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**2023**



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If you have any new ideas for a book or publication and wish to discuss this with me and my editorial team, then please contact me at [anne.kristin@scientific.net](mailto:anne.kristin@scientific.net). This can be a new conference you are involved in or a new idea for a monograph or textbook in engineering and materials sciences.

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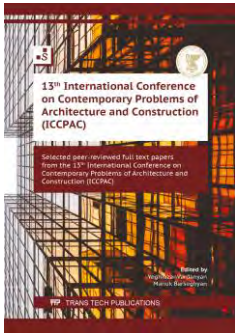
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Published 2022

- Conference Proceedings
- Special Topic Books





**13th International Conference on Contemporary Problems of Architecture and Construction (ICCPAC)**

**Selected peer-reviewed full text papers from the 13th International Conference on Contemporary Problems of Architecture and Construction (ICCPAC), October 06-08, 2021, Yerevan, Armenia**

Edited by: Yeghiazar Vardanyan and Dr. Manuk Barseghyan

**Conference Proceedings**

**Topics:** Building Materials, Civil Engineering, Construction, Industrial Engineering

**Keywords:** Binder, Clay, Concrete, Mechanical Properties, Reinforcement, Soil, Steel, Structural Element, Thermal Insulation

**Prices:** Print: **US\$ 55.00/ EUR 55.00** Print: 978-3-0364-0019-8  
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<https://www.scientific.net/978-3-0364-0019-8/book>



**Achievements and Trends in Material Forming**

**Peer-reviewed extended papers selected from the 25th International Conference on Material Forming (ESAFORM 2022), April 27-29, 2022, Portugal**

Edited by: Gabriela Vincze and Frédéric Barlat

**Special Topic**

**Topics:** Information Technologies, Manufacturing, Materials Science, Mechanics

**Keywords:** Additive Manufacturing, Alloy, Composite, Cutting, Drawing, Electrical Discharge Machining, Embossing, Extrusion, Forging, Formability, Forming, Friction Stir Extrusion, Friction Stir Welding, Incremental Forming, Inverse Analysis, Joining, Machining, Material Behaviour, Material Parameter, Modelling, Numerical Evaluation, Polymer, Rolling, Sheet Metal Forming, Steel, Sustainability

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 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 2454 pages, 2022

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**Advanced Engineering Forum Vol. 44**

Edited by: Dumitru Nedelcu and Mikkel K. Kragh

**Journal Volume**

**Topics:** General Engineering, Mechanical Engineering

**Keywords:** Artificial Neural Networks, Bearings, Carbon Fiber, Cathode, Clay Filte, Coexistence, Constructed Wetland, Doping, Drain Current, Electricity Consumption Prediction, Field-effect Transistors, Germanium, Graphitized Mesocarbon Microbeads, Heterostructure, IEEE 802.11 (Wi-Fi), IEEE 802.16 (WiMAX), Lithium-Sulfur Battery, Mechanical Properties, Mobile Communications, Operating Conditions, Photocatalytic Decomposition, Power Network, Recycled Concrete, Steel Fibers, Structural Reinforcement, Styrene Butadiene Rubber Latex, Threshold Voltage, Unlicensed Frequencies, Wastewater Treatment

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**Journal Volume**

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**Keywords:** Biological Filter, Bridge Pier, Cloud Computing, Constructed Wetland, Corrosion Inhibition, Counter Electrode, Cyber-Manufacturing System, Dye-Sensitized Solar Cell, Electrochemical Impedance, Electrodynamical Actuator, Flexure Hinge, Fracture Mechanics, Frictional Contact, High-Voltage Transformer, Hybrid Renewable Energy System, Internet-of-Things, Local Scour, Microgrid, Morphing Wing, Optimisation, Piezoelectric Transducer, Polymer, Rail Joint, Sediment Erosion, Wastewater Treatment

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**Advanced Engineering Forum Vol. 46**

Edited by: Dumitru Nedelcu, Mikkel K. Kragh and Nicușor-Alin SÎRBU

**Journal Volume**

**Topics:** Building Materials, General Engineering, Industrial Engineering, Manufacturing, Materials Science, Mechanical Engineering, Mechanics, Nanoscience

**Keywords:** Adaptive Model Predictive Control, Biomass Cookstove, Carbon Fibre, Cement, Epoxy Resin, Heat Transfer, Hybrid Power System, Inspection Personnel, Ionic Liquid, Magnetohydrodynamics, Mass Transfer, Metal Matrix Composite, Micro-Grid, Modelling, Nanocomposite, Nanotube, Polymer, Quality Requirements, Reinforcement, Sandcrete Block, Strength Properties, Welding

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Edited by: Dumitru Nedelcu, Mikkel K. Kragh and Prof. Ahmed H. El-Shazly

**Journal Volume**

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**Keywords:** Additive, Asphalt Mixture, Automatic Sliding Doors, Clay, Electrical Energy Harvesting, Elevator Car, Environmental, Flash Flood, Gas Turbine, Groundwater Management, Hazard Assessment, Nanofluid, Natural Convection, Probabilistic Design, Rolling Bearing, Used Tires

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Edited by: Ramya Muthusamy and Thangaprakash Sengodan

**Conference Proceedings**

**Topics:** Building Materials, Manufacturing, Materials Science, Mechanics, Nanoscience

**Keywords:** 3D Printing, Alloy, Biotechnology, Building Materials, Composite, Electrolyte, Electronic Properties, Food Processing, Friction Stir Spot Welding, Functional Materials, Hydro-Forming, Mechanical Properties, Metal Matrix Composite, Nanomaterial, Physical Chemistry, Phytochemistry, Polymer, Semiconductor, Solar Cell, Structural Element

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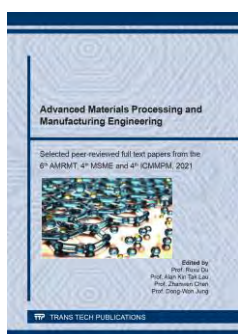
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**Topics:** Bioscience and Medicine, Building Materials, Materials Science, Nanoscience

**Keywords:** Alloy, Bioactive Dressing, Cement, Composite, Concrete, Geopolymer, Graphene, Mechanical Properties, Membrane, Mortar, Nanocomposite, Nanofluid, Nanomaterials, Nanoparticle, Photodegradation, Polymer, Wastewater Treatment

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**Advanced Materials Processing and Manufacturing Engineering**

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Edited by: Prof. Ruxu Du, Prof. Alan Kin Tak Lau, Prof. Zhanwen Chen and Prof. Dong-Won Jung

**Conference Proceedings**

**Topics:** Electronics, Manufacturing, Materials Science, Mechanics, Nanoscience

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**Advanced Materials Research Vol. 1170**

Edited by: Prof. Alan Kin Tak Lau

**Journal Volume**

**Topics:** Building Materials, Materials Science, Nanoscience

**Keywords:** Adsorption, Alloy, Arsenate, Cermet Coating, Composite, Corrosion, Crystal-Originated Pits, Finite Element Modeling, Fire Retardant Materials, Foamed Cellular Concrete, Laser Remelting, Light Emitting Diode, Mechanical Properties, Mesoporous Silica, Micro Friction Stir Welding, Natural Fiber, Paper Pulping, Pharmaceutical Pollutant, Plasma Arc Welding, Quantum Well, Semiconductor, Surface Water, Thermal Spraying, Woody Materials

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**Journal Volume**

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Edited by: Sarjito, Assoc. Prof. Dr. Waluyo Adi Siswanto, Assoc. Prof. Dr. Mohammad Sukri Mustapa, Assoc. Prof. Dr. Tri Widodo Besar Riyadi and Assoc. Prof. Dr. Agus Dwi Anggono

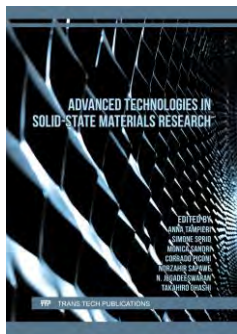
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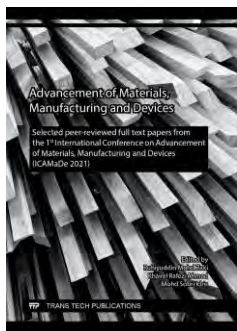
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Edited by: Dr. Ruhuyuddin Mohd Zaki, Dr. Khairael Rafezi Ahmad and Dr. Mohd Sobri Idris

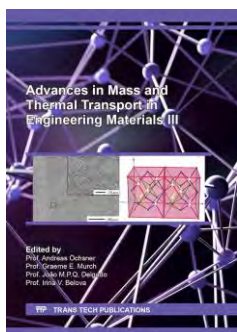
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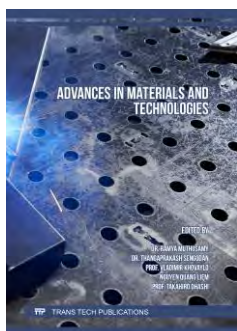
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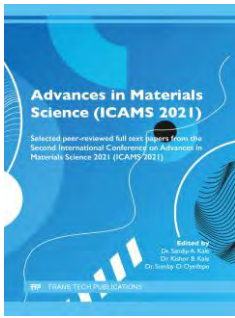
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**Selected peer-reviewed full text papers from the Second International Conference on Advances in Materials Science 2021 (ICAMS 2021), December 16-17, 2021, Ahmednagar, India**

Edited by: Dr. Sandip A. Kale, Dr. Kishor B. Kale and Dr. Sunday O. Oyedepo

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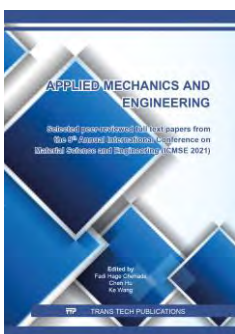
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**Keywords:** Adsorbent, Alloy, Bioplastic Fertilizer (BpF), Ceramics, Corrosion, Food Production, Functional Materials, Green Synthesis, Industrial Waste, Nanomaterials, Nanotechnology, Optoelectronics, Photocatalytic Degradation, Photoluminescence Study, Photovoltaics, Solar Cell

