrochemical machining. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 2, pp. 94-100. <a href="https://doi.org/10.14447/jnmes.v23i2.a06">https://doi.org/10.14447/jnmes.v23i2.a06</a>
45	Senthil, M.S., Noorul, H.A., Sathiya, P.	Eco-friendly frictional joining of AA6063 and AISI304L dissimilar metals and characterisation of bimetal joints	friction, dissimilar joint, weld interface, aluminium 6063, austenitic stainless steel 304L, solid-state joining	23, 2, 101-111	<a href="https://doi.org/10.14447/jnmes.v23i2.a07">https://doi.org/10.14447/jnmes.v23i2.a07</a>	Senthil, M.S., Noorul, H.A., Sathiya, P. (2020). Eco-friendly frictional joining of AA6063 and AISI304L dissimilar metals and characterisation of bimetal joints. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 2, pp. 101-111. <a href="https://doi.org/10.14447/jnmes.v23i2.a07">https://doi.org/10.14447/jnmes.v23i2.a07</a>
46	Gunasevi, S., Satheshkumar, P., Jeganathan, M.	Surface modification of steel by nickel coating in electrochemical process	electroless deposition, nickel coating, corrosion resistance, potential time studies, impressed voltage test	23, 2, 112-122	<a href="https://doi.org/10.14447/jnmes.v23i2.a08">https://doi.org/10.14447/jnmes.v23i2.a08</a>	Gunasevi, S., Satheshkumar, P., Jeganathan, M. (2020). Surface modification of steel by nickel coating in electrochemical process. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 2, pp. 112-122. <a href="https://doi.org/10.14447/jnmes.v23i2.a08">https://doi.org/10.14447/jnmes.v23i2.a08</a>
47	Rajkumar, T., Raja, K., Lingadurai, K., Vetrivel, S.D., Antony, A.G.	Interfacial microstructure analysis of AA2024 welded joints by friction stir welding	friction stir welding, AA2024 aluminium alloy, Response surface method, mechanical properties, microstructural characteristics	23, 2, 123-132	<a href="https://doi.org/10.14447/jnmes.v23i2.a09">https://doi.org/10.14447/jnmes.v23i2.a09</a>	Rajkumar, T., Raja, K., Lingadurai, K., Vetrivel, S.D., Antony, A.G. (2020). Interfacial microstructure analysis of AA2024 welded joints by friction stir welding. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 2, pp. 123-132. <a href="https://doi.org/10.14447/jnmes.v23i2.a09">https://doi.org/10.14447/jnmes.v23i2.a09</a>
48	Al Owais, A.A., El-Hallag, I.S.	Investigation of the nucleation process of electrodeposited nanostructured cobalt films using Brij 76 lyotropic liquid crystal	nanostructured, mesoporous, electrodeposition, Brij76, cyclic voltammetry, nucleation	23, 2, 133-138	<a href="https://doi.org/10.14447/jnmes.v23i2.a10">https://doi.org/10.14447/jnmes.v23i2.a10</a>	Al Owais, A.A., El-Hallag, I.S. (2020). Investigation of the nucleation process of electrodeposited nanostructured cobalt films using Brij 76 lyotropic liquid crystal. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 2, pp. 133-138. <a href="https://doi.org/10.14447/jnmes.v23i2.a10">https://doi.org/10.14447/jnmes.v23i2.a10</a>
49	Katuri, R., Gorantla, S.	Optimal performance of lithium-ion battery and ultra-capacitor with a novel control technique used in E-Vehicles	CBC, PI controller, PID controller, fuzzy logic controller, ANN controller DC-DC converters	23, 2, 139-150	<a href="https://doi.org/10.14447/jnmes.v23i2.a11">https://doi.org/10.14447/jnmes.v23i2.a11</a>	Katuri, R., Gorantla, S. (2020). Optimal performance of lithium-ion battery and ultra-capacitor with a novel control technique used in E-Vehicles. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 2, pp. 139-150. <a href="https://doi.org/10.14447/jnmes.v23i2.a11">https://doi.org/10.14447/jnmes.v23i2.a11</a>
50	Ali, K., Raza, H.A., Malik, M.I., Shamsah, S.I., Amna, R., Sarfraz, A.	To study the effect of LiMn <sub>2</sub> O <sub>4</sub> , nanofibers of LiMn <sub>2</sub> O <sub>4</sub> , and graphene/polyaniline/carbon nanotube as electrode materials in the fuel cell	perovskite LiMn <sub>2</sub> O <sub>4</sub> , graphene/polyaniline/carbon nanotube, Fuel cell, Solid oxide fuel cell (SOFC), oxygen reduction reaction (ORR)	23, 1, 1-6	<a href="https://doi.org/10.14447/jnmes.v23i1.a01">https://doi.org/10.14447/jnmes.v23i1.a01</a>	Ali, K., Raza, H.A., Malik, M.I., Shamsah, S.I., Amna, R., Sarfraz, A. (2020). To study the effect of LiMn <sub>2</sub> O <sub>4</sub> , nanofibers of LiMn <sub>2</sub> O <sub>4</sub> , and graphene/polyaniline/carbon nanotube as electrode materials in the fuel cell. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 1, pp. 1-6. <a href="https://doi.org/10.14447/jnmes.v23i1.a01">https://doi.org/10.14447/jnmes.v23i1.a01</a>
51	Liu, S., Liu, L., Du, Q.Z., Ma, Z.Y., Fu, Y.H., Zhao, Y.J., Li, X.W., Zhao, X.H.	Preparation of PbS/NiO composite photocathode and their applications in quantum dot sensitized solar cells	oxides, electrochemical measurements, chemical synthesis, electrochemical properties	23, 1, 7-12	<a href="https://doi.org/10.14447/jnmes.v23i1.a02">https://doi.org/10.14447/jnmes.v23i1.a02</a>	Liu, S., Liu, L., Du, Q.Z., Ma, Z.Y., Fu, Y.H., Zhao, Y.J., Li, X.W., Zhao, X.H. (2020). Preparation of PbS/NiO composite photocathode and their applications in quantum dot sensitized solar cells. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 1, pp. 7-12. <a href="https://doi.org/10.14447/jnmes.v23i1.a02">https://doi.org/10.14447/jnmes.v23i1.a02</a>
52	Zhou, Y., Zhang, F., Wang, S.L.	Structural protection of ancient masonry pagodas based on modified epoxy resin infiltration	oxides, electrochemical measurements, chemical synthesis, electrochemical properties	23, 1, 13-19	<a href="https://doi.org/10.14447/jnmes.v23i1.a03">https://doi.org/10.14447/jnmes.v23i1.a03</a>	Zhou, Y., Zhang, F., Wang, S.L. (2020). Structural protection of ancient masonry pagodas based on modified epoxy resin infiltration. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 1, pp. 13-19. <a href="https://doi.org/10.14447/jnmes.v23i1.a03">https://doi.org/10.14447/jnmes.v23i1.a03</a>
53	Xie, Y.H., Wang, P.Y., Deng, W.Y., Duan, Y.L., Chen, Y., Huang, Y.X.	Corrosion resistance of TiN/Al <sub>2</sub> O <sub>3</sub> multilayer films deposited on Ni/FeB surface by magnetron sputtering	Ni/FeB, TiN/Al <sub>2</sub> O <sub>3</sub> multilayer film, corrosion protection	23, 1, 20-24	<a href="https://doi.org/10.14447/jnmes.v23i1.a04">https://doi.org/10.14447/jnmes.v23i1.a04</a>	Xie, Y.H., Wang, P.Y., Deng, W.Y., Duan, Y.L., Chen, Y., Huang, Y.X. (2020). Corrosion resistance of TiN/Al <sub>2</sub> O <sub>3</sub> multilayer films deposited on Ni/FeB surface by magnetron sputtering. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 1, pp. 20-24. <a href="https://doi.org/10.14447/jnmes.v23i1.a04">https://doi.org/10.14447/jnmes.v23i1.a04</a>
54	Kesavalu, R., Ramamoorthy, S.	Experimental studies and finite element modeling on incrementally formed AZ61A magnesium alloy	incremental forming, CNC, Finite element, ABAQUS	23, 1, 25-30	<a href="https://doi.org/10.14447/jnmes.v23i1.a05">https://doi.org/10.14447/jnmes.v23i1.a05</a>	Kesavalu, R., Ramamoorthy, S. (2020). Experimental studies and finite element modeling on incrementally formed AZ61A magnesium alloy. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 1, pp. 25-30. <a href="https://doi.org/10.14447/jnmes.v23i1.a05">https://doi.org/10.14447/jnmes.v23i1.a05</a>
55	Manikandan, K., Kumar, P.R., Muthukumar, S., Kumar, B.S.	Effect of WEDM process parameters on surface roughness and waviness of Inconel 603 X	WEDM, Inconel 603 XL, surface roughness, waviness, DFA	23, 1, 31-35	<a href="https://doi.org/10.14447/jnmes.v23i1.a06">https://doi.org/10.14447/jnmes.v23i1.a06</a>	Manikandan, K., Kumar, P.R., Muthukumar, S., Kumar, B.S. (2020). Effect of WEDM process parameters on surface roughness and waviness of Inconel 603 XL. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 1, pp. 31-35. <a href="https://doi.org/10.14447/jnmes.v23i1.a06">https://doi.org/10.14447/jnmes.v23i1.a06</a>
56	Loganathan, M., Dinesh, S., Vijayan, V., Karuppusamy, T., Rajkumar, S.	Investigation of mechanical behaviour on composites of Al6063 alloy with silicon, graphite and fly ash	Al6063, silicon, graphite, fly ash, mechanical properties	23, 1, 36-39	<a href="https://doi.org/10.14447/jnmes.v23i1.a07">https://doi.org/10.14447/jnmes.v23i1.a07</a>	Loganathan, M., Dinesh, S., Vijayan, V., Karuppusamy, T., Rajkumar, S. (2020). Investigation of mechanical behaviour on composites of Al6063 alloy with silicon, graphite and fly ash. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 1, pp. 36-39. <a href="https://doi.org/10.14447/jnmes.v23i1.a07">https://doi.org/10.14447/jnmes.v23i1.a07</a>
57	Loganathan, M., Dinesh, S., Vijayan, V., Ranjithkumar, M., Rajkumar, S.	Experimental investigation of tensile strength of fiber reinforced polyester by using chicken feather fiber	chicken feather fiber, pure jute, fiber composite, tensile strength, yield strength	23, 1, 40-44	<a href="https://doi.org/10.14447/jnmes.v23i1.a08">https://doi.org/10.14447/jnmes.v23i1.a08</a>	Loganathan, M., Dinesh, S., Vijayan, V., Ranjithkumar, M., Rajkumar, S. (2020). Experimental investigation of tensile strength of fiber reinforced polyester by using chicken feather fiber. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 1, pp. 40-44. <a href="https://doi.org/10.14447/jnmes.v23i1.a08">https://doi.org/10.14447/jnmes.v23i1.a08</a>
58	Thiyagarajan, K., Jayaraman, M., Vijayan, V., Ramkumar, R.	Cluster analysis of lost foam casted Al-Zn-Mg-Cu alloy with K-Mean algorithm	AA7075, foam casting, ANSYS, SEM, tensile strength.	23, 1, 45-51	<a href="https://doi.org/10.14447/jnmes.v23i1.a09">https://doi.org/10.14447/jnmes.v23i1.a09</a>	Thiyagarajan, K., Jayaraman, M., Vijayan, V., Ramkumar, R. (2020). Cluster analysis of lost foam casted Al-Zn-Mg-Cu alloy with K-Mean algorithm. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 1, pp. 45-51. <a href="https://doi.org/10.14447/jnmes.v23i1.a09">https://doi.org/10.14447/jnmes.v23i1.a09</a>
