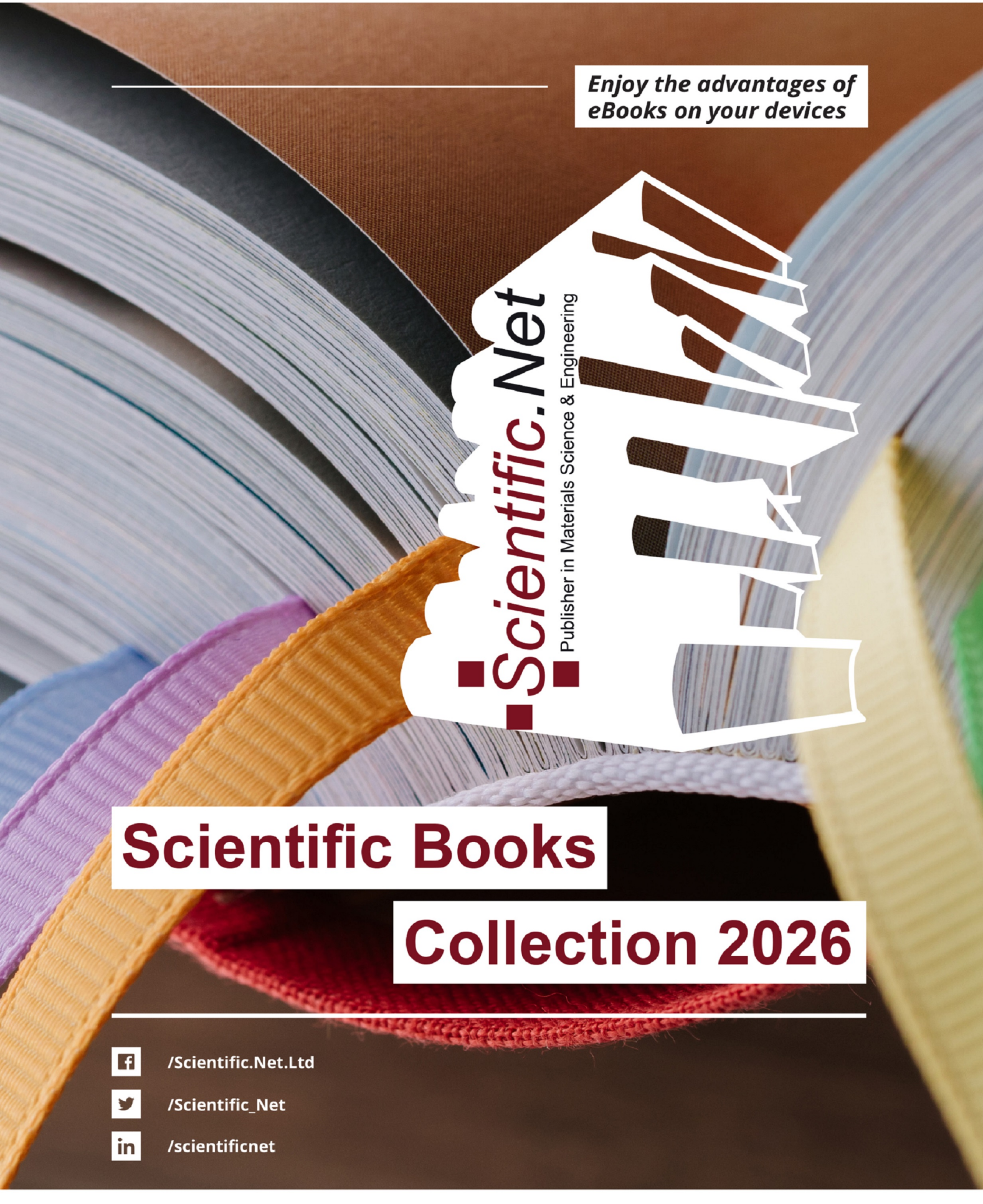

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Anne-Kristin Wohlbier,
CEO

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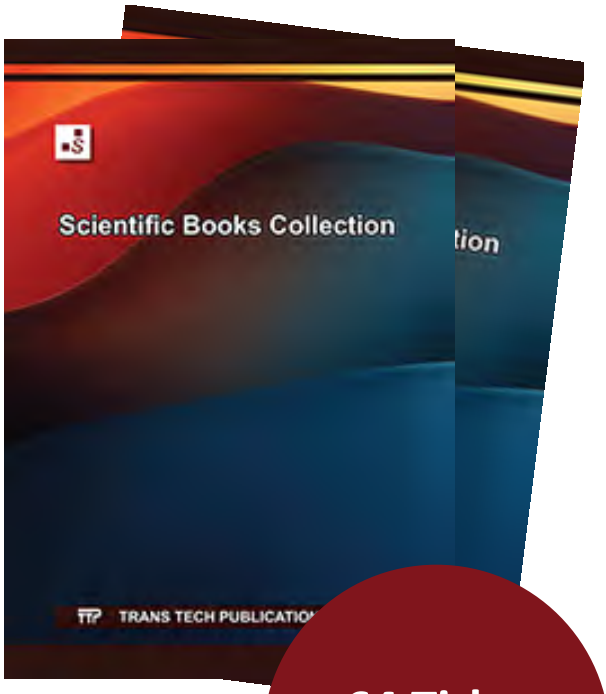

64 Titles (2025)

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The Scientific Books Collection is intended for the interest of practical engineers, scientific researchers, institutions and research groups, corporations' R&D and programs dedicated to materials science and engineering.

An actual list of the available book titles with short annotations and ToC can be found under "Books".

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The 8th International Conference on Frontiers of Composite Materials (ICFCM)

Volume in the series: 225

Aggregated Book

Edited by: Prof. Ramesh K. Agarwal

The book contains articles based on research results presented at the 8th International Conference on Frontiers of Composite Materials (ICFCM 2025), held at Tokyo University of Science, Tokyo, Japan, from June 9 to 11, 2025. This conference served as a premier forum for researchers, engineers, and scientists from around the globe to convene and exchange their latest findings and insights in the rapidly evolving field of composite materials.

Topics: Manufacturing, Materials Science, Mechanics, Nanoscience

Keywords: 3D Printing, Coating, Composite Materials, Concrete, Cracks, Failures, Fibres, Functional Materials, Hybrid Materials, Laminates, Metal Ceramics, Monocrystals, Nanomaterials, Package, Pipes, Polymers

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			https://www.scientific.net/978-3-0364-0852-1/book

International Scientific Applied Conference "Problems of Emergency Situations" (PES)

Volume in the series: 224

Aggregated Book

Edited by: Dr. Alexey Vasilchenko, Andrii Kondratiev, Evgeniy Rybka, Mykola Surianinov, Dr. Nina Rashkevich and Yurii Otrosh