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**Applied Mechanics and Engineering**

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**Applied Mechanics and Materials Vol. 906**

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**Journal Volume**

**Topics:** Bioscience and Medicine, Building Materials, Construction, Industrial Engineering, Information Technologies, Manufacturing, Materials Science, Mechanical Engineering, Mechanics

**Keywords:** Bibliometric Analysis, Bridge Capacity, Bridge Model, Buoyancy Control, Cutting Force, Design, Dynamic Nonlinear Analysis, Masonry, Modelling, Overstrength Factor, Parameter Optimisation, Phase Change Material, Production Strategy, Robotic Milling, Sealed Cabin, Seismic Behaviour, Shape Memory Effect, Smart Biomaterial, Smart Factory, Two-Phase Flow

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**Conference Proceedings**

**Topics:** Building Materials, Civil Engineering, Construction, Materials Science, Mechanics

**Keywords:** Adobe, Bamboo, Basalt, Binder, Bioactive Cement, Bio-Based Composite, Biological Stabiliser, Biopolymer, Building Materials, Clay, Cob, Concrete, Cork, Earth Plaster, Green Concrete, Gypsum, Hemp Fiber, Hempcrete Block, Life Cycle Assessment, Limestone, Linseed Oil, Mechanical Properties, Moisture, Mortar, Mycelium Composite, Natural Material, Pozzolan, Rammed Earth, Reinforcement, Rice Husk, Seashells, Shavings, Sunflower Pith, Thermal Properties, Timber, Vegetal Wool, Wood

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**Conference Proceedings**

**Topics:** Materials Science, Nanoscience

**Keywords:** Adsorption, Alloy, Coating, Composite, Corrosion Resistance, Electrochemical Properties, Extraction, Mechanical Properties, Metal, Nitriding, Polymer, Surface Treatment, Thermomechanical Treatment, Water Treatment

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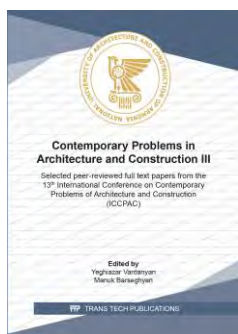
**Special Topic**

**Topics:** Building Materials, Materials Science

**Keywords:** Alloy, Bio-Based Materials, Biocomposite, Biorefining Technologies, Buildings Materials, Cellulose, Cladding, Corrosion, Laser Processing, Mechanical Properties, Polymer, Polymerisation, Refractory Ceramics, Steel, Thermal Insulation Materials, Wood

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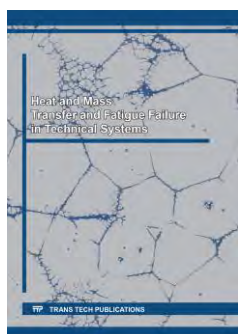
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**Topics:** Building Materials, Manufacturing, Materials Science, Nanoscience

**Keywords:** Adsorption, Alloy, Biomaterials, Cement, Ceramics, Coating, Composite, Concrete, Desulfurization, Dye Degradation, Geopolymer, Graphene, Laser Processing, Mechanical Properties, Metal Oxides, Metallurgy, Mineral Processing, Mortar, Nanomaterials, Optical Properties, Pharmacology, Polymer, Quantum Dots, Semiconductor, Steel, Thin Film, Ultrafiltration

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**Defect and Diffusion Forum Vol. 415**

Edited by: Dr. Sergiy V. Divinski

**Journal Volume**

**Topics:** Building Materials, Construction, Materials Science, Mechanical Engineering, Mechanics

**Keywords:** Boiler Tube, Concrete Structure, Convection, Cyclic Tensile Stress, Damage, External Load, Fatigue Failure, Fluid Flow, Heat Exchanger, Heat Transfer, Mass Transfer, Pipeline, Plasticity Model, Thermal Performance

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**Defect and Diffusion Forum Vol. 416**

Edited by: Nicușor-Alin SÎRBU and Dr. Roto Roto

**Journal Volume**

**Topics:** Materials Science

**Keywords:** Adhesive, Alloy, ARC Welding, Bonding, Corrosion Inhibitor, Dissimilar Joint, Electrolyte Membrane, Friction Stir Welding, Fuel Cell, Mechanical Properties, Microstructure, Soldering, Spot Welding, Steel, TIG Welding

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**Defect and Diffusion Forum Vol. 417**

Edited by: Agus Purwanto, Dr. Hendri Widiyandari, Dr. Anif Jamaluddin, Prof. Steven Y. Liang, Dr. Josef Kasl, Prof. Thanh Nam Nguyen and Prof. Chafic-Touma Salame

**Journal Volume**

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**Keywords:** 3D Printing, Alloy, Anode, Casting Defect, Cathode, Electrical Properties, Electrochemical Properties, Hobbing, Li-Ion Battery, Materials Testing, Mechanical Properties, Optical Properties, Semi-Solid Die Casting, Solar Cell, Steel, Surface Treatment, Transparent Conductive Oxide, Tungsten, Welding

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**Defect and Diffusion Forum Vol. 418**

Edited by: Dr. Amjad Ali, Dr. Omar S. Dahham, Prof. Saltuk Buğra Selçuklu and Mustafa Serdar Genç

**Journal Volume**

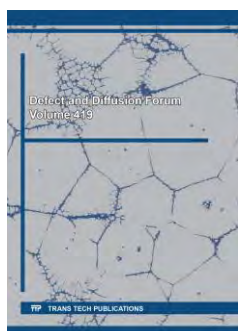
**Topics:** Electronics, Materials Science, Mechanics, Nanoscience

**Keywords:** Alloy, Condensed Matter Physics, Crack Propagation, Damage Analysis, Electronic State, Materials Failure, Mechanical Properties, Nanostructure, Pulsed Laser Deposition, Quantum Dots, Semiconductor, Steel, Tensile Fracture, Thermodynamics Properties, Viscosity

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**Defect and Diffusion Forum Vol. 419**

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**Journal Volume**

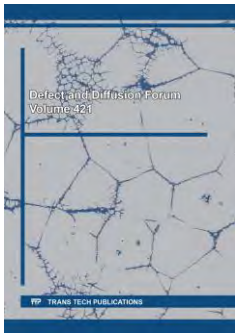
**Topics:** Building Materials, Materials Science, Mechanical Engineering, Mechanics, Nanoscience

**Keywords:** Alloy, Composite, Computational Materials Science, Deformation, Fracture Analysis, Heat Transfer, Mass Transfer, Mechanical Properties, Nanofluid, Nanomaterials, Numerical Modelling, Steel, Strength of Materials, Structural Integrity, Thermodynamics

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**Defect and Diffusion Forum Vol. 421**

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**Journal Volume**

**Topics:** Materials Science, Nanoscience

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**Conference Proceedings**

**Topics:** Bioscience and Medicine, Manufacturing, Materials Science

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**Selected peer-reviewed full text papers from the 3rd International Conference on Advances in Materials, Mechanical and Manufacturing (AMMM 2021), September 24-26, 2021, China (virtual) and 10th International Conference on Engineering and Innovative Materials virtual conference (ICEIM 2021), September, 24-26, 2021, Japan (virtual)**

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**Conference Proceedings**

**Topics:** Building Materials, Manufacturing, Materials Science, Nanoscience

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**Engineering Innovations Vol. 2**

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**Journal Volume**

**Topics:** Construction, Industrial Engineering, Manufacturing, Materials Science, Mechanical Engineering, Mechanics

**Keywords:** Abrasive Removal System, Abrasive Waste, Abrasive-Water Jet Cutting, Bucket-Wheel Excavator, Comprehensive Failure, Construction Project, Corrosion Resistance, Cutting Tool, Damage Occurrence, Earned-Value Analysis, Fused Deposition Modelling, Large-Span Steel Structure, Mechanical Properties, Pin-Connected Joint, Probability Model, Reconditioning Technology, Service Life, Spindle Current, Tableting Machine, Tensometric Measurements, Truss-Column Connection

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**Journal Volume**

**Topics:** Electronics, Information Technologies, Manufacturing, Materials Science, Mechanical Engineering, Mechanics

**Keywords:** 5G Technology, Brine, Electrodialysis, Fluid Slip, Glass Fiber Reinforced Plastic, Heat Transfer, MOSFET Based Absorber, Numerical Analysis, Ohmic Heating, Porous Media, Reverse Osmosis, Rotary Friction Welding Machine, Shipbuilding, Slamming, Telecommunication, Viscoelastic Layer, Water Desalination

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**Special topic volume with invited peer-reviewed papers only**

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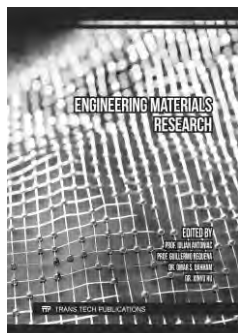
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**Topics:** Building Materials, Construction, Materials Science

**Keywords:** Brick, Ceramics, Coating, Concrete, Gallium Arsenide, Mechanical Properties, Polymer, Railway Embankment, Semiconductor

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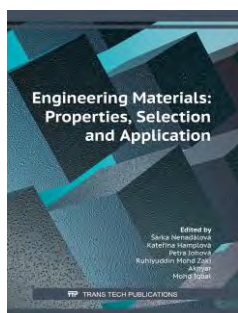
**Special Topic**