59	Wang, F., Zheng, Q.Q., Zhang, G.Q., Wang, C.L., Cheng, F., Lin, G.	Preparation and hydration mechanism of mine cemented paste backfill material for secondary smelting water-granulated nickel slag	secondary smelting water-granulated nickel slag, cemented paste backfill material, cementing agents, composite activator, ettringite	23, 1, 52-59	<a href="https://doi.org/10.14447/jnmes.v23i1.a10">https://doi.org/10.14447/jnmes.v23i1.a10</a>	Wang, F., Zheng, Q.Q., Zhang, G.Q., Wang, C.L., Cheng, F., Lin, G. (2020). Preparation and hydration mechanism of mine cemented paste backfill material for secondary smelting water-granulated nickel slag. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 23, No. 1, pp. 52-59. <a href="https://doi.org/10.14447/jnmes.v23i1.a10">https://doi.org/10.14447/jnmes.v23i1.a10</a>

60	Xie, L., Kirk, D.W.	An improved hydroxide conversion process of anionic exchange membranes for Alka-line fuel cells		22, 4, 173-178	<a href="https://doi.org/10.14447/jnmes.v22i4.a01">https://doi.org/10.14447/jnmes.v22i4.a01</a>	Xie, L., Kirk, D.W. (2019). An improved hydroxide conversion process of anionic exchange membranes for Alka-line fuel cells. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 4, pp. 173-178. <a href="https://doi.org/10.14447/jnmes.v22i4.a01">https://doi.org/10.14447/jnmes.v22i4.a01</a>
61	Almutairi, G., Alenazy, F., Alyousef, Y.	Impact of changing mode on the execution of 100 W solid oxide fuel cells (SOFCs)	solid oxide fuel cell, electrolysis, co-electrolysis, hydrogen produced, carbon deposition	22, 4, 179-184	<a href="https://doi.org/10.14447/jnmes.v22i4.a02">https://doi.org/10.14447/jnmes.v22i4.a02</a>	Almutairi, G., Alenazy, F., Alyousef, Y. (2019). Impact of changing mode on the execution of 100 W solid oxide fuel cells (SOFCs). <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 4, pp. 179-184. <a href="https://doi.org/10.14447/jnmes.v22i4.a02">https://doi.org/10.14447/jnmes.v22i4.a02</a>
62	Wang, Y.K., Han, Y.Q., Li, T.X., Zhang, Z.L., Chen, Z.X., Cao, A.P., Wang, Y.M.	Anthraquinone grafted graphene oxide/polypyrrole composites with enhanced elec-trochemical performance	graphene oxide, polypyrrole, redox active, composites, supercapacitor	22, 4, 185-190	<a href="https://doi.org/10.14447/jnmes.v22i4.a03">https://doi.org/10.14447/jnmes.v22i4.a03</a>	Wang, Y.K., Han, Y.Q., Li, T.X., Zhang, Z.L., Chen, Z.X., Cao, A.P., Wang, Y.M. (2019). Anthraquinone grafted graphene oxide/polypyrrole composites with enhanced elec-trochemical performance. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 4, pp. 185-190. <a href="https://doi.org/10.14447/jnmes.v22i4.a03">https://doi.org/10.14447/jnmes.v22i4.a03</a>
63	Lee, S.J., Kim, S.J., Hong, T.W.	Evaluations of discharge capacity and cycle stability on graphene-added Li <sub>1.9</sub> Ni <sub>0.35</sub> Mn <sub>0.65</sub> O <sub>2</sub> cathode by carbonate co-precipitation	Mn-rich cathode, Carbonate co-precipitation, Graphene	22, 4, 191-194	<a href="https://doi.org/10.14447/jnmes.v22i4.a04">https://doi.org/10.14447/jnmes.v22i4.a04</a>	Lee, S.J., Kim, S.J., Hong, T.W. (2019). Evaluations of discharge capacity and cycle stability on graphene-added Li <sub>1.9</sub> Ni <sub>0.35</sub> Mn <sub>0.65</sub> O <sub>2</sub> cathode by carbonate co-precipitation. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 4, pp. 191-194. <a href="https://doi.org/10.14447/jnmes.v22i4.a04">https://doi.org/10.14447/jnmes.v22i4.a04</a>
64	Najjar, R., Abdel-Gaber, A.M., Awad, R.	Corrosion behavior of Mn <sub>2</sub> O <sub>3</sub> nanoparticles doped samarium superconductor in 0.5 M HCl	corrosion, superconductor, polarization, impedance	22, 4, 195-199	<a href="https://doi.org/10.14447/jnmes.v22i4.a05">https://doi.org/10.14447/jnmes.v22i4.a05</a>	Najjar, R., Abdel-Gaber, A.M., Awad, R. (2019). Corrosion behavior of Mn <sub>2</sub> O <sub>3</sub> nanoparticles doped samarium superconductor in 0.5 M HCl. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 4, pp. 195-199. <a href="https://doi.org/10.14447/jnmes.v22i4.a05">https://doi.org/10.14447/jnmes.v22i4.a05</a>
65	Myles, A.S., Savadogo, O., Oishi, K.	Development of a new building integrated PV-thermal solar module		22, 4, 200-216	<a href="https://doi.org/10.14447/jnmes.v22i4.a06">https://doi.org/10.14447/jnmes.v22i4.a06</a>	Myles, A.S., Savadogo, O., Oishi, K. (2019). Development of a new building integrated PV-thermal solar module. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 4, pp. 200-216. <a href="https://doi.org/10.14447/jnmes.v22i4.a06">https://doi.org/10.14447/jnmes.v22i4.a06</a>
66	Wang, C.L., Zhao, G.F., Zheng, Y.C., Zhang, K.F., Ye, P.Y., Cui, X.W.	Study on the preparation of high performance concrete using steel slag and iron ore tail-ings	steel slag, iron ore tailings, high performance concrete, ettringite, pore size distribution	22, 4, 217-223	<a href="https://doi.org/10.14447/jnmes.v22i4.a07">https://doi.org/10.14447/jnmes.v22i4.a07</a>	Wang, C.L., Zhao, G.F., Zheng, Y.C., Zhang, K.F., Ye, P.Y., Cui, X.W. (2019). Study on the preparation of high performance concrete using steel slag and iron ore tail-ings. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 4, pp. 217-223. <a href="https://doi.org/10.14447/jnmes.v22i4.a07">https://doi.org/10.14447/jnmes.v22i4.a07</a>
67	Liang, X.Y., Wang, C.L., Zhan, J.Y., Cui, X.W., Ren, Z.Z.	Study on preparation of eco-friendly autoclaved aerated concrete from low silicon and high iron ore tailings	iron ore tailings, autoclaved aerated concrete, fineness, content, tobermorite	22, 4, 224-230	<a href="https://doi.org/10.14447/jnmes.v22i4.a08">https://doi.org/10.14447/jnmes.v22i4.a08</a>	Liang, X.Y., Wang, C.L., Zhan, J.Y., Cui, X.W., Ren, Z.Z. (2019). Study on preparation of eco-friendly autoclaved aerated concrete from low silicon and high iron ore tailings. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 4, pp. 224-230. <a href="https://doi.org/10.14447/jnmes.v22i4.a08">https://doi.org/10.14447/jnmes.v22i4.a08</a>
68	Li, J., Wang, Z.J., Zhang, K.F., Wang, C.L., Cui, X.W.	Properties and hydration mechanism of autoclaved aerated concrete containing coal gangue and fly ash	coal gangue, fly ash, autoclaved aerated concrete, tobermorite, structure of pore wall	22, 4, 231-238	<a href="https://doi.org/10.14447/jnmes.v22i4.a09">https://doi.org/10.14447/jnmes.v22i4.a09</a>	Li, J., Wang, Z.J., Zhang, K.F., Wang, C.L., Cui, X.W. (2019). Properties and hydration mechanism of autoclaved aerated concrete containing coal gangue and fly ash. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 4, pp. 231-238. <a href="https://doi.org/10.14447/jnmes.v22i4.a09">https://doi.org/10.14447/jnmes.v22i4.a09</a>
69	Qin, X.Z., Yang, G., Cai, F.P., Jiang, B., Chen, H., Tan, C.H.	Recovery and Reuse of Spent LiFePO <sub>4</sub> Batteries	spent batteries, lithium iron phosphate, recycling	22, 3, 119-124	<a href="https://doi.org/10.14447/jnmes.v22i3.a01">https://doi.org/10.14447/jnmes.v22i3.a01</a>	Qin, X.Z., Yang, G., Cai, F.P., Jiang, B., Chen, H., Tan, C.H. (2019). Recovery and reuse of spent LiFePO <sub>4</sub> batteries. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 3, pp. 119-124. <a href="https://doi.org/10.14447/jnmes.v22i3.a01">https://doi.org/10.14447/jnmes.v22i3.a01</a>
70	Kandasamy, S.K., Kandasamy, K.	Graphene – Polyaniline Nanocomposite Treated with Microwave as a New Supercapacitor Electrode and its Structural, Electrochemical Properties	graphene, polyaniline, supercapacitor, microwave treatment	22, 3, 125-131	<a href="https://doi.org/10.14447/jnmes.v22i3.a02">https://doi.org/10.14447/jnmes.v22i3.a02</a>	Kandasamy, S.K., Kandasamy, K. (2019). Graphene – polyaniline nanocomposite treated with microwave as a new supercapacitor electrode and its structural, electrochemical properties. <i>Journals of New Materials for Electrochemical Systems</i> , Vol. 22, No. 3, pp. 125-131. <a href="https://doi.org/10.14447/jnmes.v22i3.a02">https://doi.org/10.14447/jnmes.v22i3.a02</a>
71	Sulaiman, M., Che Su, N., Mohamed, N.S.	Sol-gel Synthesis and Characterization of MgSO <sub>4</sub> ·Mg(NO <sub>3</sub> ) <sub>2</sub> – Al <sub>2</sub> O <sub>3</sub> Composite Solid Electrolytes	magnesium sulphate, magnesium nitrate, composite solid electrolyte, XRD, DSC	22, 3, 132-138	<a href="https://doi.org/10.14447/jnmes.v22i3.a03">https://doi.org/10.14447/jnmes.v22i3.a03</a>	Sulaiman, M., Che Su, N., Mohamed, N.S. (2019). Sol-gel synthesis and characterization of MgSO <sub>4</sub> ·Mg(NO <sub>3</sub> ) <sub>2</sub> – Al <sub>2</sub> O <sub>3</sub> composite solid electrolytes. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 3, pp. 132-138. <a href="https://doi.org/10.14447/jnmes.v22i3.a03">https://doi.org/10.14447/jnmes.v22i3.a03</a>
72	Siburian, R., Ratih, D., Andriyani, Perangin-Angin, S., Sembiring, H., Supeno, M., Simanjuntak, C., Pratiwi, S.	Facile Method to Synthesize of N-Graphene Nano Sheets	N-graphene nano sheets, graphene nano sheets, amonia, room temperature	22, 3, 139-142	<a href="https://doi.org/10.14447/jnmes.v22i3.a04">https://doi.org/10.14447/jnmes.v22i3.a04</a>	Siburian, R., Ratih, D., Andriyani, Perangin-Angin, S., Sembiring, H., Supeno, M., Simanjuntak, C., Pratiwi, S. (2019). Facile method to synthesize of N-graphene nano sheets. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 3, pp. 139-142. <a href="https://doi.org/10.14447/jnmes.v22i3.a04">https://doi.org/10.14447/jnmes.v22i3.a04</a>