The book includes articles based on research results presented at the International Scientific Applied Conference "Problems of Emergency Situations" (May 14, 2025, Kharkiv, Ukraine). The purpose of the conference was to discuss issues related to the problems and prospects of introducing the latest developments and technologies aimed at preventing emergencies or eliminating or mitigating their consequences.

Topics: Building Materials, Civil Engineering, Construction, Environmental Engineering, General Engineering, Manufacturing, Materials Science, Mechanics, Nanoscience

Keywords: Beams, Building Materials, Building Structures, Composites, Computational Research, Concrete, Electrical Conductivity, Emergency Prevention, Environmental Safety, Fillers, Fire-Extinguishing Materials, Fire-Resistant Materials, Functional Materials, Hazardous Situations, Heat-Insulating Coatings, Monitoring, Particle Behavior, Pollution, Polymers, Pyrotechnics, Sensors, Steel, Waste, Water Treatment

Prices:			
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	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*540 pages, 2025*
			https://www.scientific.net/978-3-0364-0351-9/book

The 15th International Conference "Innovative Technologies for Joining Advanced Materials" (TIMA)

Volume in the series: 223

Aggregated Book

Edited by: Dr. Nicuşor-Alin Sîrbu

This publication comprises the selected papers presented at the 15th International Conference “Innovative Technology for Joining Advanced Materials” (TIMA 24), held in Timisoara, Romania, in a hybrid manner, with face-to-face sessions at the Faculty of Mechanical Engineering from Politehnica University Timişoara and online, on November 7-8, 2024. The conference aimed to provide a platform for beneficial interaction on actual problems in the field of advanced materials joining and testing procedures. Particular attention was given to practical issues coming from industrial manufacturing.