**Topics:** Building Materials, Materials Science

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**Selected peer-reviewed full text papers from the International e-Conference on Material Science and Nanotechnology (e-ICMSN 2020), December 17-19, 2020, Latur, India (virtual)**

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**Conference Proceedings**

**Topics:** Bioscience and Medicine, Electronics, Manufacturing, Materials Science, Nanoscience

**Keywords:** Annealing, Ceramics, Composite, Dielectric Properties, Ferroelectrics, Magnetic Properties, Mechanical Properties, Nanocomposite, Nanofluid, Nanomaterials, Nanoparticles, Nanotechnology, Photocatalytic Degradation, Polymer, Semiconductor, Sol Gel Synthesis, Thin Film

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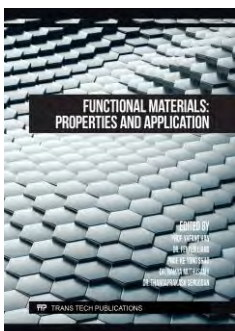
**Special Topic**

**Topics:** Materials Science, Nanoscience

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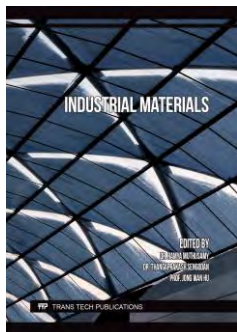
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Edited by: Assoc. Prof. Dr. Agus Geter Edy Sutjipto, Dr. Nurjannah Salim, Dr. Nurul Huda Abu Bakar and Dr. Siti Maznah Kabeb

**Conference Proceedings**

**Topics:** Bioscience and Medicine, Building Materials, Environmental Engineering, Manufacturing, Materials Science, Nanoscience

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**International Journal of Engineering Research in Africa Vol. 58**

Edited by: Prof. Akii Okonigbon Akaehomen Ibhadode

**Journal Volume**

**Topics:** Building Materials, Civil Engineering, Electronics, Environmental Engineering, Industrial Engineering, Information Technologies, Manufacturing, Materials Science, Mechanical Engineering, Mechanics

**Keywords:** Automated Decision Making System, Cement, Concrete, Convection, Corrosion, Evaporation, Fluid Flow, Gas Metal Arc Welding, Geochemistry, Granite, Groundwater, Heavy Metals, Inhibitor, Integrated Design, Irrigation, Irrigation Project, Life Cycle Analysis, Lignocellulosic Waste, Limestone, Mechanical Properties, Microgrid, Mineral Crystallization, Numerical Investigation, Parameter Optimisation, Power Control, Power Electronics, Pulp, Quality Time, *Raseta* Pump, Red Mud, Stabilization Pond, Steel, Steel Slag, System Architecture, Wastewater, Water Pumping System, Water Treatment

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**International Journal of Engineering Research in Africa Vol. 59**

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**Journal Volume**

**Topics:** Civil Engineering, General Engineering, Materials Science, Mechanical Engineering

**Keywords:** Biofiber, Building Materials, Composite, Concrete, Earth Block, Fluid Flow, Geotechnics, Mechanical Properties, Micro Grid, Numerical Modelling, Power Engineering, Reinforcement, Sheet Hydroforming, Smart Grid, Solar Air Heater, Surface Roughness, Wastewater Treatment

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**Journal Volume**

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**Keywords:** Agricultural Mechanization, Anaerobic Digestion, Battery, Biosorbent, Cadmium Ion, Cloud Computing, Crop Production, Design, Duplex Stainless Steel, Fluid Properties, Grid-Connected Photovoltaic, Harmonics, Heat Transfer, Hybrid Energy System, Image Processing, Insulated Gate Bipolar Transistor, Internet of Things, Inventory Management, Multi-Agent System, Municipal Solid Waste, Numerical Simulation, Pastoral Well, Power Converter, Power Quality, Productivity, Radiographic Image, Reactive Power, Sequestration, Solar Pumping, Threshing Machine, Welding Defect

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**Journal Volume**

**Topics:** Building Materials, Construction, Electronics, General Engineering, Industrial Engineering, Information Technologies, Manufacturing, Materials Science, Mechanical Engineering, Mechanics, Nanoscience

**Keywords:** Alloy, Aluminium, Biomass Gasification, Clay Brick, Composite, Composite Column, Corrosion Inhibitor, Electrolysis Cell, Energy Management, Friction Stir Welding, Geotechnics, Lateritic Soil, Mechanical Properties, Metal Matrix Composite, Metastable Phase, Microhardness, Micro-Strip Antenna, Microstructure, Nanocomposite, Natural Convection, Numerical Analysis, Polymer, Porous Media, Reliability, Smart Grid, Spark Plasma Sintering, Steel, Ultra-Wide Band, Wind Energy, Wind Turbine

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**International Journal of Engineering Research in Africa Vol. 62**

Edited by: Prof. Akii Okonigbon Akaehomen Ibadode

**Journal Volume**

**Topics:** Building Materials, Civil Engineering, Electronics, General Engineering, Industrial Engineering, Manufacturing, Materials Science, Mechanical Engineering, Mechanics

**Keywords:** Alloy, Buck Converter, Clay, Composite, Direct Current Motor, Friction Stir Welding, Glass Powder, Mechanical Properties, Mortar, Multimodal Damping Controller, Pavement, Reinforced Concrete, Service Level, Solar Thermal Concentrator, Spark Plasma Sintering, Structural Element, Thermal Performance, Trade Company, Transmission Line

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**Topics:** Building Materials, Civil Engineering, Manufacturing, Materials Science, Mechanical Engineering, Mechanics, Nanoscience

**Keywords:** Alloy, Blast Furnace Slag, Bronze, Composite, Concrete, Corrosion, Cutting, Inhibitor, Mechanical Properties, Nanomechanics, Nanotube, Polymer, Reinforced Concrete Beam, Sintering, Smelting, Steel

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**Journal of Biomimetics, Biomaterials and Biomedical Engineering Vol. 54**

Edited by: Dr. Sooraj Hussain Nandyala and Dr. David Duday

**Journal Volume**

**Topics:** Bioscience and Medicine

**Keywords:** Antibacterial Properties, Bioactivity, Biocompatibility, Blood Pressure, Catalyst, Deep Learning, Dental Implant, Hesperidin, Layered Composite, Medical Image, Nanoparticles, Phagocytosis, Phosphoric Silica, Recurrent Neural Networks, Stress Distribution

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**Journal of Biomimetics, Biomaterials and Biomedical Engineering Vol. 55**

Edited by: Assoc. Prof. Dr. Triwiyanto Triwiyanto

**Journal Volume**

**Topics:** Bioscience and Medicine, Electronics, Industrial Engineering, Information Technologies, Materials Science, Mechanics

**Keywords:** Biomaterials, Biomedical Image Processing, Biomedical Signal Processing, Deep Learning, Electrocardiography, Electromyography, Implant, Machine Learning, Microbiological Testing, Prosthesis, Rehabilitation, Telemedicine

Prices: Print: **US\$ 198.00/ EUR 198.00** Print: 978-3-0357-1558-3  
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**Journal of Biomimetics, Biomaterials and Biomedical Engineering Vol. 56**

Edited by: Dr. Sooraj Hussain Nandyala and Dr. David Duday

**Journal Volume**

**Topics:** Bioscience and Medicine, Materials Science, Mechanics, Nanoscience

**Keywords:** Antibacterial Activity, Biodegradable Polymer, Biomechanics, Cancer Treatment, Cardiorespiratory Parameters, Cellulosic Nanofilms, Cervical Spine Prosthesis, Dental Implant, Dentistry, Denture Base, Ergospirometry, Green Synthesis, Halocin Activity, Lung Cancer Biomarker, Nanomedicine, Silver Nanoparticle

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**Journal of Biomimetics, Biomaterials and Biomedical Engineering Vol. 57**

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**Journal Volume**

**Topics:** Bioscience and Medicine, Electronics, General Engineering, Materials Science, Mechanics

**Keywords:** Bioceramics, E-Textile, Lower Back Injury, Measurement, Polymer-Matrix Composite, Pressure Ulcer Prevention, Sports Textile, Textile, Thermal Comfort, Tribological Properties, Wound Dressing

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<https://www.scientific.net/978-3-0364-0090-7/book>



**Journal of Biomimetics, Biomaterials and Biomedical Engineering Vol. 58**

Edited by: Dr. Sooraj Hussain Nandyala and Dr. David Duday

**Journal Volume**

**Topics:** Bioscience and Medicine, Information Technologies, Materials Science, Mechanics

**Keywords:** Antibacterial Activity, Biomaterials, Biomechanics, Biomedical Image Processing, Composite, Denture, Drug Delivery, Hydrogel, Implant, Nanoparticles, Orthopedic Prostheses, Pharmaceuticals, Pharmacognosy, Titanium Alloy

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<https://www.scientific.net/978-3-0364-0113-3/book>



**Journal of Metastable and Nanocrystalline Materials Vol. 34**

Edited by: Dr. Konstantinos Georgarakis and Prof. Nadezhda L. Voropaeva

**Journal Volume**

**Topics:** Materials Science, Nanoscience

**Keywords:** Adsorption, Bainitic Steel, Brilliant Blue, Carbon Nanotube, Diamond Wire Saw, Magnetisation, Mechanical Properties, Microstructure, Nanobainite, Nanocomposite, Nanoparticle, Textile Wastewater, Thin Film

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 eBook Multi-User: **US\$ 96.00/ EUR 96.00** 80 pages, 2022

<https://www.scientific.net/978-3-0364-0023-5/book>



**Journal of Nano Research Vol. 71**

Edited by: Prof. Efstathios I. Meletis

**Journal Volume**

**Topics:** Materials Science, Nanoscience

**Keywords:** Conductive Elastomer, Electrochemical Properties, Electrodeposition, Multi-Walled Carbon Nanotube, Nanocomposite, Nanomaterials, Nanorod, Nanowire, Optoelectronics, Perovskite, Photocatalysis, Photoluminescence, Polymer, Reduce Graphene Oxide, Semiconductor, Synthesis, Zinc Oxide