73	Tian, X.P., Zhan, J.Y., Wang, C.L., Cui, X.W.	Preparation of Gold Tailings-incorporated Composite Cementitious Materials and the Mechanism of Chlorine Solidification	gold tailings, composite cementitious materials, chloride ions, friedel salt, ettringite	22, 3, 143-148	<a href="https://doi.org/10.14447/jnmes.v22i3.a05">https://doi.org/10.14447/jnmes.v22i3.a05</a>	Tian, X.P., Zhan, J.Y., Wang, C.L., Cui, X.W. (2019). Preparation of gold tailings-incorporated composite cementitious materials and the mechanism of chlorine solidification. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 3, pp. 143-148. <a href="https://doi.org/10.14447/jnmes.v22i3.a05">https://doi.org/10.14447/jnmes.v22i3.a05</a>
74	Yang, F.H., Zhu, Y., Li, J., Wang, C.L., Ren, Z.Z., Cui, X.W.	Preparation and Performance of Energy-saving and Environment-friendly Autoclaved Aerated Concrete Prepared by Quartz Tailings Sand	quartz tailing sand, autoclaved aerated concrete, fineness, content	22, 3, 149-154	<a href="https://doi.org/10.14447/jnmes.v22i3.a06">https://doi.org/10.14447/jnmes.v22i3.a06</a>	Yang, F.H., Zhu, Y., Li, J., Wang, C.L., Ren, Z.Z., Cui, X.W. (2019). Preparation and performance of energy-saving and environment-friendly autoclaved aerated concrete prepared by quartz tailings sand. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 3, pp. 149-154. <a href="https://doi.org/10.14447/jnmes.v22i3.a06">https://doi.org/10.14447/jnmes.v22i3.a06</a>
75	Srinivasan, V.P., Palani, P.K.	Experimental Investigation on Wire-Electro Discharge Machining of Tungsten Carbide (WC) using Response Surface Methodology (RSM)	WEDM, Tungsten Carbide, Material Removal Rate, surface roughness, RSM, DOE	22, 3, 155-158	<a href="https://doi.org/10.14447/jnmes.v22i3.a07">https://doi.org/10.14447/jnmes.v22i3.a07</a>	Srinivasan, V.P., Palani, P.K. (2019). Experimental investigation on Wire-Electro Discharge Machining of Tungsten Carbide (WC) using Response Surface Methodology (RSM). <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 3, pp. 155-158. <a href="https://doi.org/10.14447/jnmes.v22i3.a07">https://doi.org/10.14447/jnmes.v22i3.a07</a>
76	Yang, F.H., Liang, X.Y., Zhu, Y., Wang, C.L., Zhao, G.F., Cui, X.W.	Preparation of Environmentally Friendly and Energy-saving Autoclaved Aerated Concrete using Gold Tailings	gold tailings, autoclaved aerated concrete, calcium materials, tobermorite	22, 3, 159-164	<a href="https://doi.org/10.14447/jnmes.v22i3.a08">https://doi.org/10.14447/jnmes.v22i3.a08</a>	Yang, F.H., Liang, X.Y., Zhu, Y., Wang, C.L., Zhao, G.F., Cui, X.W. (2019). Preparation of environmentally friendly and energy-saving autoclaved aerated concrete using gold tailings. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 3, pp. 159-164. <a href="https://doi.org/10.14447/jnmes.v22i3.a08">https://doi.org/10.14447/jnmes.v22i3.a08</a>
77	Samson Myles, A., Savadogo, O., Oishi, K.	Concept and Simulation Study of a Novel Building Integrated Photovoltaic Thermal (BIPV-T) Solar Module		22, 3, 165-172	<a href="https://doi.org/10.14447/jnmes.v22i3.a09">https://doi.org/10.14447/jnmes.v22i3.a09</a>	Samson Myles, A., Savadogo, O., Oishi, K. (2019). Concept and simulation study of a novel building integrated photovoltaic thermal (BIPV-T) solar module. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 3, pp. 165-172. <a href="https://doi.org/10.14447/jnmes.v22i3.a09">https://doi.org/10.14447/jnmes.v22i3.a09</a>
78	Zain, N.F., Dzulkurnain, N.A., Ahmad, A., Salleh, F., Mohamed, N.S.	Polymer Electrolytes Based on Novel Poly(Ethyl Methacrylate-co-Deproteinized Natural Rubber) for dye Sensitized Solar Cell Application	P(EMA-co-DPNR), copolymer, magnesium iodide, DSSC	22, 2, 65-69	<a href="https://doi.org/10.14447/jnmes.v22i2.a01">https://doi.org/10.14447/jnmes.v22i2.a01</a>	Zain, N.F., Dzulkurnain, N.A., Ahmad, A., Salleh, F., Mohamed, N.S. (2019). Polymer electrolytes based on novel poly(ethyl methacrylate-co-deproteinized natural rubber) for dye sensitized solar cell application. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 2, pp. 65-69. <a href="https://doi.org/10.14447/jnmes.v22i2.a01">https://doi.org/10.14447/jnmes.v22i2.a01</a>
79	Wang, C.L., Ren, Z.Z., Zheng, Y.C., Ye, P.F., Zhang, K.F., Cui, X.W.	Effects of Heat Treatment System on Mechanical Strength and Crystallinity of CaO·MgO·Al <sub>2</sub> O <sub>3</sub> ·SiO <sub>2</sub> Glass-Ceramics Containing Coal Gangue and Iron Ore Tailings	coal gangue, iron ore tailings, glass-ceramics, mechanical strength, crystallinity	22, 2, 70-78	<a href="https://doi.org/10.14447/jnmes.v22i2.a02">https://doi.org/10.14447/jnmes.v22i2.a02</a>	Wang, C.L., Ren, Z.Z., Zheng, Y.C., Ye, P.F., Zhang, K.F., Cui, X.W. (2019). Effects of heat treatment system on mechanical strength and crystallinity of CaO·MgO·Al <sub>2</sub> O <sub>3</sub> ·SiO <sub>2</sub> glass-ceramics containing coal gangue and iron ore tailings. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 2, pp. 70-78. <a href="https://doi.org/10.14447/jnmes.v22i2.a02">https://doi.org/10.14447/jnmes.v22i2.a02</a>

80	Zhang, X.P., Chen, L.X., Zheng, Y.F., Tang, H.D., Liu, Z.J.	Electrocatalytic Reduction and Detection of 4-Nitrophenol in Water at Free-Standing Cu Nanowire Electrode	Cu nanowires, Electrochemical sensor, Free-standing electrode, 4-Nitrophenol	22, 2, 79-84	<a href="https://doi.org/10.14447/jnmes.v22i2.a03">https://doi.org/10.14447/jnmes.v22i2.a03</a>	Zhang, X.P., Chen, L.X., Zheng, Y.F., Tang, H.D., Liu, Z.J. (2019). Electrocatalytic reduction and detection of 4-nitrophenol in water at free-standing Cu nanowire electrode. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 2, pp. 79-84. <a href="https://doi.org/10.14447/jnmes.v22i2.a03">https://doi.org/10.14447/jnmes.v22i2.a03</a>
81	Wang, Z.J., Li, J., Ye, P.F., Wang, C.L., Cui, X.W.	Microstructure and Hydration Mechanism of Autoclaved Aerated Concrete from Fly Ash	fly ash, siliceous materials, autoclaved aerated concrete, ettringite, tobermorite	22, 2, 85-90	<a href="https://doi.org/10.14447/jnmes.v22i2.a04">https://doi.org/10.14447/jnmes.v22i2.a04</a>	Wang, Z.J., Li, J., Ye, P.F., Wang, C.L., Cui, X.W. (2019). Microstructure and hydration mechanism of autoclaved aerated concrete from fly ash. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 2, pp. 85-90. <a href="https://doi.org/10.14447/jnmes.v22i2.a04">https://doi.org/10.14447/jnmes.v22i2.a04</a>
82	Salama, F.M., Attia, K.A.M., El-Shal, M.A., Said, R.A.M., El-Olemy, A., Abdel-Raouf, A.M.	Anodic Stripping Voltammetric Methods for Determination of Brexpiprazole and its Electrochemical Oxidation Behaviors in Pure Form and Pharmaceutical Preparations	Anodic stripping, Differential Pulse Voltammetry, Square Wave Voltammetry, Brexpiprazole	22, 2, 91-97	<a href="https://doi.org/10.14447/jnmes.v22i2.a05">https://doi.org/10.14447/jnmes.v22i2.a05</a>	Salama, F.M., Attia, K.A.M., El-Shal, M.A., Said, R.A.M., El-Olemy, A., Abdel-Raouf, A.M. (2019). Anodic stripping voltammetric methods for determination of brexpiprazole and its electrochemical oxidation behavior in pure form and pharmaceutical preparations. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 2, pp. 91-97. <a href="https://doi.org/10.14447/jnmes.v22i2.a05">https://doi.org/10.14447/jnmes.v22i2.a05</a>
83	Deng, J.W., Cao, L.	Research on Human Motion Test Based on Biomechanical Sensors Using Electromyography and Pressure Detection Systems	PVDF biomechanical sensor, motion test	22, 2, 98-101	<a href="https://doi.org/10.14447/jnmes.v22i2.a06">https://doi.org/10.14447/jnmes.v22i2.a06</a>	Deng, J.W., Cao, L. (2019). Research on human motion test based on biomechanical sensors using electromyography and pressure detection systems. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 2, pp. 98-101. <a href="https://doi.org/10.14447/jnmes.v22i2.a06">https://doi.org/10.14447/jnmes.v22i2.a06</a>
84	Lv, Y., Zhang, Z., Hou, Q.K., Li, X.C., Zhang, X.Y., Sun, J.L., Zhang, X., Tao, X.H.	Optimization of Sensor Arrays for the Identification of Abalone Flavoring Liquids	abalone flavoring liquid, one-way ANOVA, principal component analysis, optimization of sensor arrays	22, 2, 102-106	<a href="https://doi.org/10.14447/jnmes.v22i2.a07">https://doi.org/10.14447/jnmes.v22i2.a07</a>	Lv, Y., Zhang, Z., Hou, Q.K., Li, X.C., Zhang, X.Y., Sun, J.L., Zhang, X., Tao, X.H. (2019). Optimization of sensor arrays for the identification of abalone flavoring liquids. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 2, pp. 102-106. <a href="https://doi.org/10.14447/jnmes.v22i2.a07">https://doi.org/10.14447/jnmes.v22i2.a07</a>
85	Kashina, S., Balleza, M., Jacobo-Azuara, A., Galindo, R.	Production of Carbonaceous Materials with High Capacitance by Electrochemical Technique	electrochemical synthesis, carbon material, electrochemical supercapacitor	22, 2, 107-111	<a href="https://doi.org/10.14447/jnmes.v22i2.a08">https://doi.org/10.14447/jnmes.v22i2.a08</a>	Kashina, S., Balleza, M., Jacobo-Azuara, A., Galindo, R. (2019). Production of carbonaceous materials with high capacitance by electrochemical technique. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 2, pp. 107-111. <a href="https://doi.org/10.14447/jnmes.v22i2.a08">https://doi.org/10.14447/jnmes.v22i2.a08</a>
86	Tian, X.P., Zheng, Y.C., Wang, C.L., Cui, X.W.	Preparation and Hydration Mechanism of Low Shrinkage Railway Sleeper Concrete Containing Hot Steaming Steel Slag	hot steaming steel slag, railway sleepers concrete with iron ore tailings, autogenous shrinkage, ettringite	22, 2, 112-118	<a href="https://doi.org/10.14447/jnmes.v22i2.a09">https://doi.org/10.14447/jnmes.v22i2.a09</a>	Tian, X.P., Zheng, Y.C., Wang, C.L., Cui, X.W. (2019). Preparation and hydration mechanism of low shrinkage railway sleeper concrete containing hot steaming steel slag. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 2, pp. 112-118. <a href="https://doi.org/10.14447/jnmes.v22i2.a09">https://doi.org/10.14447/jnmes.v22i2.a09</a>