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

Keywords: Additive Manufacturing, Alloy, Building Materials, Chemical Analysis, Coating, Composite, Corrosion, Friction Stir Processing, Heat Treatment, Laser Engraving, Laser Welding, Mechanical Properties, Optical Emission Spectroscopy, Polymer, Steel, Strength of Materials, Surface Treatment, Tool, Tribology, Turning, Ultrasonic Welding, Welded Structure, Welding, X-Ray Analysis

Prices:			
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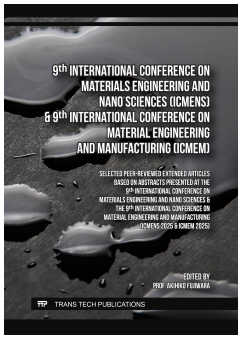
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*606 pages, 2025*
			https://www.scientific.net/978-3-0364-0449-3/book



9th Intern. Conf. on Materials Engineering and Nano Sciences (ICMENS) & 9th Intern. Conf. on Material Engineering and Manufacturing (ICMEM)

Volume in the series: 222

Aggregated Book

Edited by: Prof. Akihiko Fujiwara

This book compiles the collective expertise and forward-thinking research results which were presented at two distinguished gatherings: the 9th International Conference on Materials Engineering and Nanoscience (ICMENS 2025) and the 9th International Conference on Materials Engineering and Manufacturing (ICMEM 2025). Held jointly in Kyushu University, Fukuoka, Japan, from March 21 to 24, 2025, these conferences brought together leading researchers, engineers, industry professionals, and students from around the world to explore the latest advancements in materials science, nanotechnology, and manufacturing technologies.

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

Keywords: Alloy, Aramid, Asphalt Pavement, Bamboo, Bioactive Glass, Biomaterials, Die Casting, Electrochemical Adsorption, Green Building Materials, High Speed Twin Roll Caster, Mechanical Properties, Nanofibers, Planar MOSFET, Steel Furnace Slag

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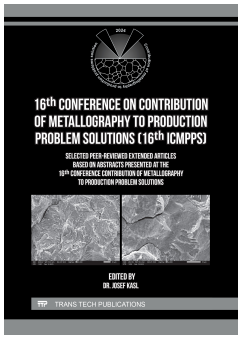

16th Conference on Contribution of Metallography to Production Problem Solutions (16th ICMPPS)

Volume in the series: 221

Aggregated Book

Edited by: Dr. Josef Kasl

This book contains selected contributions presented at the 16th international conference “Contribution of Metallography to Production Problem Solutions” (16th ICMPPS) held on 4 – 6 September 2024 in Marianské Lázně, Czech Republic. The conference focused on the application of metallography in industrial practice, specifically for solving production problems, elucidating premature failure of machine components and constructions during service, breakdowns, or accidents. In addition, some results of new research projects which could improve manufacturing technology or the quality of machine products are presented. Individual papers address the causes of failure, fracture mechanisms, insufficient material properties, and incorrect component function. This edition will be helpful for specialists in materials science, metallurgy and materials treatment technologies.

Topics: Manufacturing, Materials Science, Mechanics

Keywords: 3D-Printing, Additive Manufacturing, Alloys, Cladding, Coatings, Corrosion, Crack Analysis, Failure Analysis, Fittings, Materials Science, Metallography, Microstructure Replica, Pipelines, Radiation, Sample Preparation, Steel

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	eBook Multi-User:	**US$ 306.00/ EUR 306.00**	*148 pages, 2025*
			https://www.scientific.net/978-3-0364-0146-1/book

UNAM International Engineering Conference on Sustainable Emerging Innovations and Technological Advancements (UNAM-IEC)

Volume in the series: 220

Aggregated Book

Edited by: Prof. Chinwuba Arum, Prof. Md Azree Othuman Mydin, Prof. Innocent E. Davidson and Prof. Paul Kah

This book presents the transactions of the maiden edition of the University of Namibia (UNAM) International Engineering Conference on Sustainable Emerging Innovations and Technological Advancements, tagged "UNAM IEC-2024", which was held on 02 - 04 December 2024 at the Jose Eduardo Dos Santos (JEDS) Ongwediva Engineering Campus of the University of Namibia. The edition features results of cutting-edge research and technological advancements in sustainable engineering, with a focus on emerging innovations that address global challenges in energy, infrastructure, manufacturing, materials, and digital technologies. The book serves as a valuable resource for academics and engineers seeking to integrate sustainability into engineering and technological development.