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 170 pages, 2022

<https://www.scientific.net/978-3-0364-0030-3/book>



**Journal of Nano Research Vol. 72**

Edited by: Prof. Efstathios I. Meletis

**Journal Volume**

**Topics:** Materials Science, Nanoscience

**Keywords:** Density Functional Theory, Electrical Properties, Graphene Oxide, Green Synthesis, Ion Implantation, Nanochannel, Nanocomposite, Nanofiber, Nanomaterials, Nanoparticles, Nanosheet, Nanotransistor, Nanotube, Optical Properties, Photocatalysis, Reduce Graphene Oxide, Semiconductor, Thin Film, Titanium Dioxide

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 eBook: 978-3-0364-1031-9  
 146 pages, 2022

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**Journal of Nano Research Vol. 73**

Edited by: Prof. Efstathios I. Meletis

**Journal Volume**

**Topics:** Materials Science, Nanoscience

**Keywords:** Coating, Dye Degradation, Electrochemical Properties, Electrospinning, Metal Oxide, Nanocatalyst, Nanofiber, Nanofluid, Nanomaterials, Nanomechanics, Nanoparticle, Synthesis

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 eBook: 978-3-0364-1061-6  
 204 pages, 2022

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**Journal of Nano Research Vol. 74**

Edited by: Prof. Efstathios I. Meletis

**Journal Volume**

**Topics:** Nanoscience

**Keywords:** Aluminum Nitride, Electronic Properties, Graphene Oxide, Magnetite, MXene, Nanocomposite, Nanomotor, Nanoparticle, Nanowire Photodetector, Photocatalytic Reduction, Semiconductor, Single-Wall Carbon Nanotube, Wastewater Treatment, Zirconia

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 eBook: 978-3-0364-1109-5  
 162 pages, 2022

<https://www.scientific.net/978-3-0364-0109-6/book>



**Journal of Nano Research Vol. 75**

Edited by: Prof. Efstathios I. Meletis

**Journal Volume**

**Topics:** Bioscience and Medicine, Materials Science, Nanoscience

**Keywords:** Antibacterial Properties, Antioxidant Activity, Corrosion Protection, Green Synthesis, Nanocomposite, Nanofluid, Nanomaterials, Nanoparticle, Nanotube Array, Photocatalytic Properties, Titanium Dioxide, Wastewater Treatment

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 166 pages, 2022

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**Journal of Nano Research Vol. 76**

Edited by: Prof. Efstathios I. Meletis

**Journal Volume**

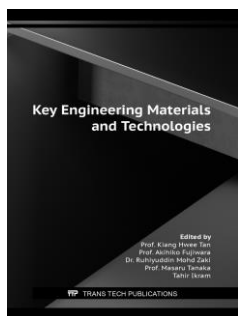
**Topics:** Bioscience and Medicine, Electronics, Materials Science, Nanoscience

**Keywords:** Antioxidant Properties, Biogenic Nanoparticles, Coating, Corrosion, Electrochemical Properties, Graphene Oxide, Green Synthesis, Magnetic Properties, Morphological Properties, Nanoparticles, Nanowires, Perovskite, Photocatalyst, Photovoltaics, Quantum Dots, Thin Films, Zinc Oxide

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 152 pages, 2022

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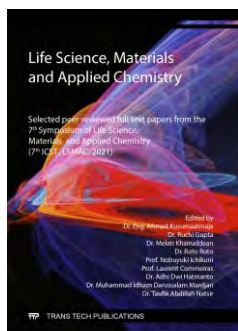
**Topics:** Bioscience and Medicine, Building Materials, Civil Engineering, Materials Science, Nanoscience

**Keywords:** Alloy, Building Materials, Catalytic Degradation, Corrosion, Corrosion Protection, Friction Stir Welding, Mechanical Properties, Nanoparticle, Polymer, Road Pavement, Shape Memory Alloy, Steel, Structural Element, Superalloy, Surface Grinding

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 234 pages, 2022

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**Life Science, Materials and Applied Chemistry**

**Selected peer-reviewed full text papers from the 7th Symposium of Life Science, Materials and Applied Chemistry (7th ICST\_LSMAC, 2021), September 07-08, 2021, Yogyakarta, Indonesia**

Edited by: Ahmad Kusumaatmaja, Dr. Ruchi Gupta, Dr. Melati Khairuddean, Dr. Roto Roto, Prof. Nobuyuki Ichikuni, Prof. Laurent Commeiras, Dr. Adhi Dwi Hatmanto, Dr. Muhammad Idham Darussalam Mardjan and Dr. Taufik Abdilllah Natsir

**Conference Proceedings**

**Topics:** Bioscience and Medicine, Materials Science, Nanoscience

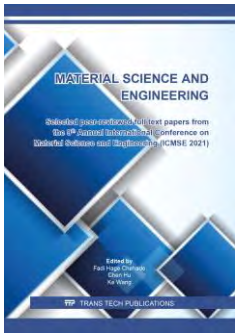
**Keywords:** Absorption, Agricultural Chemistry, Biosensor, Biotechnology, Computational Materials Science, Environmental Chemistry, Nanoparticle, Pharmaceutical Chemistry, Physical Chemistry

Prices: Print: **US\$ 72.00/ EUR 72.00**  
 eBook Single-User: **US\$ 77.00/ EUR 77.00**  
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 72 pages, 2022

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**Material Science and Engineering**

**Selected peer-reviewed full text papers from the 9th Annual International Conference on Material Science and Engineering (ICMSE 2021), July 23-25, 2021, Guiyang, China**

Edited by: Fadi Hage Chehade, Chen Hu and Ke Wang

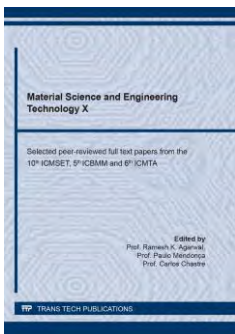
**Conference Proceedings**

**Topics:** Building Materials, Manufacturing, Materials Science

**Keywords:** Adsorption, Alloy, Biomaterials, Cathode Material, Coating, Composite, Concrete, Electronics, Hardness, Laser Lithography, Mechanical Properties, Microstructure, Nanocomposite, Nanoparticle, Optoelectronics, Polymer, Steel, Supercapacitor, Superplasticizer, Thermocouple, Thin Film, Waste Disposal, Wastewater, Welding

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**Material Science and Engineering Technology X**

**Selected peer-reviewed full text papers from the 10th ICMSET (October 14-17, 2021, Kyoto, Japan), 5th ICBMM (September 24-26, 2021, Barcelona, Spain) and 6th ICMTA (October 30 - November 02, 2021, Fukuoka, Japan)**

Edited by: Prof. Ramesh K. Agarwal, Prof. Paulo Mendonça and Prof. Carlos Chastre

**Conference Proceedings**

**Topics:** Bioscience and Medicine, Building Materials, Civil Engineering, Construction, Electronics, Environmental Engineering, Manufacturing, Materials Science, Mechanics, Nanoscience

**Keywords:** 3D Printing, Alloy, Biomaterials, Catalysis, Cement, Cladding, Composite, Computational Materials Science, Concrete, Conductive Polymer, Crack Propagation, Electrolyte, Esterification, Fly Ash, Functional Materials, Geopolymer Mixture, Mechanical Properties, Mortar, MOSFET, Nanocomposite, Nanomaterials, Photocatalytic Degradation, Polymer, Slag, Spark Plasma Sintering, Steel, Supercapacitor, Synthesis, Waste Recycling, Welding

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**Material Science and Engineering: Properties and Technologies III**

**Selected peer-reviewed full text papers from the 8th International Conference on Material Science and Engineering (ICMSE 2021), December 18-20, 2021, Wuhan, China**

Edited by: Dr. Xinyu Hu, Dibya Prakash Rai and Rocio Maceiras-Castro

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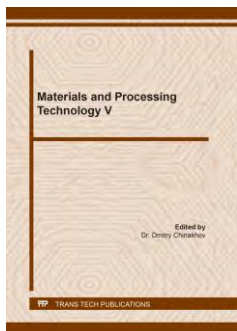
**Special Topic**

**Topics:** Building Materials, Civil Engineering, Industrial Engineering, Manufacturing, Materials Science, Mechanical Engineering, Mechanics

**Keywords:** Applied Mechanics, Capacity Planning, Cement, Compliant Parallel Mechanism, Concrete, Corrosion, Cutting, Delivery Drone, Design, Electric Vehicle, Fire-Resistance, Friction Welding, Heat Transfer, Power System, Production Capacity, Propulsion System, Solar Air Heater, Steel, Superalloy, Thermo-Physical Properties, Tool Damage, Warehouse Management System, Welded Zone

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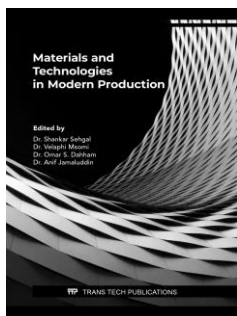
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**Selected peer-reviewed full text papers from the 4th International Conference on Materials Engineering and Science (IConMEAS 2021), October 06-07, 2021, Duhok, Iraq**

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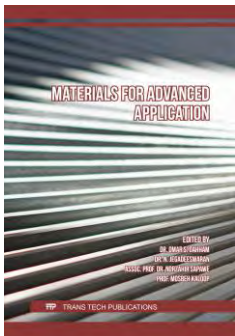
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**Topics:** Bioscience and Medicine, Building Materials, Civil Engineering, Construction, Electronics, Manufacturing, Materials Science, Mechanical Engineering, Mechanics, Nanoscience