87	Harikiran, G., Moorthi, N.S.V., Karthickeyan, D., Thanikaikarasan, S.	Influence of Annealing Temperature on the Characteristics of Chemical Bath Deposited Zinc Sulphide Thin Films for Solar Cell Applications	Zinc Sulphide thin films, Solution Concentration, Annealing Temperature, Transmittance	22, 1, 1-4	<a href="https://doi.org/10.14447/jnmes.v22i1.a01">https://doi.org/10.14447/jnmes.v22i1.a01</a>	Harikiran, G., Moorthi, N.S.V., Karthickeyan, D., Thanikaikarasan, S. (2019). Influence of annealing temperature on the characteristics of chemical bath deposited zinc sulphide thin films for solar cell applications. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 1, pp. 1-4. <a href="https://doi.org/10.14447/jnmes.v22i1.a01">https://doi.org/10.14447/jnmes.v22i1.a01</a>
88	Sathish, T., Chandramohan, D., Vijayan, V., Sebastian, P.J.	Investigation on Microstructural and Mechanical Properties of Cu Reinforced with SiC Composites Prepared by Microwave Sintering Process	Copper, silicon carbide, graphite, hardness test, compressive test, microstructure test	22, 1, 5-9	<a href="https://doi.org/10.14447/jnmes.v22i1.a02">https://doi.org/10.14447/jnmes.v22i1.a02</a>	Sathish, T., Chandramohan, D., Vijayan, V., Sebastian, P.J. (2019). Investigation on microstructural and mechanical properties of Cu reinforced with SiC composites prepared by microwave sintering process. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 1, pp. 5-9. <a href="https://doi.org/10.14447/jnmes.v22i1.a02">https://doi.org/10.14447/jnmes.v22i1.a02</a>
89	Dinesh, S., Parameswaran, P., Vijayan, V., Thanikaikarasan, S., Rajaguru, K.	Study on Microstructure and Properties of Al-Cu-Li Alloys for Electrochemical Applications	Aluminium alloy, stir casting, microstructure, scanning electron microscope, intermetallics, structural applications	22, 1, 11-14	<a href="https://doi.org/10.14447/jnmes.v22i1.a03">https://doi.org/10.14447/jnmes.v22i1.a03</a>	Dinesh, S., Parameswaran, P., Vijayan, V., Thanikaikarasan, S., Rajaguru, K. (2019). Study on microstructure and properties of Al-Cu-Li alloys for electrochemical applications. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 1, pp. 11-14. <a href="https://doi.org/10.14447/jnmes.v22i1.a03">https://doi.org/10.14447/jnmes.v22i1.a03</a>
90	Sundaraj, M., Subramani, V.	Corrosion Investigation on Magnesium AZ91D alloy coated with EN-Phosphate and Nano additives (ZnO) and its Feasibility in Engine Applications	magnesium AZ91D, electroless nickel coating, neutral salt spray test, corrosion, engines	22, 1, 15-19	<a href="https://doi.org/10.14447/jnmes.v22i1.a04">https://doi.org/10.14447/jnmes.v22i1.a04</a>	Sundaraj, M., Subramani, V. (2019). Corrosion investigation on magnesium AZ91D alloy coated with EN-Phosphate and nano additives (ZnO) and its feasibility in engine applications. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 1, pp. 15-19. <a href="https://doi.org/10.14447/jnmes.v22i1.a04">https://doi.org/10.14447/jnmes.v22i1.a04</a>
91	Roseline, S., Paramasivam, V., Parameswaran, P., Antony, A.G.	Evaluation of Mechanical Properties and Stability of Al 6061 with Addition of ZrO2 And Al2O3	Al6061, ZrO2 & Al2O3, mechanical behavior, fracture toughness, thermal stability	22, 1, 21-23	<a href="https://doi.org/10.14447/jnmes.v22i1.a05">https://doi.org/10.14447/jnmes.v22i1.a05</a>	Roseline, S., Paramasivam, V., Parameswaran, P., Antony, A.G. (2019). Evaluation of mechanical properties and stability of Al 6061 with addition of ZrO2 And Al2O3. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 1, pp. 21-23. <a href="https://doi.org/10.14447/jnmes.v22i1.a05">https://doi.org/10.14447/jnmes.v22i1.a05</a>
92	Vasanthkumar, P., Senthilkumar, N., Palanikumar, K., Rathinam, N.	Influence of Seashell Addition on Thermo-Mechanical Properties of Nylon 66 Polymer Matrix Composite	sea shell particulate, reinforcement, nylon 66, differential scanning calorimetry (DSC), dynamic mechanical analysis (DMA) and thermal gravimetric analysis (TGA)	22, 1, 25-31	<a href="https://doi.org/10.14447/jnmes.v22i1.a06">https://doi.org/10.14447/jnmes.v22i1.a06</a>	Vasanthkumar, P., Senthilkumar, N., Palanikumar, K., Rathinam, N. (2019). Influence of seashell addition on thermo-mechanical properties of nylon 66 polymer matrix composite. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 1, pp. 25-31. <a href="https://doi.org/10.14447/jnmes.v22i1.a06">https://doi.org/10.14447/jnmes.v22i1.a06</a>
93	Dinesh, S., Vijayan, V., Thanikaikarasan, S., Sebastian, P.J.	Productivity and Quality Enhancement in Powder Mixed Electrical Discharge Machining for OHNS Die Steel by Utilization of ANN and RSM Modeling	powder mixed electrical discharge machining (PMEDM), material removal rate (MRR), surface roughness (SR), re-sponse surface methodology (RSM), artificial neural network (ANN), powder concentration	22, 1, 33-43	<a href="https://doi.org/10.14447/jnmes.v22i1.a07">https://doi.org/10.14447/jnmes.v22i1.a07</a>	Dinesh, S., Vijayan, V., Thanikaikarasan, S., Sebastian, P.J. (2019). Productivity and quality enhancement in powder mixed electrical discharge machining for OHNS die steel by utilization of ANN and RSM modeling. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 1, pp. 33-43. <a href="https://doi.org/10.14447/jnmes.v22i1.a07">https://doi.org/10.14447/jnmes.v22i1.a07</a>
94	Yokeswaran, R., Vijayan, V., Karthickeyan, T., Kumar, B.S., Kumar, G.S.	Comprehensive Analysis of Surface Modification Process Parameters by Using Tungsten Inert Gas Welding Process	duplex stainless steel, rockwell C hardness tester, scanning electron microscope, microstructure	22, 1, 45-49	<a href="https://doi.org/10.14447/jnmes.v22i1.a08">https://doi.org/10.14447/jnmes.v22i1.a08</a>	Yokeswaran, R., Vijayan, V., Karthickeyan, T., Kumar, B.S., Kumar, G.S. (2019). Comprehensive analysis of surface modification process parameters by using tungsten inert gas welding process. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 1, pp. 45-49. <a href="https://doi.org/10.14447/jnmes.v22i1.a08">https://doi.org/10.14447/jnmes.v22i1.a08</a>
95	Velmurugan, V., Paramasivam, V., Thanikaikarasan, S., Vaikundraj, T.P.	Experimental Investigation on Material Characteristics of NR Mount and Fluorocarbon Blended NRMounts for Diesel Engine On-Road Vehicle	Diesel engine, rubber mount, fluorocarbon, vibration, noise	22, 1, 51-57	<a href="https://doi.org/10.14447/jnmes.v22i1.a09">https://doi.org/10.14447/jnmes.v22i1.a09</a>	Velmurugan, V., Paramasivam, V., Thanikaikarasan, S., Vaikundraj, T.P. (2019). Experimental investigation on material characteristics of NR mount and fluorocarbon blended NRMounts for diesel engine on-road vehicle. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 1, pp. 51-57. <a href="https://doi.org/10.14447/jnmes.v22i1.a09">https://doi.org/10.14447/jnmes.v22i1.a09</a>
96	Meza, A.F., Campos, J., López, N.R., Romero, L.C., Sebastian, P.J., Thanikaikarasan, S.	Characterization of Graphene Powder / Wireglue / Silver Paint Electrodes for Application in Microbial Fuel Cells	microbial fuel cell, graphene, wireglue, electrodes	22, 1, 59-63	<a href="https://doi.org/10.14447/jnmes.v22i1.a10">https://doi.org/10.14447/jnmes.v22i1.a10</a>	Meza, A.F., Campos, J., López, N.R., Romero, L.C., Sebastian, P.J., Thanikaikarasan, S. (2019). Characterization of graphene powder / wireglue / silver paint electrodes for application in microbial fuel cells. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 22, No. 1, pp. 59-63. <a href="https://doi.org/10.14447/jnmes.v22i1.a10">https://doi.org/10.14447/jnmes.v22i1.a10</a>
97	Liu, M.X., Huang, H.	Ionic Conduction Characteristics of CSmimX Ionic Liquids and Their Hybrids Towards Application to Charge and Lithium-Ion Storage	ionic liquids, conduction, hybrids, molar composition, activation energy, energy storage	21, 4, 199-203	<a href="https://doi.org/10.14447/jnmes.v21i4.a01">https://doi.org/10.14447/jnmes.v21i4.a01</a>	Liu, M.X., Huang, H. (2018). Ionic conduction characteristics of c8mimx ionic liquids and their hybrids towards application to charge and lithium-ion storage. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 4, pp. 199-203. <a href="https://doi.org/10.14447/jnmes.v21i4.a01">https://doi.org/10.14447/jnmes.v21i4.a01</a>
98	Chen, H., Chang, Y.C., Chen, Y.Y., Lo, W.C.	Comparison of ZnO Nanoflakes on Copper and Brass Substrates	ZnO nanoflakes, hydrothermal method, copper substrate, brass substrate	21, 4, 205-209	<a href="https://doi.org/10.14447/jnmes.v21i4.a02">https://doi.org/10.14447/jnmes.v21i4.a02</a>	Chen, H., Chang, Y.C., Chen, Y.Y., Lo, W.C. (2018). Comparison of ZnO nanoflakes on copper and brass substrates. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 4, pp. 205-209. <a href="https://doi.org/10.14447/jnmes.v21i4.a02">https://doi.org/10.14447/jnmes.v21i4.a02</a>
99	Guo, L.L., Luo, Z.H., Zhao, Y.Z., Guo, J., Zhu, M., Luo, K., Huang, A.Z.	Electrochemical Performance and Functionalization of Multiwalled Carbon Nanotubes with a Green and Facile Treatment	cold plasma, multiwalled carbon nanotubes, functionalization, supercapacitor	21, 4, 211-216	<a href="https://doi.org/10.14447/jnmes.v21i4.a03">https://doi.org/10.14447/jnmes.v21i4.a03</a>	Guo, L.L., Luo, Z.H., Zhao, Y.Z., Guo, J., Zhu, M., Luo, K., Huang, A.Z. (2018). Electrochemical performance and functionalization of multiwalled carbon nanotubes with a green and facile treatment. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 4, pp. 211-216. <a href="https://doi.org/10.14447/jnmes.v21i4.a03">https://doi.org/10.14447/jnmes.v21i4.a03</a>