Topics: Building Materials, Civil Engineering, Construction, Environmental Engineering, General Engineering, Industrial Engineering, Information Technologies, Manufacturing, Materials Science, Mechanical Engineering, Mechanics

Keywords: 3D Printing, Alloy, Building Materials, Deep Learning, Design, Dry Turning, Friction Stir Welding, HYDROLOGY, Mechanical Engineering, Mechanical Properties, Milling, Public Infrastructure, Renewable Energy, Smart Grid, Steel, Water Resource Management, Water Supply, Wind Resource, Wood Materials

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	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*374 pages, 2025*
			https://www.scientific.net/978-3-0364-0665-7/book

The 15th International Conference on Key Engineering Materials (ICKEM)

Volume in the series: 219

Aggregated Book

Edited by: Prof. Geoffrey R. Mitchell

The book includes articles based on the research results presented at the 2025 15th International Conference on Key Engineering Materials (ICKEM 2025, 11-13 March 2025, Portugal). The edition will be helpful for specialists in materials engineering.

Topics: Bioscience and Medicine, Building Materials, Construction, Information Technologies, Materials Science, Mechanics, Nanoscience

Keywords: Biomaterials, Biomethane, Carbon Dots, Composite, Concrete, Delamination, Electrocatalysis, Fatigue Crack, Fuel Cell, Geopolymeric Mortar, Hydrogel, Hydrogen Generation, Machine Learning, Mechanical Properties, Metal, Nanofluid, Photocatalysis, Solar Cells, Supercapacitor

Prices:			
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	eBook Multi-User:	**US$ 306.00/ EUR 306.00**	*166 pages, 2025*
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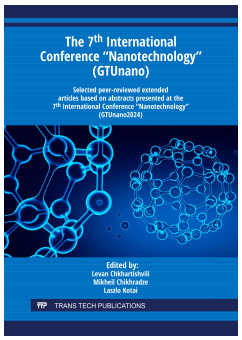

The 7th International Conference "Nanotechnology" (GTUnano)

Volume in the series: 218

Aggregated Book

Edited by: Levan Chkhartishvili, Dr. Mikheil Chikhradze and Laszlo Kotai

The book is a collection of selected papers presented at the 7th International Conference on "Nanotechnology", held from October 7 to 11, 2024, in Tbilisi, Georgia, and organised by the Georgian Technical University. The published conference papers focus on the development of production methods, the study of the structure and composition, as well as the physical and chemical properties of advanced materials, including functional nanomaterials.

Topics: Bioscience and Medicine, Building Materials, Electronics, General Engineering, Manufacturing, Materials Science, Nanoscience

Keywords: Alloy, Artificial Intelligence, Biomaterials, Biosynthetic Analysis, Composite, Green Concrete, Management, Mechanical Properties, Nanocomposite, Nanoparticle, Nanotoxity, Polymer, Semiconductor, Sensor, Steel, Thin Film

Prices:			
	Print:	**US$ 275.00/ EUR 275.00**	Print: 978-3-0364-0604-6
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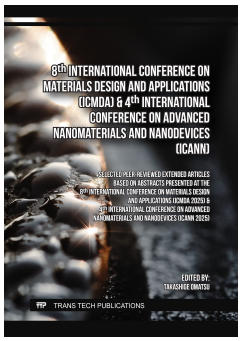
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*332 pages, 2025*
			https://www.scientific.net/978-3-0364-0604-6/book



8th Intern. Conference on Materials Design and Applications (ICMDA) & 4th Intern. Conference on Advanced Nanomaterials and Nanodevices (ICANN)

Volume in the series: 217

Aggregated Book

Edited by: Prof. Takashige Omatsu

This edition contains papers that were presented at the 8th International Conference on Materials Design and Applications (ICMDA 2025) and 4th International Conference on Advanced Nanomaterials and Nanodevices (ICANN 2025), which were held at Kyoto Advanced University of Science in Kyoto, Japan and devoted to latest findings, innovative ideas, and advancements in the field of materials science and engineering. The publication will be beneficial for many researchers and engineers in the fields of machinery, materials science, chemical production, and construction.