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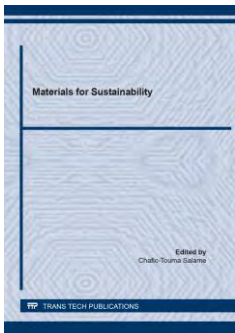
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**Topics:** Bioscience and Medicine, Materials Science, Nanoscience

**Keywords:** Alloy, Bioceramics, Biomaterials, Biotechnology, Coating, Composite, Environmental Protection, Implantation, Mechanical Properties, Micro-Arc Oxidation, Microstructure, Milling, Polymer, Pyrolysis, Sintering, Steel, Turning, Waste Recycling, Wastewater Treatment, Welding

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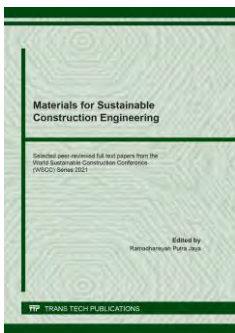
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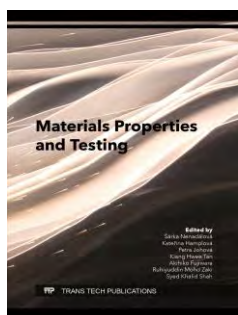
**Special Topic**

**Topics:** Building Materials, Materials Science, Nanoscience

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**Materials Science and Metallurgical Technology III**

**Selected peer-reviewed full text papers from the 4th International Russian Conference on Materials Science and Metallurgical Technology (RusMetalCon 2021), September 21-23, 2021, Chelyabinsk, Russian Federation**

Edited by: Prof. Andrey A. Radionov

**Conference Proceedings**

**Topics:** Environmental Engineering, Information Technologies, Manufacturing, Materials Science, Mechanics, Nanoscience

**Keywords:** Additive Manufacturing, Alloy, Cast Iron, Ceramics, Coating, Composite, Crystallization, Drawing, Electron Beam Cladding, Explosion Welding, Foundry Production, Granulometric Composition, Hardness, Industrial Waste, Laser Processing, Mechanical Properties, Metal Forming, Metallurgy, Metalworking, Microstructure, Pelletizing, Phase Composition, Plasma Processing, Recycling, Sintering, Steel, Superalloy, Surface Treatment, Water Purification, Welding

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**Selected peer-reviewed full text papers from the 5th International Conference on Sensors, Materials and Manufacturing (ICSMM 2021), November 19-21, 2021, and the 9th International Conference on Nanomaterials and Materials Engineering (ICNME 2021), December 20-22, 2021 (online)**

Edited by: Prof. Xiaohong Zhu

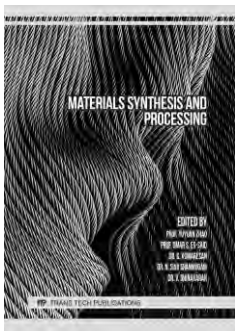
**Conference Proceedings**

**Topics:** Building Materials, Electronics, Materials Science, Nanoscience

**Keywords:** Additive Manufacture, Alloy, Building Materials, Coating, Composite, Electrodeposition, Friction Welding, Graphene, Mechanical Properties, Nanomaterials, Nanoparticles, Nanotechnology, Polymer, Powder Metallurgy, Semiconductor, Stamping, Steel, Thin Film

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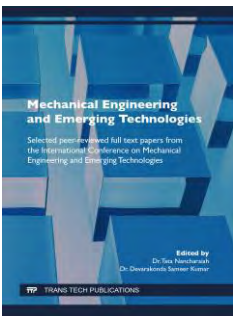
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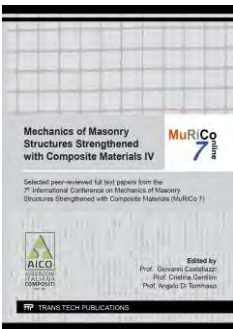
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Edited by: Prof. Nor Sabirin Mohamed and Prof. Jinyang Xu

**Conference Proceedings**

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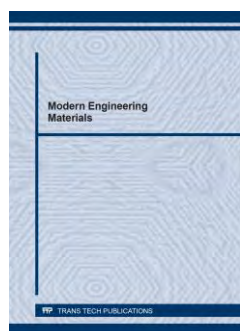
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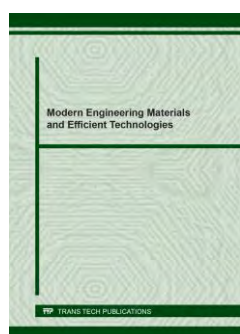
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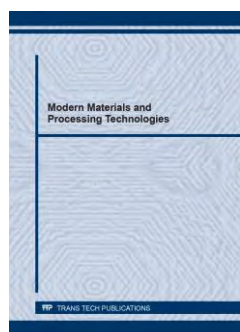
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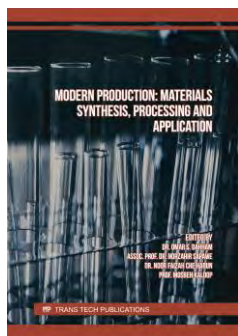
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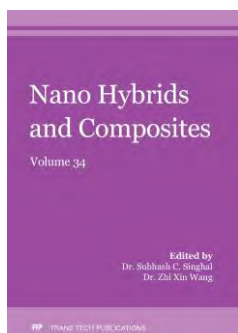
**Conference Proceedings**

**Topics:** Building Materials, Electronics, Manufacturing, Materials Science, Mechanics, Nanoscience

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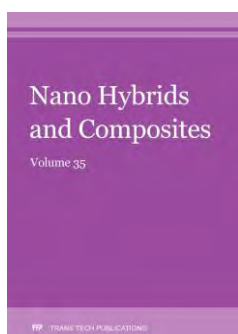
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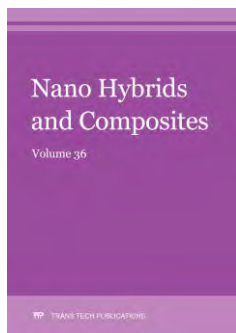
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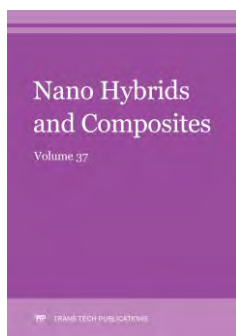
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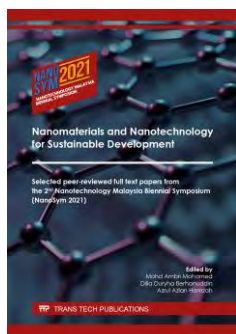
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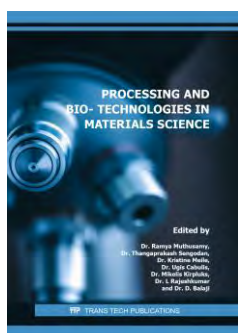
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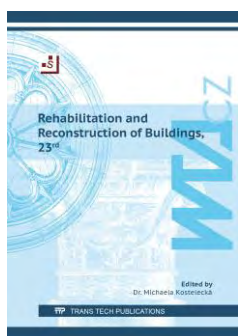
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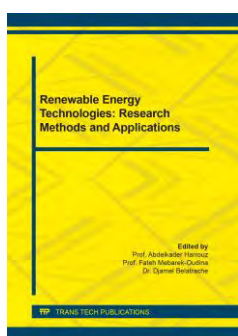
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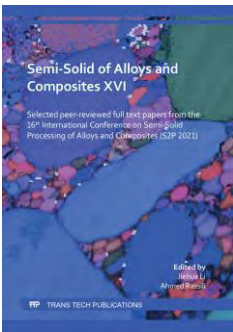
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**Topics:** Industrial Engineering, Manufacturing, Materials Science, Mechanical Engineering, Mechanics

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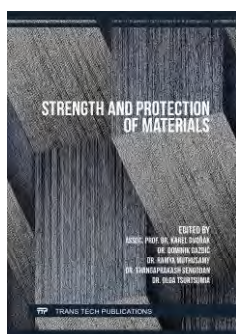
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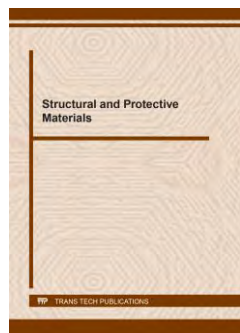
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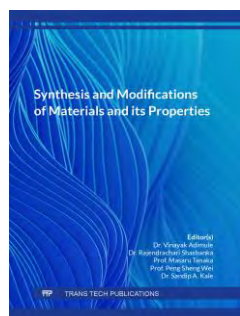
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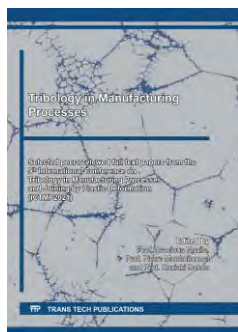
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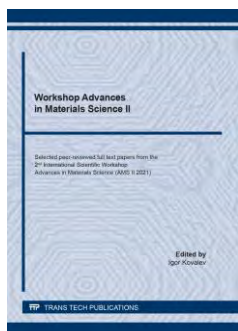
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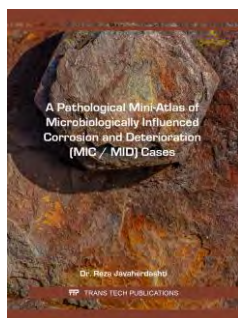
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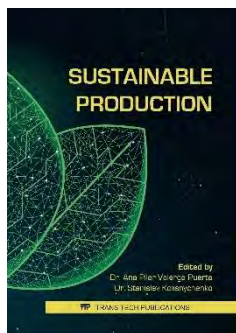
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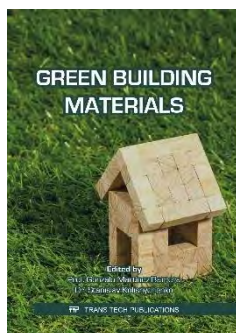
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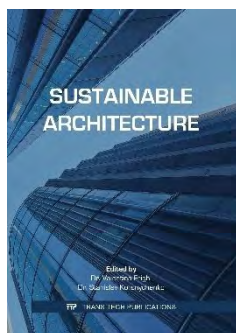
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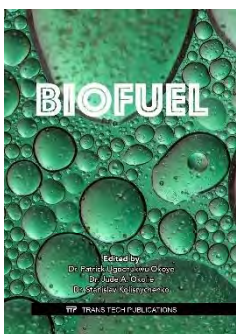
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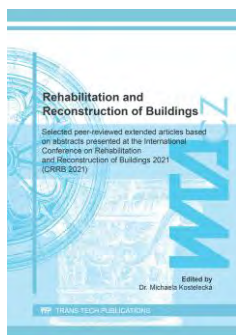
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**Rehabilitation and Reconstruction of Buildings**