100	Yan, X.Y., Wang, Y.S., Ma, Z.L.	Preparation and Electrochemical Performance of Cobalt Oxides	cobalt oxides, calcination temperature, electrochemical properties, preparation	21, 4, 217-220	<a href="https://doi.org/10.14447/jnmes.v21i4.a04">https://doi.org/10.14447/jnmes.v21i4.a04</a>	Yan, X.Y., Wang, Y.S., Ma, Z.L. (2018). Preparation and electrochemical performance of cobalt oxides. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 4, pp. 217-220. <a href="https://doi.org/10.14447/jnmes.v21i4.a04">https://doi.org/10.14447/jnmes.v21i4.a04</a>
101	Wang, J.J., Li, C.Y., Weng, W.C., Chiu, J.L., Chen, Y.Y., Su, C.H., Tsai, Y.S., Chen, H.	Sulfurization and Antibacterial Properties of ZnS/ZnO Core-shell Structures on Glass Fibers		21, 4, 221-226	<a href="https://doi.org/10.14447/jnmes.v21i4.a05">https://doi.org/10.14447/jnmes.v21i4.a05</a>	Wang, J.J., Li, C.Y., Weng, W.C., Chiu, J.L., Chen, Y.Y., Su, C.H., Tsai, Y.S., Chen, H. (2018). Sulfurization and antibacterial properties of ZnS/ZnO core-shell structures on glass fibers. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 4, pp. 221-226. <a href="https://doi.org/10.14447/jnmes.v21i4.a05">https://doi.org/10.14447/jnmes.v21i4.a05</a>
102	Ozel, K., Kosalay, I., Atilgan, A., Atli, A., Yildiz, Z.K., Yildiz, A.	Performance Improvement of Dye-Sensitized Solar Cells with AZO and BZO Blocking Layers	blocking layer, dopant, natural dye, dye-sensitized solar cell	21, 4, 227-231	<a href="https://doi.org/10.14447/jnmes.v21i4.a06">https://doi.org/10.14447/jnmes.v21i4.a06</a>	Ozel, K., Kosalay, I., Atilgan, A., Atli, A., Yildiz, Z.K., Yildiz, A. (2018). Performance improvement of Dye-Sensitized solar cells with AZO and BZO blocking layers. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 4, pp. 227-231. <a href="https://doi.org/10.14447/jnmes.v21i4.a06">https://doi.org/10.14447/jnmes.v21i4.a06</a>
103	Rahman, M.Y.A., Samsuri, S.A.M., Umar, A.A.	Dye-sensitized Solar Cell Utilizing TiO <sub>2</sub> -sulphur Composite Photoanode: Influence of Sulphur Content	Dye-sensitized solar cells, photoanode, TiO <sub>2</sub> -sulphur composite	21, 4, 233-237	<a href="https://doi.org/10.14447/jnmes.v21i4.a07">https://doi.org/10.14447/jnmes.v21i4.a07</a>	Rahman, M.Y.A., Samsuri, S.A.M., Umar, A.A. (2018). Dye-sensitized solar cell utilizing TiO <sub>2</sub> -sulphur composite photoanode: influence of sulphur content. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 4, pp. 233-237. <a href="https://doi.org/10.14447/jnmes.v21i4.a07">https://doi.org/10.14447/jnmes.v21i4.a07</a>
104	Rajan, N., Thanigaivelan R.R., Muthurajan, K.G.	Effect of Electrochemical Machining Process Parameters on Anisotropic Property of Metal Matrix Composites Al7075	electrochemical machining, acidified electrolyte, anisotropic, metal matrix composites, blind holes	21, 4, 239-242	<a href="https://doi.org/10.14447/jnmes.v21i4.a08">https://doi.org/10.14447/jnmes.v21i4.a08</a>	Rajan, N., Thanigaivelan R.R., Muthurajan, K.G. (2018). Effect of electrochemical machining process parameters on anisotropic property of metal matrix composites Al7075. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 4, pp. 239-242. <a href="https://doi.org/10.14447/jnmes.v21i4.a08">https://doi.org/10.14447/jnmes.v21i4.a08</a>
105	Kharal, H.S., Kamran, M., Qureshi, S.A., Ahmad, W.	Dichlorodifluoromethane (R12)/CO <sub>2</sub> /Air Gas Mixtures a Competent Gaseous Insulator as Surrogate of SF <sub>6</sub>	R12/CO <sub>2</sub> mixtures, insulating material, dielectric properties, environment friendly	21, 4, 243-248	<a href="https://doi.org/10.14447/jnmes.v21i4.a09">https://doi.org/10.14447/jnmes.v21i4.a09</a>	Kharal, H.S., Kamran, M., Qureshi, S.A., Ahmad, W. (2018). Dichlorodifluoromethane (R12)/CO <sub>2</sub> /Air Gas mixtures a competent gaseous insulator as surrogate of SF <sub>6</sub> . <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 4, pp. 243-248. <a href="https://doi.org/10.14447/jnmes.v21i4.a09">https://doi.org/10.14447/jnmes.v21i4.a09</a>
106	Palisoc, S., Canquin, C., Natividad, M.	Heavy Metals in Philippine Rice ( <i>Oryza Sativa</i> ) using Nafion- [Ru(bpy) <sub>3</sub> ] <sup>2+</sup> -Gold Nanoparticles Modified Glassy Carbon Electrodes	differential pulse voltammetry, heavy metals, nafion, ruthenium bipyridyl, gold nanoparticles	21, 3, 133-139	<a href="https://doi.org/10.14447/jnmes.v21i3.543">https://doi.org/10.14447/jnmes.v21i3.543</a>	Palisoc, S., Canquin, C., Natividad, M. (2018). Heavy metals in philippine rice ( <i>oryza sativa</i> ) using nafion- [ru(bpy) <sub>3</sub> ] <sup>2+</sup> -gold nanoparticles modified glassy carbon electrodes. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 3, pp. 133-139. <a href="https://doi.org/10.14447/jnmes.v21i3.543">https://doi.org/10.14447/jnmes.v21i3.543</a>
107	Navaneethkrishnan, B., Nithyanandan, N., Adalarasan, R., Santhanakumar, M., Kumar, P.S.M.	Optimal Performance Evaluation of Energy Efficient Residential Air Conditioning System with Nanofluid-based Intercooler using Taguchi-based Response Surface Methodology	optimal performance, nanofluid, intercooler, air conditioner, coefficient of performance, energy conservation	21, 3, 141-150	<a href="https://doi.org/10.14447/jnmes.v21i3.455">https://doi.org/10.14447/jnmes.v21i3.455</a>	Navaneethkrishnan, B., Nithyanandan, N., Adalarasan, R., Santhanakumar, M., Kumar, P.S.M. (2018). Optimal performance evaluation of energy efficient residential air conditioning system with nanofluid-based intercooler using taguchi-based response surface methodology. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 3, pp. 141-150. <a href="https://doi.org/10.14447/jnmes.v21i3.455">https://doi.org/10.14447/jnmes.v21i3.455</a>
108	Aghazadeh, M.	Surfactant-assisted Pulse Electrodeposition of Hausmannite Nano-rods/particles with Improved Pseudocapacitive Performance	pulse electrodeposition, hausmannite, nano-rods/particles, pseudocapacitive performance	21, 3, 151-156	<a href="https://doi.org/10.14447/jnmes.v21i3.406">https://doi.org/10.14447/jnmes.v21i3.406</a>	Aghazadeh, M. (2018). Surfactant-assisted pulse electrodeposition of hausmannite nano-rods/particles with improved pseudocapacitive performance. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 3, pp. 151-156. <a href="https://doi.org/10.14447/jnmes.v21i3.406">https://doi.org/10.14447/jnmes.v21i3.406</a>
109	Palisoc, S., Canquin, C., Natividad, M.	PVF-PPy Composite as Support Material for Facile Synthesis of Pt@PVP-PPy Catalyst and Its Electroalytic Activity Towards Formic Acid Oxidation	Pt particles, Poly(vinylferrocenium), Poly(pyrrrole), formic acid electrooxidation, supported catalyst	21, 3, 157-162	<a href="https://doi.org/10.14447/jnmes.v21i3.502">https://doi.org/10.14447/jnmes.v21i3.502</a>	Palisoc, S., Canquin, C., Natividad, M. (2018). PVF-PPy composite as support material for facile synthesis of Pt@PVP-PPy catalyst and its electroalytic activity towards formic acid oxidation. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 3, pp. 157-162. <a href="https://doi.org/10.14447/jnmes.v21i3.502">https://doi.org/10.14447/jnmes.v21i3.502</a>
110	Lal, B., Singh, R.N., Singh, N.K.	Synthesis and Electroalytic Properties of Ni-substituted Co <sub>3</sub> O <sub>4</sub> for Oxygen Evolution in Alkaline Medium	oxygen evolution reaction, spinel type oxide, electrocatalysis, tafel slope, roughness factor	21, 3, 163-170	<a href="https://doi.org/10.14447/jnmes.v21i3.a06">https://doi.org/10.14447/jnmes.v21i3.a06</a>	Lal, B., Singh, R.N., Singh, N.K. (2018). Synthesis and electroalytic properties of ni-substituted Co <sub>3</sub> O <sub>4</sub> for oxygen evolution in alkaline medium. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 3, pp. 163-170. <a href="https://doi.org/10.14447/jnmes.v21i3.a06">https://doi.org/10.14447/jnmes.v21i3.a06</a>
111	Thangadurai, V.	Meta Heuristic Based Simulated Annealing Approach for Design of U-shaped Manufacturing Assembly Line Balancing	u-shaped assembly line, line balancing, sharing, multi-objective, simulated annealing algorithm	21, 3, 171-178	<a href="https://doi.org/10.14447/jnmes.v21i3.a07">https://doi.org/10.14447/jnmes.v21i3.a07</a>	Thangadurai, V. (2018). Meta heuristic based simulated annealing approach for design of u-shaped manufacturing assembly line balancing. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 3, pp. 171-178. <a href="https://doi.org/10.14447/jnmes.v21i3.a07">https://doi.org/10.14447/jnmes.v21i3.a07</a>
112	Sathish, T.	Performance Measurement On Diesel and Cerium Oxide In Diesel On CI Engine	brake thermal efficiency, nanoparticles, cerium oxide, diesel blends, gases, reduced emission	21, 3, 179-185	<a href="https://doi.org/10.14447/jnmes.v21i3.a08">https://doi.org/10.14447/jnmes.v21i3.a08</a>	Sathish, T. (2018). Performance measurement on diesel and cerium oxide in diesel on CI engine. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 3, pp. 179-185. <a href="https://doi.org/10.14447/jnmes.v21i3.a08">https://doi.org/10.14447/jnmes.v21i3.a08</a>
113	Wang, J.J., Weng, W.C., Chiu, J.L., Chen, Y.Y., Su, C.H., Tsai, Y.S., Chen, H.	Synthesis of ZnS/ZnO Core-shell Nanostructures on Kevlar® Fiber	kevlar® fiber, ZnO, ZnS, antibacterial, core-shell structure	21, 3, 187-191	<a href="https://doi.org/10.14447/jnmes.v21i3.a09">https://doi.org/10.14447/jnmes.v21i3.a09</a>	Wang, J.J., Weng, W.C., Chiu, J.L., Chen, Y.Y., Su, C.H., Tsai, Y.S., Chen, H. (2018). Synthesis of ZnS/ZnO core-shell nanostructures on kevlar® fiber. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 3, pp. 187-191. <a href="https://doi.org/10.14447/jnmes.v21i3.a09">https://doi.org/10.14447/jnmes.v21i3.a09</a>
114	Umapathi, K., Meenakshi, S.N., Kalpana, P.	Observation of Modified Poisson Boltzmann and Poisson Boltzmann Models on Silicon Nanowire Field Effect Transistor in Electrolyte Environments for Sensing Applications	biosensor, comparison of mpb and pb, electrical double layer analysis, silicon nanowire FET	21, 3, 193-198	<a href="https://doi.org/10.14447/jnmes.v21i3.a10">https://doi.org/10.14447/jnmes.v21i3.a10</a>	Umapathi, K., Meenakshi, S.N., Kalpana, P. (2018). Observation of modified poisson boltzmann and poisson boltzmann models on silicon nanowire field effect transistor in electrolyte environments for sensing applications. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 3, pp. 193-198. <a href="https://doi.org/10.14447/jnmes.v21i3.a10">https://doi.org/10.14447/jnmes.v21i3.a10</a>
115	Liu, B., Liu, G., Xiao, B., Yan, J.	Molecularly Imprinted Electrochemical Sensor for the Determination of Sulfamethoxazole	molecularly imprinted polymers, sulfamethoxazole, carbon nanotubes	21, 2, 77-80	<a href="https://doi.org/10.14447/jnmes.v21i2.492">https://doi.org/10.14447/jnmes.v21i2.492</a>	Liu, B., Liu, G., Xiao, B., Yan, J. (2018). Molecularly imprinted electrochemical sensor for the determination of sulfamethoxazole. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 2, pp. 77-80. <a href="https://doi.org/10.14447/jnmes.v21i2.492">https://doi.org/10.14447/jnmes.v21i2.492</a>
116	Nadirov, R., Sabirov, Y.	The New Approach to Enhance the Activity of Fe/N/C Catalyst for Oxygen Reduction Reaction by Electrochemical Treatment	Fe/N/C catalyst, synthesis, oxygen reduction reaction, electrochemical treatment	21, 2, 91-95	<a href="https://doi.org/10.14447/jnmes.v21i2.458">https://doi.org/10.14447/jnmes.v21i2.458</a>	Nadirov, R., Sabirov, Y. (2018). The new approach to enhance the activity of Fe/N/C catalyst for oxygen reduction reaction by electrochemical treatment. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 2, pp. 91-95. <a href="https://doi.org/10.14447/jnmes.v21i2.458">https://doi.org/10.14447/jnmes.v21i2.458</a>
117	Lin, H., Jiang, T.Y., Sun, Q.Y., Zhao, G.Z., Shi, J.Y.	The Research Progress of Zinc Bromine Flow Battery	zinc bromine redox flow battery, electrolyte, membrane, electrode	21, 2, 63-70	<a href="https://doi.org/10.14447/jnmes.v21i2.470">https://doi.org/10.14447/jnmes.v21i2.470</a>	Lin, H., Jiang, T.Y., Sun, Q.Y., Zhao, G.Z., Shi, J.Y. (2018). The research progress of zinc bromine flow battery. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 2, pp. 63-70. <a href="https://doi.org/10.14447/jnmes.v21i2.470">https://doi.org/10.14447/jnmes.v21i2.470</a>
118	Shin, J.W., Son, J.T.	Improvement of Electrochemical Performance and Thermal Stability by Reducing Residual Lithium Hydroxide on LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> Active Material using Amorphous Carbon Coating	lithium secondary battery, cathode material, carbon coating, C12H2O11	21, 2, 71-75	<a href="https://doi.org/10.14447/jnmes.v21i2.412">https://doi.org/10.14447/jnmes.v21i2.412</a>	Shin, J.W., Son, J.T. (2018). Improvement of electrochemical performance and thermal stability by reducing residual lithium hydroxide on LiNi <sub>0.8</sub> Co <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2</sub> active material using amorphous carbon coating. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 2, pp. 71-75. <a href="https://doi.org/10.14447/jnmes.v21i2.412">https://doi.org/10.14447/jnmes.v21i2.412</a>
119	Karimi, K.G., Ebrahimi, M., Mozaffari, S.A.	ZnO-carbon active nanostructured thin film fabrication by spin coating technique for enzymatic urea biosensing	ZnO-carbon active thin film, urea biosensor, spin coating, electrochemical impedance spectroscopy	21, 2, 81-89	<a href="https://doi.org/10.14447/jnmes.v21i2.486">https://doi.org/10.14447/jnmes.v21i2.486</a>	Karimi, K.G., Ebrahimi, M., Mozaffari, S.A. (2018). ZnO-carbon active nanostructured thin film fabrication by spin coating technique for enzymatic urea biosensing. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 2, pp. 81-89. <a href="https://doi.org/10.14447/jnmes.v21i2.486">https://doi.org/10.14447/jnmes.v21i2.486</a>

120	Pang, S., Chen, W., Yang, Z., Liu, Z., Fan, X., Xu, X.	Nanocomposite Sheets Composed of Polyamine Nanoparticles and Graphene Oxide as Electrode Materials for High-performance Supercapacitor	nanocomposite, polyamine, graphene oxide sheets, electrode materials, high-performance	21, 2, 97-102	<a href="https://doi.org/10.14447/jnmes.v2i12.469">https://doi.org/10.14447/jnmes.v2i12.469</a>	Pang, S., Chen, W., Yang, Z., Liu, Z., Fan, X., Xu, X. (2018). Nanocomposite sheets composed of polyamine nanoparticles and graphene oxide as electrode materials for high-performance supercapacitor. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 2, pp. 97-102. <a href="https://doi.org/10.14447/jnmes.v2i12.469">https://doi.org/10.14447/jnmes.v2i12.469</a>
121	Sun, H., Liu, J., Chu, K., Memon, S.A., Cen, Z., Zhang, X., Li, D., Xing, F.	Impact of Experimental Parameters on Degradation Mechanism and Service Life Prediction of CFRP Anode during Simulated ICCP Process	CFRP, ICCP, electrochemical, degradation, service life	21, 2, 103-111	<a href="https://doi.org/10.14447/jnmes.v2i12.454">https://doi.org/10.14447/jnmes.v2i12.454</a>	Sun, H., Liu, J., Chu, K., Memon, S.A., Cen, Z., Zhang, X., Li, D., Xing, F. (2018). Impact of experimental parameters on degradation mechanism and service life prediction of CFRP anode during simulated ICCP process. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 2, pp. 103-111. <a href="https://doi.org/10.14447/jnmes.v2i12.454">https://doi.org/10.14447/jnmes.v2i12.454</a>
122	Rahman, M.Y.A., Sulaiman, A.S., Umar, A.A.	Dye-sensitized Solar Cell utilizing Gold Doped Reduced Graphene Oxide Films Counter Electrode	counter electrode, dye-sensitized solar cell, doping, gold, graphene oxide	21, 2, 113-117	<a href="https://doi.org/10.14447/jnmes.v2i12.466">https://doi.org/10.14447/jnmes.v2i12.466</a>	Rahman, M.Y.A., Sulaiman, A.S., Umar, A.A. (2018). Dye-sensitized solar cell utilizing gold doped reduced graphene oxide films counter electrode. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 2, pp. 113-117. <a href="https://doi.org/10.14447/jnmes.v2i12.466">https://doi.org/10.14447/jnmes.v2i12.466</a>
123	Özütok, F., Yakar, E.	Optical and Electrochemical Properties of PB-ZnO and PB-ZnO/MWCNT Nanocomposite Films Deposited by Chemical Bath	Prussian blue films, ZnO structure, multi-walled carbon nanotubes, optical properties, electrochemical properties, chemical bath deposition	21, 2, 119-126	<a href="https://doi.org/10.14447/jnmes.v2i12.462">https://doi.org/10.14447/jnmes.v2i12.462</a>	Özütok, F., Yakar, E. (2018). Optical and electrochemical properties of PB-ZnO and PB-ZnO/MWCNT nanocomposite films deposited by chemical bath. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 2, pp. 119-126. <a href="https://doi.org/10.14447/jnmes.v2i12.462">https://doi.org/10.14447/jnmes.v2i12.462</a>
124	Kadem, S., Etefagh, R., Arabi, H.	Synthesis and Characterization of Zn doped Li(Li <sub>0.21</sub> Mn <sub>0.54</sub> Ni <sub>0.125</sub> Co <sub>0.125</sub> O <sub>2</sub> ) as the Layer Materials For Battery Applications	lithium-ion battery, Li(Li <sub>0.21</sub> Mn <sub>0.54</sub> Ni <sub>0.125</sub> Co <sub>0.125</sub> O <sub>2</sub> ), ZnO <sub>2</sub> , cathode, sol gel, nanopowders	21, 2, 127-131	<a href="https://doi.org/10.14447/jnmes.v2i12.489">https://doi.org/10.14447/jnmes.v2i12.489</a>	Kadem, S., Etefagh, R., Arabi, H. (2018). Synthesis and characterization of Zn doped Li(Li <sub>0.21</sub> Mn <sub>0.54</sub> Ni <sub>0.125</sub> Co <sub>0.125</sub> O <sub>2</sub> ) as the layer materials for battery applications. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 2, pp. 127-131. <a href="https://doi.org/10.14447/jnmes.v2i12.489">https://doi.org/10.14447/jnmes.v2i12.489</a>
125	Dhanalakshmi, A., Thanikaikarasan, S., Natarajan, B., Ramadas, V., Mahalingam, T., Eapen, D., Sebastian, P.J.	Structural and Optical Characterization of ZnO and Glucose Capped ZnO Nanoparticles	Band gap, SEM, X-ray diffraction, ZnO	21, 1, 1-5	<a href="https://doi.org/10.14447/jnmes.v2i11.409">https://doi.org/10.14447/jnmes.v2i11.409</a>	Dhanalakshmi, A., Thanikaikarasan, S., Natarajan, B., Ramadas, V., Mahalingam, T., Eapen, D., Sebastian, P.J. (2018). Structural and optical characterization of ZnO and glucose capped ZnO nanoparticles. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 1, pp. 1-5. <a href="https://doi.org/10.14447/jnmes.v2i11.409">https://doi.org/10.14447/jnmes.v2i11.409</a>
126	Riquelme, J.A., Sebastian, P.J., Gamboa, S.A., Campos, J.	Design and Development of a Real-time Characterization System for Energy Conversion Devices	data acquisition system, energy conversion device, I-V curve tracer, E-I curve tracer	21, 1, 7-13	<a href="https://doi.org/10.14447/jnmes.v2i11.515">https://doi.org/10.14447/jnmes.v2i11.515</a>	Riquelme, J.A., Sebastian, P.J., Gamboa, S.A., Campos, J. (2018). Design and development of a real-time characterization system for energy conversion devices. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 1, pp. 7-13. <a href="https://doi.org/10.14447/jnmes.v2i11.515">https://doi.org/10.14447/jnmes.v2i11.515</a>