Volume in the series: 32

**Aggregated Book**

Edited by: Dr. Michaela Kostecká

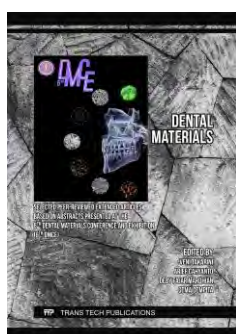
**Topics:** Building Materials, Civil Engineering, Construction, Materials Science

**Keywords:** Architectural Structure, Building Materials, Buildings, Concrete, Protection, Reconstruction, Rehabilitation, Reliability Assessment, Structures, Wood

**Prices:** Print: **US\$ 160.00/ EUR 160.00**  
 eBook Single-User: **US\$ 160.00/ EUR 160.00**  
 eBook Multi-User: **US\$ 280.00/ EUR 280.00**

Print: 978-3-0357-2754-8  
 eBook: 978-3-0357-2845-3  
 180 pages, 2022

<https://www.scientific.net/978-3-0357-2754-8/book>



**Dental Materials**

Volume in the series: 31

**Aggregated Book**

Edited by: Veni Takarini, Dr. Arief Cahyanto, Deby Fajar Mardhian and Gema Gempita

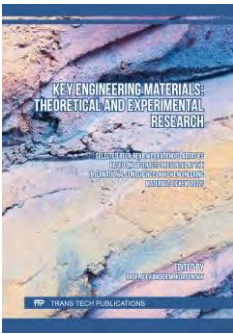
**Topics:** Bioscience and Medicine, Materials Science

**Keywords:** Antibacterial Activity, Bioceramics, Biomaterials, Composite, Cytotoxicity, Dental Cement, Dentistry, Hydroxyapatite, Mechanical Properties, Polymer, Restoration, Zirconia

**Prices:** Print: **US\$ 165.00/ EUR 165.00**  
 eBook Single-User: **US\$ 165.00/ EUR 165.00**  
 eBook Multi-User: **US\$ 289.00/ EUR 289.00**

Print: 978-3-0357-1898-0  
 eBook: 978-3-0357-2523-0  
 176 pages, 2022

<https://www.scientific.net/978-3-0357-1898-0/book>



**Key Engineering Materials: Theoretical and Experimental Research**

Volume in the series: 30

**Aggregated Book**

Edited by: Prof. Alexander M. Korsunsky

**Topics:** Bioscience and Medicine, Materials Science, Mechanical Engineering, Nanoscience

**Keywords:** Absorption, Alloy, Antioxidant, Biomedical Application, Chemical Technology, Composite, Computational Materials Science, Insulator, Mechanical Properties, Microstructure, Nanocomposite, Nanomaterial, Nanoparticle, Photodegradation, Polymer, Solar Cell

**Prices:** Print: **US\$ 185.00/ EUR 185.00** Print: 978-3-0357-1735-8  
 eBook Single-User: **US\$ 185.00/ EUR 185.00** eBook: 978-3-0357-2406-6  
 eBook Multi-User: **US\$ 324.00/ EUR 324.00** 206 pages, 2022

<https://www.scientific.net/978-3-0357-1735-8/book>



**Materials Science, Manufacturing and Civil Engineering**

Volume in the series: 29

**Aggregated Book**

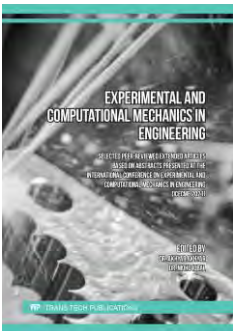
Edited by: Prof. Takashige Omatsu and Prof. Zongjin Li

**Topics:** Building Materials, Civil Engineering, Construction, Materials Science, Nanoscience

**Keywords:** Additive Manufacturing, Adsorption, Biocomposite, Composite, Concrete, Geopolymer, Green Building Materials, Mechanical Properties, Membrane, Microstructure, Mortar, Nanomaterials, Nanoparticles, Photodegradation, Polymer, Shape Memory Alloy, Steel, Structural Element, Wastewater Treatment

**Prices:** Print: **US\$ 160.00/ EUR 160.00** Print: 978-3-0364-0012-9  
 eBook Single-User: **US\$ 160.00/ EUR 160.00** eBook: 978-3-0364-1012-8  
 eBook Multi-User: **US\$ 280.00/ EUR 280.00** 192 pages, 2022

<https://www.scientific.net/978-3-0364-0012-9/book>



**Experimental and Computational Mechanics in Engineering**

Volume in the series: 28

**Aggregated Book**

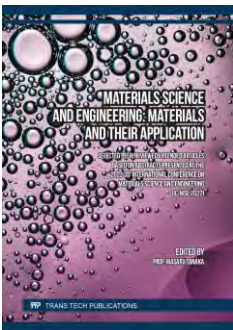
Edited by: Dr. Akhyar Akhyar and Dr. Mohd Iqbal

**Topics:** Building Materials, Materials Science

**Keywords:** Alloy, Cast Iron, Cement, Composite, Concrete, Corrosion, Drilling, Mechanical Properties, Metal, Metal Failure, Shot Peening, Steel, Welding

**Prices:** Print: **US\$ 110.00/ EUR 110.00** Print: 978-3-0357-1631-3  
 eBook Single-User: **US\$ 110.00/ EUR 110.00** eBook: 978-3-0357-3631-1  
 eBook Multi-User: **US\$ 193.00/ EUR 193.00** 128 pages, 2022

<https://www.scientific.net/978-3-0357-1631-3/book>



**Materials Science and Engineering: Materials and their Application**

Volume in the series: 27

Edited by: Prof. Masaru Tanaka

**Topics:** Bioscience and Medicine, Building Materials, Civil Engineering, Materials Science, Mechanical Engineering, Nanoscience

**Keywords:** Alloy, Asphalt, Biomaterials, Cement, Composite, Drug Delivery, Energy Harvesting, Molybdenum Disulfide, Nanocomposite, Nanogenerator, Nanoparticles, Pavement, Piezoelectrics, Porous Implant, Triboelectrics

**Prices:** Print: **US\$ 155.00/ EUR 155.00** Print: 978-3-0357-1886-7  
 eBook Single-User: **US\$ 155.00/ EUR 155.00** eBook: 978-3-0357-2794-4  
 eBook Multi-User: **US\$ 271.00/ EUR 271.00** 162 pages, 2022

<https://www.scientific.net/978-3-0357-1886-7/book>





**Recent Advancements in Biomedical Engineering**

Volume in the series: 26

**Aggregated Book**

Edited by: Dr. Ramji Kalidoss

**Topics:** Building Materials, Materials Science, Nanoscience

**Keywords:** Adsorbent, Biosensor, Composite, Concrete, Degradation, Drug Delivery, Food Packaging, Green Synthesis, Lubricant, Metal-Organic Framework, Nanocomposite, Nanomaterials, Nanoparticle, Nanotechnology, Photocatalyst, Polymer, Wastewater

Prices: Print: **US\$ 195.00/ EUR 195.00**  
 eBook Single-User: **US\$ 195.00/ EUR 195.00**  
 eBook Multi-User: **US\$ 341.00/ EUR 341.00**

Print: 978-3-0357-2702-9  
 eBook: 978-3-0357-3702-8  
 240 pages, 2022

<https://www.scientific.net/978-3-0357-2702-9/book>



**Advancement of Materials, Manufacturing and Devices**

Volume in the series: 25

**Aggregated Book**

Edited by: Dr. Ruhiyuddin Mohd Zaki, Dr. Khairul Rafezi Ahmad and Dr. Mohd Sobri Idris

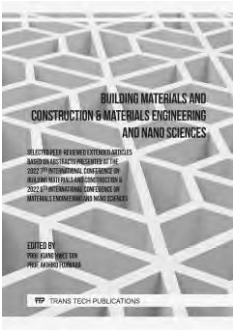
**Topics:** Building Materials, Electronics, Materials Science

**Keywords:** Alloy, Bio-Waste, Black Silicon, Cementitious Materials, Ceramic, Composite, Corrosion Protection, Electrical Properties, Electrolyte, Extraction, Glycerolysis, Mechanical Properties, Membrane Technology, Photovoltaic Materials, Polymer, Solar Cell, Superalloy, Thin Film

Prices: Print: **US\$ 190.00/ EUR 190.00**  
 eBook Single-User: **US\$ 190.00/ EUR 190.00**  
 eBook Multi-User: **US\$ 333.00/ EUR 333.00**