127	Jeyakumar, P., Thanikaikarasan, S., Natarajan, B., Mahalingam, T., Ixtilco, L.	Growth of Copper Telluride Thin Films using Electrodeposition	copper telluride, cyclic voltammetry, SnO <sub>2</sub> , optical absorption analysis	21, 1, 15-19	<a href="https://doi.org/10.14447/jnmes.v2i11.516">https://doi.org/10.14447/jnmes.v2i11.516</a>	Jeyakumar, P., Thanikaikarasan, S., Natarajan, B., Mahalingam, T., Ixtilco, L. (2018). Growth of copper telluride thin films using electrodeposition. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 1, pp. 15-19. <a href="https://doi.org/10.14447/jnmes.v2i11.516">https://doi.org/10.14447/jnmes.v2i11.516</a>
128	Sandoval-González, A., Gamboa, S.A.	Analysis of Redox Reactions on Pt-Sn based Nano-catalysts for Direct Methanol Fuel Cell Applications	catalysts, methanol oxidation, oxygen reduction, Pt-SnO <sub>2</sub> /C, PtSn <sub>1</sub> /C, direct methanol fuel cell	21, 1, 21-28	<a href="https://doi.org/10.14447/jnmes.v2i11.517">https://doi.org/10.14447/jnmes.v2i11.517</a>	Sandoval-González, A., Gamboa, S.A. (2018). Analysis of redox reactions on Pt-Sn based nano-catalysts for direct methanol fuel cell applications. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 1, pp. 21-28. <a href="https://doi.org/10.14447/jnmes.v2i11.517">https://doi.org/10.14447/jnmes.v2i11.517</a>
129	Nagajothi, A.J., Karman, R., Thanikaikarasan, S., Sebastian, P.J.	Electrochemical and Thermal Properties of PEO-LITFSI based Gel Polymer Electrolytes with the Effect of Plasticizer and Filler for Lithium-sulfur Batteries	PEO, composite gel polymer electrolyte, ceramic filler, interfacial stability, transport properties	21, 1, 29-32	<a href="https://doi.org/10.14447/jnmes.v2i11.518">https://doi.org/10.14447/jnmes.v2i11.518</a>	Nagajothi, A.J., Karman, R., Thanikaikarasan, S., Sebastian, P.J. (2018). Electrochemical and thermal properties of PEO-LITFSI based gel polymer electrolytes with the effect of plasticizer and filler for lithium-sulfur batteries. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 1, pp. 29-32. <a href="https://doi.org/10.14447/jnmes.v2i11.518">https://doi.org/10.14447/jnmes.v2i11.518</a>
130	Hernández, Y., Moreira, J., Galindo, J.Y., Fanera, N., Ibañez, G., Eapen, D., Sebastian P.J.	Development and Characterization of an Ecological Hydrogen Stove	ecological stove, food cooking, hydrogen, hydrogen stove	21, 1, 33-36	<a href="https://doi.org/10.14447/jnmes.v2i11.519">https://doi.org/10.14447/jnmes.v2i11.519</a>	Hernández, Y., Moreira, J., Galindo, J.Y., Fanera, N., Ibañez, G., Eapen, D., Sebastian P.J. (2018). Development and characterization of an ecological hydrogen stove. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 1, pp. 33-36. <a href="https://doi.org/10.14447/jnmes.v2i11.519">https://doi.org/10.14447/jnmes.v2i11.519</a>
131	Priva, D.C., Daniel, T., Henry, J., Mohanraj, K., Sivakumar, G., Thanikaikarasan, S., Sebastian, P.J.	Thermally Deposited Sb <sub>2</sub> S <sub>3</sub> : Bi Thin Films for Solar Cell Absorber	antimony sulfide, bismuth, thin film, dielectric	21, 1, 37-42	<a href="https://doi.org/10.14447/jnmes.v2i11.520">https://doi.org/10.14447/jnmes.v2i11.520</a>	Priva, D.C., Daniel, T., Henry, J., Mohanraj, K., Sivakumar, G., Thanikaikarasan, S., Sebastian, P.J. (2018). Thermally deposited Sb <sub>2</sub> S <sub>3</sub> : Bi thin films for solar cell absorber. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 1, pp. 37-42. <a href="https://doi.org/10.14447/jnmes.v2i11.520">https://doi.org/10.14447/jnmes.v2i11.520</a>
132	Carbajal, F.G., García, M.A., Gamboa, S.A.	Study of Ethanol Electrooxidation Reaction at Room Temperature on Nanometric Pt-Ru, Pt-Sn and Pt-Ru-Sn in Direct Alcohol Fuel Cells	nanostructured electrocatalyst, Pt-Ru-Sn/C, ethanol electrooxidation, direct ethanol fuel cell	21, 1, 43-49	<a href="https://doi.org/10.14447/jnmes.v2i11.522">https://doi.org/10.14447/jnmes.v2i11.522</a>	Carbajal, F.G., García, M.A., Gamboa, S.A. (2018). Study of ethanol electrooxidation reaction at room temperature on nanometric Pt-Ru, Pt-Sn and Pt-Ru-Sn in direct alcohol fuel cells. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 1, pp. 43-49. <a href="https://doi.org/10.14447/jnmes.v2i11.522">https://doi.org/10.14447/jnmes.v2i11.522</a>
133	Nichelson, A., Thanikaikarasan, S., Karuppassamy, K., Karthickprabhu, S., Mahalingam, T., Shajan, X.S., Valenzuela, E.	Synthesis and Characterization of Li(Li <sub>0.05</sub> Ni <sub>0.6</sub> Fe <sub>0.1</sub> Mn <sub>0.25</sub> O <sub>2</sub> ) Cathode Material for Lithium Ion Batteries	Sol-gel synthesis, Li(Li <sub>0.05</sub> Ni <sub>0.6</sub> Fe <sub>0.1</sub> Mn <sub>0.25</sub> O <sub>2</sub> ), nanoparticles, lithium ion batteries	21, 1, 51-56	<a href="https://doi.org/10.14447/jnmes.v2i11.523">https://doi.org/10.14447/jnmes.v2i11.523</a>	Nichelson, A., Thanikaikarasan, S., Karuppassamy, K., Karthickprabhu, S., Mahalingam, T., Shajan, X.S., Valenzuela, E. (2018). Synthesis and characterization of Li(Li <sub>0.05</sub> Ni <sub>0.6</sub> Fe <sub>0.1</sub> Mn <sub>0.25</sub> O <sub>2</sub> ) cathode material for lithium ion batteries. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 1, pp. 51-56. <a href="https://doi.org/10.14447/jnmes.v2i11.523">https://doi.org/10.14447/jnmes.v2i11.523</a>
134	García, M.A., Gineza, F., Gamboa, S.A.	Oxygen Reduction Reaction on Pt-ZrO <sub>2</sub> /C during the Alcohol Crossover in Experimental Direct Alcohol Fuel Cells	oxygen reduction reaction, alcohol fuel cell, Pt-ZrO <sub>2</sub> , nanoparticles	21, 1, 57-62	<a href="https://doi.org/10.14447/jnmes.v2i11.524">https://doi.org/10.14447/jnmes.v2i11.524</a>	García, M.A., Gineza, F., Gamboa, S.A. (2018). Oxygen reduction reaction on Pt-ZrO <sub>2</sub> /C during the alcohol crossover in experimental direct alcohol fuel cells. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 21, No. 1, pp. 57-62. <a href="https://doi.org/10.14447/jnmes.v2i11.524">https://doi.org/10.14447/jnmes.v2i11.524</a>
135	Yao D., Song Y., Zhang S., Tian Y., Lan X.	Effect of voltage on the treatment of cyanide wastewater by three-dimensional electrode	applied voltage, carbon particle electrode, coal-based electrode, cyanide wastewater, three-dimensional electrode	20, 4, 151-159	<a href="https://doi.org/10.14447/jnmes.v20i4.318">https://doi.org/10.14447/jnmes.v20i4.318</a>	Yao D., Song Y., Zhang S., Tian Y., Lan X. (2017). Effect of voltage on the treatment of cyanide wastewater by three-dimensional electrode. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 4, pp. 151-159. <a href="https://doi.org/10.14447/jnmes.v20i4.318">https://doi.org/10.14447/jnmes.v20i4.318</a>
136	Sathish T.	Heat transfer analysis of nano-fluid flow in a converging nozzle with different aspect ratios	converging nozzle, flow rate, heat transfer, nanofluid	20, 4, 161-167	<a href="https://doi.org/10.14447/jnmes.v20i4.321">https://doi.org/10.14447/jnmes.v20i4.321</a>	Sathish T. (2017). Heat transfer analysis of nano-fluid flow in a converging nozzle with different aspect ratios. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 4, pp. 161-167. <a href="https://doi.org/10.14447/jnmes.v20i4.321">https://doi.org/10.14447/jnmes.v20i4.321</a>
137	Zhang H., Yuan J., Zhu M.	Preparation and characterization of TiN-SBR coating on metallic bipolar plates for polymer electrolyte membrane fuel cell	Bipolar Plates, Coating, Proton Exchange Membrane Fuel Cell, Stainless Steel, TiN-SBR	20, 4, 169-173	<a href="https://doi.org/10.14447/jnmes.v20i4.314">https://doi.org/10.14447/jnmes.v20i4.314</a>	Zhang H., Yuan J., Zhu M. (2017). Preparation and characterization of TiN-SBR coating on metallic bipolar plates for polymer electrolyte membrane fuel cell. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 4, pp. 169-173. <a href="https://doi.org/10.14447/jnmes.v20i4.314">https://doi.org/10.14447/jnmes.v20i4.314</a>
138	Xi X., Yang C., Liu L., Zhu S., Chao H., Zhao L.	Controlled synthesis of ZnO nanostructures by electrodeposition without any pretreatment and additive reagent	electrodeposition, nanostructure, ZnO	20, 4, 175-181	<a href="https://doi.org/10.14447/jnmes.v20i4.270">https://doi.org/10.14447/jnmes.v20i4.270</a>	Xi X., Yang C., Liu L., Zhu S., Chao H., Zhao L. (2017). Controlled synthesis of ZnO nanostructures by electrodeposition without any pretreatment and additive reagent. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 4, pp. 175-181. <a href="https://doi.org/10.14447/jnmes.v20i4.270">https://doi.org/10.14447/jnmes.v20i4.270</a>
139	Wang J., Song K., Tong C., Tian G., Wu J., Gao H., Xu J.M.	TiO <sub>2</sub> -B/Ag nanocomposite wires enhanced electrochemical performance for Li-ion batteries	hydrothermal, nanowires, TiO <sub>2</sub> -B/Ag	20, 4, 183-188	<a href="https://doi.org/10.14447/jnmes.v20i4.319">https://doi.org/10.14447/jnmes.v20i4.319</a>	Wang J., Song K., Tong C., Tian G., Wu J., Gao H., Xu J.M. (2017). TiO <sub>2</sub> -B/Ag nanocomposite wires enhanced electrochemical performance for Li-ion batteries. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 4, pp. 183-188. <a href="https://doi.org/10.14447/jnmes.v20i4.319">https://doi.org/10.14447/jnmes.v20i4.319</a>

140	Hussein B., Gouda M.A., Fathalla W., Arabi S.	Europium-(7-carboxymethoxy-4-methyl coumarin) <sub>2</sub> Complex based Electrochemical Probe for DNA based on the Interaction between Them	DNA binding, Eu (III) -7-Carboxymethoxy -4-Methyl Coumarin (CMC), potentiometry, voltammetry	20, 4, 189-195	<a href="https://doi.org/10.14447/jnmes.v20i4.445">https://doi.org/10.14447/jnmes.v20i4.445</a>	Hussein B., Gouda M.A., Fathalla W., Arabi S. (2017). Europium-(7-carboxymethoxy-4-methyl coumarin) <sub>2</sub> Complex based Electrochemical Probe for DNA based on the Interaction between Them. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 4, pp. 189-195. <a href="https://doi.org/10.14447/jnmes.v20i4.445">https://doi.org/10.14447/jnmes.v20i4.445</a>
141	Chen W., Pang S., Liu Z., Yang Z., Fan X., Fang D.	Hierarchical dendritic polypyrrole with high specific capacitance for high-performance supercapacitor electrode materials		20, 4, 197-204	<a href="https://doi.org/10.14447/jnmes.v20i4.449">https://doi.org/10.14447/jnmes.v20i4.449</a>	Chen W., Pang S., Liu Z., Yang Z., Fan X., Fang D. (2017). Hierarchical dendritic polypyrrole with high specific capacitance for high-performance supercapacitor electrode materials. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 4, pp. 197-204. <a href="https://doi.org/10.14447/jnmes.v20i4.449">https://doi.org/10.14447/jnmes.v20i4.449</a>
142	Chen W., Weimin H., Li D., Chen S., Dai Z.	The preparation approaches of polymer/graphene nanocomposites and their application research progress as electrochemical sensors	electrochemical sensors, graphene, nanocomposites, performance, polymer	20, 4, 205-221	<a href="https://doi.org/10.14447/jnmes.v20i4.356">https://doi.org/10.14447/jnmes.v20i4.356</a>	Chen W., Weimin H., Li D., Chen S., Dai Z. (2017). The preparation approaches of polymer/graphene nanocomposites and their application research progress as electrochemical sensors. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 4, pp. 205-221. <a href="https://doi.org/10.14447/jnmes.v20i4.356">https://doi.org/10.14447/jnmes.v20i4.356</a>
143	Ding K., Wei B., Zhang Y., Li C., Shi X., Pan J.	Can the calcined weathered stones be employed as anode materials for lithium ion batteries?	anode materials, calcination, calcination temperature, lithium ions battery, weathered stone	20, 4, 223-230	<a href="https://doi.org/10.14447/jnmes.v20i4.451">https://doi.org/10.14447/jnmes.v20i4.451</a>	Ding K., Wei B., Zhang Y., Li C., Shi X., Pan J. (2017). Can the calcined weathered stones be employed as anode materials for lithium ion batteries? <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 4, pp. 223-230. <a href="https://doi.org/10.14447/jnmes.v20i4.451">https://doi.org/10.14447/jnmes.v20i4.451</a>
144	Luo K., Zhu M., Zhao Y., Luo Z.	Functionalization of carbon fibers with nitrogen and oxygen as high performance supercapacitor	carbon fibers, cold plasma, nitrogen groups, oxygen groups, supercapacitors	20, 4, 231-237	<a href="https://doi.org/10.14447/jnmes.v20i4.452">https://doi.org/10.14447/jnmes.v20i4.452</a>	Luo K., Zhu M., Zhao Y., Luo Z. (2017). Functionalization of carbon fibers with nitrogen and oxygen as high performance supercapacitor. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 4, pp. 231-237. <a href="https://doi.org/10.14447/jnmes.v20i4.452">https://doi.org/10.14447/jnmes.v20i4.452</a>
145	Sadikin S.N., Rahman M.Y.A., Umar A.A.	TiO <sub>2</sub> -BaTiO <sub>3</sub> composite films as photoanode for dye sensitized solar cell: Effect of BaTiO <sub>3</sub> content	barium titanate, composite, DSSC, photoanode, titanium dioxide	20, 3, 109-113	<a href="https://doi.org/10.14447/jnmes.v20i3.325">https://doi.org/10.14447/jnmes.v20i3.325</a>	Sadikin S.N., Rahman M.Y.A., Umar A.A. (2017). TiO <sub>2</sub> -BaTiO <sub>3</sub> composite films as photoanode for dye sensitized solar cell: Effect of BaTiO <sub>3</sub> content. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 3, pp. 109-113. <a href="https://doi.org/10.14447/jnmes.v20i3.325">https://doi.org/10.14447/jnmes.v20i3.325</a>
146	Rahman M.Y.A., Roza L., Samsuri S.A.M., Umar A.A., Salleh M.M.	Dye-sensitized solar cell (DSSC) utilizing TiO <sub>2</sub> films prepared via microwave irradiation technique: Effect of TiO <sub>2</sub> growth time	dye-sensitized solar cell, microwave, photoanode, titanium dioxide	20, 2, 59-64	<a href="https://doi.org/10.14447/jnmes.v20i2.298">https://doi.org/10.14447/jnmes.v20i2.298</a>	Rahman M.Y.A., Roza L., Samsuri S.A.M., Umar A.A., Salleh M.M. (2017). Dye-sensitized solar cell (DSSC) utilizing TiO <sub>2</sub> films prepared via microwave irradiation technique: Effect of TiO <sub>2</sub> growth time. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 2, pp. 59-64. <a href="https://doi.org/10.14447/jnmes.v20i2.298">https://doi.org/10.14447/jnmes.v20i2.298</a>
147	Lin Y., Cheng L., Wei G.B., He L.L., Chen C.D., De Rong K., Peng H., Fan H.	Reagentless, electrochemical aptasensor for lead (II) detection	aptasensor, electrochemical, Lead (II), reagentless	20, 1, 1-5	<a href="https://doi.org/10.14447/jnmes.v20i1.286">https://doi.org/10.14447/jnmes.v20i1.286</a>	Lin Y., Cheng L., Wei G.B., He L.L., Chen C.D., De Rong K., Peng H., Fan H. (2017). Reagentless, electrochemical aptasensor for lead (II) detection. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 1, pp. 1-5. <a href="https://doi.org/10.14447/jnmes.v20i1.286">https://doi.org/10.14447/jnmes.v20i1.286</a>
148	Yaqub A., Isa M.H., Ajab H., Junaid M.	Preparation of Ti/TiO <sub>2</sub> anode for electrochemical oxidation of toxic priority pollutants	degradation, electrochemical, PAHs, Ti-TiO <sub>2</sub>	20, 1, 7-12	<a href="https://doi.org/10.14447/jnmes.v20i1.287">https://doi.org/10.14447/jnmes.v20i1.287</a>	Yaqub A., Isa M.H., Ajab H., Junaid M. (2017). Preparation of Ti/TiO <sub>2</sub> anode for electrochemical oxidation of toxic priority pollutants. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 1, pp. 7-12. <a href="https://doi.org/10.14447/jnmes.v20i1.287">https://doi.org/10.14447/jnmes.v20i1.287</a>
149	Ma X., Zhao S., Zhang S.	Study on the performance of the ionic liquids [Emin]CH <sub>3</sub> SO <sub>3</sub> and [Emin]PF <sub>6</sub> to prepare the biosensor of the detection of heavy metals in seawater	heavy metal ions, ionic liquid, conductivity, electrochemistry, sea water	20, 1, 13-20	<a href="https://doi.org/10.14447/jnmes.v20i1.288">https://doi.org/10.14447/jnmes.v20i1.288</a>	Ma X., Zhao S., Zhang S. (2017). Study on the performance of the ionic liquids [Emin]CH <sub>3</sub> SO <sub>3</sub> and [Emin]PF <sub>6</sub> to prepare the biosensor of the detection of heavy metals in seawater. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 1, pp. 13-20. <a href="https://doi.org/10.14447/jnmes.v20i1.288">https://doi.org/10.14447/jnmes.v20i1.288</a>
150	Jang B.C., Shin J.W., Bae J.J., Son J.T.	Characteristic of novel composition NaX [Ni <sub>0.6</sub> Co <sub>0.2</sub> Mn <sub>0.2</sub> ]O <sub>2</sub> as cathode materials for so-dium ion-batteries	cathode material, co-precipitation, sodium ion battery	20, 1, 21-24	<a href="https://doi.org/10.14447/jnmes.v20i1.290">https://doi.org/10.14447/jnmes.v20i1.290</a>	Jang B.C., Shin J.W., Bae J.J., Son J.T. (2017). Characteristic of novel composition NaX [Ni <sub>0.6</sub> Co <sub>0.2</sub> Mn <sub>0.2</sub> ]O <sub>2</sub> as cathode materials for so-dium ion-batteries. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 1, pp. 21-24. <a href="https://doi.org/10.14447/jnmes.v20i1.290">https://doi.org/10.14447/jnmes.v20i1.290</a>
151	Ghanem M.A., El-Hallag I.S., Al-Mayouf A.M.	Electrochemical behavior and convoluted voltammetry of carbon nanotubes modified with anthraquinone	convolution voltammetry, diffusion coefficient, digital simulation, heterogeneous rate constant	20, 1, 25-30	<a href="https://doi.org/10.14447/jnmes.v20i1.291">https://doi.org/10.14447/jnmes.v20i1.291</a>	Ghanem M.A., El-Hallag I.S., Al-Mayouf A.M. (2017). Electrochemical behavior and convoluted voltammetry of carbon nanotubes modified with anthraquinone. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 1, pp. 25-30. <a href="https://doi.org/10.14447/jnmes.v20i1.291">https://doi.org/10.14447/jnmes.v20i1.291</a>
152	Jiang J., Cai Y., Tang L.	A green and efficient michael addition of indoles to $\alpha$ , $\beta$ -unsaturated electron-deficient compounds and synthesis of bis-indolylmethanes catalyzed by gallium dodecyl sulfate [Ga(DS) <sub>3</sub> ] in water	Ga (DS) <sub>3</sub> , indoles, michael addition, $\alpha$ $\beta$ -unsaturated ketones	20, 1, 31-37	<a href="https://doi.org/10.14447/jnmes.v20i1.292">https://doi.org/10.14447/jnmes.v20i1.292</a>	Jiang J., Cai Y., Tang L. (2017). A green and efficient michael addition of indoles to $\alpha$ , $\beta$ -unsaturated electron-deficient compounds and synthesis of bis-indolylmethanes catalyzed by gallium dodecyl sulfate [Ga(DS) <sub>3</sub> ] in water. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 1, pp. 31-37. <a href="https://doi.org/10.14447/jnmes.v20i1.292">https://doi.org/10.14447/jnmes.v20i1.292</a>
153	Torabi M., Neyshabouri A.T., SoltanMohammad B., Razaivi S.H., Rad M.K.	Effect of milling on the electrochemical properties of nanostructured Li(Fe <sub>0.8</sub> Mn <sub>0.2</sub> )PO <sub>4</sub> as cathodes for li-ion batteries	ball milling, lithium-ion battery, nanostructures, phospho-olivines	20, 1, 39-42	<a href="https://doi.org/10.14447/jnmes.v20i1.293">https://doi.org/10.14447/jnmes.v20i1.293</a>	Torabi M., Neyshabouri A.T., SoltanMohammad B., Razaivi S.H., Rad M.K. (2017). Effect of milling on the electrochemical properties of nanostructured Li(Fe <sub>0.8</sub> Mn <sub>0.2</sub> )PO <sub>4</sub> as cathodes for li-ion batteries. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 1, pp. 39-42. <a href="https://doi.org/10.14447/jnmes.v20i1.293">https://doi.org/10.14447/jnmes.v20i1.293</a>
154	Alenzi K.	Manganese (III) porphyrin as electrocatalyst for hydrogen evolution reaction	electrocatalysis, hydrogen, manganese (III)i complex, porphyrin, porphyrin	20, 1, 43-47	<a href="https://doi.org/10.14447/jnmes.v20i1.294">https://doi.org/10.14447/jnmes.v20i1.294</a>	Alenzi K. (2017). Manganese (III) porphyrin as electrocatalyst for hydrogen evolution reaction. <i>Journal of New Materials for Electrochemical Systems</i> , Vol. 20, No. 1, pp. 43-47. <a href="https://doi.org/10.14447/jnmes.v20i1.294">https://doi.org/10.14447/jnmes.v20i1.294</a>