Print: 978-3-0357-1847-8  
 eBook: 978-3-0357-3790-5  
 252 pages, 2022

<https://www.scientific.net/978-3-0357-1847-8/book>



**Building Materials and Construction & Materials Engineering and Nano Sciences**

Volume in the series: 24

**Aggregated Book**

**Topics:** Building Materials, Materials Science, Nanoscience

**Keywords:** Alloy, Ash, Black Silicon, Blast Furnace Slag, Building Materials, Cementitious Material, Composite, Concrete, Corrosion Fatigue, Friction Stir Welding, Mechanical Properties, Nanocrystal, Nanomaterials, Nanoparticle, Photocatalyst, Polymer, Sintering, Steel, Thin Film

Prices: Print: **US\$ 155.00/ EUR 155.00**  
 eBook Single-User: **US\$ 155.00/ EUR 155.00**  
 eBook Multi-User: **US\$ 271.00/ EUR 271.00**

Print: 978-3-0364-0014-3  
 eBook: 978-3-0364-1014-2  
 210 pages, 2022

<https://www.scientific.net/978-3-0364-0014-3/book>



**Symposium on Advanced Materials**

Volume in the series: 23

**Aggregated Book**

Edited by: Dr. Amjad Ali, Dr. Syed Khalid Shah, Muhammad Saleem and Tahir Ikram

**Topics:** Bioscience and Medicine, Materials Science, Nanoscience

**Keywords:** Alloy, Biomaterials, Ceramics, Coating, Composite, Corrosion, Damage, Dielectric Properties, Electronic Properties, Failure, Fatigue, Inhibitor, Mechanical Properties, Membrane, Microstructure, Nanomaterials, Nanoparticle, Nanotube, Optical Properties, Photoluminescence, Photovoltaics, Polymer, Steel, Thin Film

Prices: Print: **US\$ 250.00/ EUR 250.00**  
 eBook Single-User: **US\$ 198.00/ EUR 198.00**  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00**

Print: 978-3-0357-1316-9  
 eBook: 978-3-0357-3316-7  
 378 pages, 2022

<https://www.scientific.net/978-3-0357-1316-9/book>



**Advances in Material Science**

Volume in the series: 22

**Aggregated Book**

Edited by: Dr. Sandip A. Kale, Dr. Kishor B. Kale and Dr. Sunday Olayinka Oyedepo

**Topics:** Bioscience and Medicine, Building Materials, Civil Engineering, Environmental Engineering, Information Technologies, Materials Science, Nanoscience

**Keywords:** Alloy, Antibacterial Properties, Biosorbent, Bitumen Blend, Ceramics, Cladding, Coating, Composite, Concrete, Corrosion, Electrodeposition, Functional Materials, Inhibitor, Mechanical Properties, Metal Matrix Composite, Nanoparticle, Nanotube, Polymer, Steel, Structural Element, Surface Treatment, Waste Recycling

Prices: Print: **US\$ 200.00/ EUR 200.00** Print: 978-3-0357-1545-3  
 eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-0357-3545-1  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 224 pages, 2022

<https://www.scientific.net/978-3-0357-1545-3/book>



**28th Concrete Days**

Volume in the series: 21

**Aggregated Book**

Edited by: Šárka Nenadálová, Kateřina Hamplová and Petra Johová

**Topics:** Building Materials, Civil Engineering, Materials Science, Mechanics

**Keywords:** 3D Modelling, Alkali, Bending, Cement, Chemical Resistance, Composites, Compressive Tests, Concrete, Construction, Degradation, Design, FEM Analysis, GFRP, Load-Bearing Capacity, Punching, Reinforcement, Shear Resistance, Strengthening, Structure, Sustainability, UHPC

Prices: Print: **US\$ 180.00/ EUR 180.00** Print: 978-3-0357-1725-9  
 eBook Single-User: **US\$ 180.00/ EUR 180.00** eBook: 978-3-0357-3725-7  
 eBook Multi-User: **US\$ 315.00/ EUR 315.00** 192 pages, 2022

<https://www.scientific.net/978-3-0357-1725-9/book>



**Advanced Materials and Application**

Volume in the series: 20

**Aggregated Book**

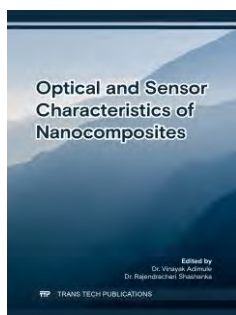
Edited by: Prof. Mosbeh Kaloop

**Topics:** Building Materials, Construction, Environmental Engineering, Materials Science

**Keywords:** Aluminum Alloy, Cast Iron, Casting, Concrete, Concrete Column, Copper Tannate, Mechanical Properties, Metal Matrix Composite, Photocatalytic Degradation, Thin Wire

Prices: Print: **US\$ 105.00/ EUR 105.00** Print: 978-3-0357-1671-9  
 eBook Single-User: **US\$ 105.00/ EUR 105.00** eBook: 978-3-0357-3671-7  
 eBook Multi-User: **US\$ 184.00/ EUR 184.00** 114 pages, 2022

<https://www.scientific.net/978-3-0357-1671-9/book>



**Optical and Sensor Characteristics of Nanocomposites**

Volume in the series: 19

**Aggregated Book**

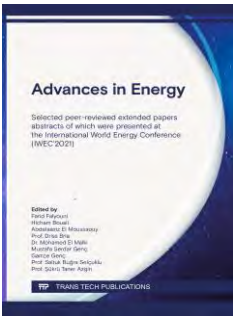
Edited by: Dr. Vinayak Adimule and Dr. Rajendrachari Shashanka

**Topics:** Bioscience and Medicine, Materials Science, Nanoscience

**Keywords:** Biosensor, Electrochemical Properties, Graphene, Graphene Oxide, Hybrid Metal-Oxide, Metal-Organic Frame Work, Microstructure, Nanocomposite, Nanoparticle, Optical Properties, Photocatalyst, Photodegradation, Sensory Properties, Synthesis

Prices: Print: **US\$ 210.00/ EUR 210.00** Print: 978-3-0364-0033-4  
 eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-0364-1033-3  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 208 pages, 2022

<https://www.scientific.net/978-3-0364-0033-4/book>



**Advances in Energy**

Volume in the series: 18

**Aggregated Book**

Edited by: Farid Falyouni, Hicham Bouali, Abdelaziz El Moussaouy, Prof. Driss Bria, Dr. Mohamed El Malki, Mustafa Serdar Genç, Gamze Genç, Prof. Saltuk Buğra Selçuklu and Prof. Şükrü Taner Azgin

**Topics:** Building Materials, Materials Science, Nanoscience

**Keywords:** Acoustics, Construction, Electron Transport, Electronic Properties, First-Principles Study, Optical Properties, Photonics, Quantum Dots, Semiconductor, Solid-State Physics

Prices: Print: **US\$ 200.00/ EUR 200.00** Print: 978-3-0357-1814-0  
 eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-0357-3783-7  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 168 pages, 2022

<https://www.scientific.net/978-3-0357-1814-0/book>



**Current Advances in Materials Applications**

Volume in the series: 17

**Aggregated Book**

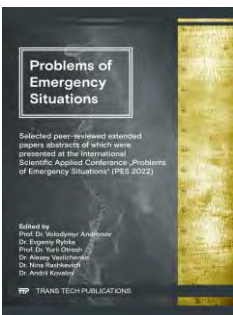
Edited by: Dr. Omar S. Dahham

**Topics:** Bioscience and Medicine, Building Materials, Materials Science, Nanoscience

**Keywords:** Alloy, Biomaterials, Building Materials, Composite, Laser Deposition, Mechanical Properties, Microstructure, Nanomaterials, Nanoparticle, Polymer, Steel

Prices: Print: **US\$ 210.00/ EUR 210.00** Print: 978-3-0364-0037-2  
 eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-0364-1037-1  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 252 pages, 2022

<https://www.scientific.net/978-3-0364-0037-2/book>



**Problems of Emergency Situations**

Volume in the series: 16

**Aggregated Book**

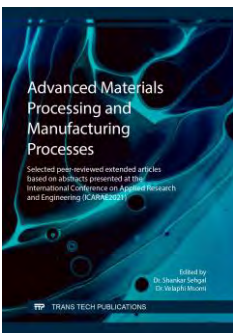
Edited by: Volodymyr Andronov, Dr. Evgeniy Rybka, Yurii Otrosh, Dr. Alexey Vasilchenko, Dr. Nina Rashkevich and Dr. Andrii Kovalov

**Topics:** Building Materials, Civil Engineering, Information Technologies, Manufacturing, Materials Science, Mechanical Engineering

**Keywords:** Alloy, Building Materials, Chemical Technology, Coating, Composite, Electrochemical Properties, Emergency Event, Environmental Engineering, Fault Tolerance, Fire Retardant Materials, Fire-Extinguishing Materials, Fire-Resistance, Gas Sorption, Information System, Mechanical Engineering, Mechanical Properties, Polymer, Steel

Prices: Print: **US\$ 310.00/ EUR 310.00** Print: 978-3-0357-1634-4  
 eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-0357-3634-2  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 466 pages, 2022

<https://www.scientific.net/978-3-0357-1634-4/book>



**Advanced Materials Processing and Manufacturing Processes**

Volume in the series: 15

**Aggregated Book**

Edited by: Dr. Shankar Sehgal and Dr. Velaphi Msomi

**Topics:** Materials Science, Nanoscience

**Keywords:** Alloy, Ceramics, Composite, Computational Material Science, Fluid Flow, Fuel Cell, Injection Molding, Materials Processing, Metal Matrix Composite, Micro Forming, Milling, Numerical Modelling, Polymer, Semiconductor, Tool Wear, Water Treatment

Prices: Print: **US\$ 290.00/ EUR 290.00** Print: 978-3-0357-1699-3  
 eBook Single-User: **US\$ 198.00/ EUR 198.00** eBook: 978-3-0357-2274-1  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00** 282 pages, 2022

<https://www.scientific.net/978-3-0357-1699-3/book>



**Advanced Materials and Engineering Materials**

Volume in the series: 14

**Aggregated Book**

Edited by: Prof. Peng Sheng Wei

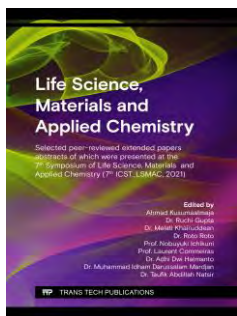
**Topics:** Materials Science, Mechanics

**Keywords:** 3D Printing, Alloy, Ceramics, Corrosion, Forming, Glass, Leaching, Lubricant, Mechanical Properties, Phosphate Pigment, Polishing, Polymer, Solid Mechanics, Steel, Stress Model, Tensile Properties, Welding

**Prices:** Print: **US\$ 190.00/ EUR 190.00**  
 eBook Single-User: **US\$ 190.00/ EUR 190.00**  
 eBook Multi-User: **US\$ 333.00/ EUR 333.00**

Print: 978-3-0357-2778-4  
 eBook: 978-3-0357-2885-9  
 222 pages, 2022

<https://www.scientific.net/978-3-0357-2778-4/book>



**Life Science, Materials and Applied Chemistry**

Volume in the series: 13

**Aggregated Book**

Edited by: Ahmad Kusumaatmaja, Dr. Ruchi Gupta, Dr. Melati Khairuddean, Dr. Roto Roto, Prof. Nobuyuki Ichikuni, Prof. Laurent Commeiras, Dr. Adhi Dwi Hatmanto, Dr. Muhammad Idham Darussalam Mardjan and Dr. Taufik Abdillah Natsir

**Topics:** Bioscience and Medicine, Materials Science, Nanoscience

**Keywords:** Absorption, Agricultural Chemistry, Biosensor, Biotechnology, Computational Materials Science, Environmental Chemistry, Nanoparticle, Pharmaceutical Chemistry, Physical Chemistry

**Prices:** Print: **US\$ 240.00/ EUR 210.00**  
 eBook Single-User: **US\$ 198.00/ EUR 198.00**  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00**

Print: 978-3-0357-1684-9  
 eBook: 978-3-0357-3684-7  
 304 pages, 2022

<https://www.scientific.net/978-3-0357-1684-9/book>



**Manufacturing Science and Technology**

Volume in the series: 12

**Aggregated Book**

Edited by: Prof. Steven Y. Liang

**Topics:** Building Materials, Materials Science, Nanoscience

**Keywords:** Additive Manufacturing, Alloy, Cement, Composite, Concrete, Gas Welding, Geopolymer, Injection Molding, Microstructure, Nanoparticle, Optical Properties, Photodegradation, Polymer, Silicon Carbide, Steel, Surface Treatment, Water Treatment

**Prices:** Print: **US\$ 218.00/ EUR 218.00**  
 eBook Single-User: **US\$ 198.00/ EUR 198.00**  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00**

Print: 978-3-0357-1754-9  
 eBook: 978-3-0357-3744-8  
 218 pages, 2022

<https://www.scientific.net/978-3-0357-1754-9/book>



**20th Autex World Textile Conference - Unfolding the Future**

Volume in the series: 11

**Aggregated Book**

Edited by: Fernando B.N. Ferreira, Ana Maria Rocha, Andrea Zille, António Dinis Marques and Raul Figueiro

**Topics:** Bioscience and Medicine, Construction, Electronics, Environmental Engineering, Industrial Engineering, Manufacturing, Materials Science, Mechanical Engineering

**Keywords:** Antimicrobial Property, Bio-Fabric, Coating, Composite, Conductive Fiber, Conductive Polymer, Dyeing, Electrospinning, Fabric, Fiber, Knitting, Mechanical Properties, Nanofibers, Plasma Treatment, Polymer, Reinforcing Fabric, Smart Textile, Spinning, Textile, Yarn

**Prices:** Print: **US\$ 572.00/ EUR 572.00**  
 eBook Single-User: **US\$ 198.00/ EUR 198.00**  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00**

Print: 978-3-0357-1774-7  
 eBook: 978-3-0357-2478-3  
 806 pages, 2022

<https://www.scientific.net/978-3-0357-1774-7/book>





**Sustainable Green Construction and Nano-Technology**

Volume in the series: 10

**Aggregated Book**

Edited by: Prof. Sayed Shebl, Prof. Magdy Helal and Dr. Hamada Shoukry

**Topics:** Building Materials, Construction, Materials Science, Nanoscience

**Keywords:** Building Materials, Cement, Concrete, Nanofluid, Nanomaterials, Nanoparticle, Polymer, Semiconductor, Wastewater Treatment

Prices: Print: **US\$ 236.00/ EUR 236.00**  
 eBook Single-User: **US\$ 198.00/ EUR 198.00**  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00**

Print: 978-3-0357-1781-5  
 eBook: 978-3-0357-3781-3  
 236 pages, 2022

<https://www.scientific.net/978-3-0357-1781-5/book>



**Composite Materials and Advanced Materials Research**

Volume in the series: 9

**Aggregated Book**

Edited by: Prof. Jong Hak Kim and Prof. Alan Lau

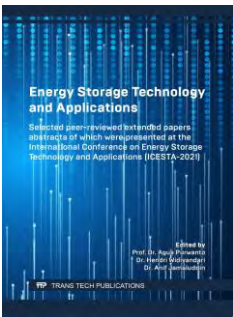
**Topics:** Bioscience and Medicine, Building Materials, Materials Science, Nanoscience

**Keywords:** Additive Manufacturing, Alloy, Biomedical Materials, Building Materials, Composite, Functional Materials, Materials Forming, Membrane, Nanoparticles, Polymer, Steel

Prices: Print: **US\$ 198.00/ EUR 198.00**  
 eBook Single-User: **US\$ 198.00/ EUR 198.00**  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00**

Print: 978-3-0357-1637-5  
 eBook: 978-3-0357-3637-3  
 198 pages, 2022

<https://www.scientific.net/978-3-0357-1637-5/book>



**Energy Storage Technology and Applications**

Volume in the series: 8

**Aggregated Book**

Edited by: Agus Purwanto, Dr. Hendri Widiyandari and Dr. Anif Jamaluddin

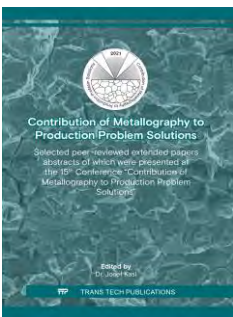
**Topics:** Materials Science, Nanoscience

**Keywords:** Anode, Cathode, Electrochemical Properties, Ferroelectrics, Fuel Cell, Li-Ion Battery, Polymer, Polymer Electrolyte, Proton Exchange Membrane, Separator, Sodium-Ion Battery

Prices: Print: **US\$ 188.00/ EUR 188.00**  
 eBook Single-User: **US\$ 198.00/ EUR 198.00**  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00**

Print: 978-3-0357-1706-8  
 eBook: 978-3-0357-2313-7  
 188 pages, 2022

<https://www.scientific.net/978-3-0357-1706-8/book>



**Contribution of Metallography to Production Problem Solutions**

Volume in the series: 7

**Aggregated Book**

Edited by: Dr. Josef Kasl

**Topics:** Materials Science

**Keywords:** Alloy, Creep Damage, Electron Microscopy, Failure Analysis, Fractography, Light Microscopy, Metallography, Microstructure, Processing Technology, Spectroscopy, Steel, Superalloy, X-Ray Diffraction

Prices: Print: **US\$ 206.00/ EUR 206.00**  
 eBook Single-User: **US\$ 198.00/ EUR 198.00**  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00**

Print: 978-3-0357-2694-7  
 eBook: 978-3-0357-3694-6  
 206 pages, 2022

<https://www.scientific.net/978-3-0357-2694-7/book>



**Spring International Conference on Material Sciences and Technology**

Volume in the series: 6

**Aggregated Book**

Edited by: Dr. Alokesh Pramanik

**Topics:** Materials Science

**Keywords:** Additive Manufacture, Alloy, Composite, Computational Materials Science, Injection Molding, Mechanical Properties, Melting, Microstructure, Polymer

**Prices:** Print: **US\$ 220.00/ EUR 220.00**  
 eBook Single-User: **US\$ 198.00/ EUR 198.00**  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00**

Print: 978-3-0357-2679-4  
 eBook: 978-3-0357-2608-4  
 224 pages, 2022

<https://www.scientific.net/978-3-0357-2679-4/book>



**Mechanical Engineering**

Volume in the series: 5

**Aggregated Book**

Edited by: Prof. Thanh Nam Nguyen

**Topics:** General Engineering, Industrial Engineering, Manufacturing, Materials Science, Mechanical Engineering, Mechanics

**Keywords:** 3D Printing, Engine, Engineering Management, Machining, Mass Transfer, Mechanical Engineering, Mechatronics, Polymer, Steel, Thermal Engineering, Tool

**Prices:** Print: **US\$ 198.00/ EUR 198.00**  
 eBook Single-User: **US\$ 198.00/ EUR 198.00**  
 eBook Multi-User: **US\$ 347.00/ EUR 347.00**

Print: 978-3-0357-1635-1  
 eBook: 978-3-0357-3635-9  
 208 pages, 2022

<https://www.scientific.net/978-3-0357-1635-1/book>



**Innovative Technologies for Joining Advanced Materials XII**

Volume in the series: 4

**Aggregated Book**

Edited by: Nicușor-Alin SÎRBU

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