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

Keywords: Alloys, Biomass, Building Materials, Coatings, Computational Research, Concrete, Cracking, Functional Materials, Glasses, Membranes, Modeling, Nanomaterials, Polymers, Steel, Thin Films, Waste, Welding

Prices:			
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	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*204 pages, 2025*
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International and National Seminar on Materials and Metallurgical Engineering in Borneo (BKPMM-SENAMM XVI)

Volume in the series: 216

Aggregated Book

Edited by: Ade Wahyu Yusariarta, Kholiq Deliasgarin Radyantho, Faisal Manta, Gad Gunawan, Doddy Suanggana, Dr. Devy Setiorini Sa'adiyah, Dian Mart Shoodiqin, Atut Reni Septiana and Fadli Robiandi

The International and National Seminar on Materials and Metallurgical Engineering (BKPMM-SENAMM XVI 2023, Kota Balikpapan, Indonesia, 2023) was focused on advancing research and innovation in materials, metallurgy, chemical engineering, and construction with an emphasis on sustainable engineering practices and green technologies. The collected articles will be helpful for a wide range of engineers and researchers.

Topics: Building Materials, Civil Engineering, Construction, Manufacturing, Materials Science, Mechanics, Nanoscience

Keywords: Alloy, Biocomposite, Biopolymer, Composite, Concrete, Corrosion Resistance, Electrode Materials, Lithium-Ion Battery, Materials Processing Technology, Mechanical Properties, Oxid Graphene, Polymer, Steel, Steel Structure

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	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*260 pages, 2025*
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The 13th International Conference on Material Science and Engineering Technology (ICMSET)

Volume in the series: 215

Aggregated Book

Edited by: Prof. Ramesh K. Agarwal

The 13th International Conference on Materials Science and Engineering Technology (ICMSET 2024) was held in Nagoya, Japan, from November 22 to 24, 2024, and provided a global platform for experts and scholars in all related fields to communicate and explore frontier technologies.

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

Keywords: Additive Manufacturing, Alloys, Biomaterials, Building Materials, Carbon Quantum Dots (CQDs), Cement, Composites, Concrete, Electrodes, Energy Storage Devices, Failure Analysis, Fibers, Forming, Functional Nanomaterials, Heat Treatments, Kinetic Studies, Mechanical Engineering, Microstructure, Steel, Supercapacitors, Waste Treatment

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	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*244 pages, 2025*
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The 6th International Symposium on Infrastructure Development (6th ISID)

Volume in the series: 214

Aggregated Book

Edited by: Dr. Fakhruddin Fakhruddin, Dr. Muhammad Asad Abdurrahman and Rita Irmawaty

These selected articles were presented at the 6th International Symposium on Infrastructure Development 2023 (ISID 2023, 23 -24 August 2023), hosted by the Civil Engineering Department, Faculty of Engineering, Hasanuddin University, Indonesia. The topics of the presented research results related to the construction industry and environmental engineering, including also water resource management and assessment of technogenic risks and mitigation of natural disasters.

Topics: Building Materials, Civil Engineering, Construction, Environmental Engineering, Industrial Engineering, Materials Science, Mechanics

Keywords: Asphalt, Building Materials, Cement, Concrete, Dams, Disaster Mitigation, Earthquake Resistant, Fluid Flow, Fly Ash, Geotechnical Engineering, Groundwater, Hydrodynamics, Polymers, Reinforced Concrete Beams, Road Pavement, Safety, Seismic Design of Buildings, Slope Stability, Steel, Structural Behavior, Tunnels, Wastewater Treatment, Water Resources Management

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	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*392 pages, 2025*
			https://www.scientific.net/978-3-0364-0407-3/book

21st International Conference on Silicon Carbide and Related Materials (ICSCRM 2024)

Volume in the series: 213

Aggregated Book

Edited by: Prof. Victor Veliadis and Dr. Arash Salemi

Selected peer-reviewed extended articles based on abstracts presented at the 21 International Conference on Silicon Carbide and Related Materials (ICSCRM 2024).

Topics: Bioscience and Medicine, Construction

Keywords: Anneal, Applications, Basal Plane Dislocations, BJT, BPDs, Defect Characterization, Defects, Design, Device Physics, Diodes, Dislocations, Edge Termibnation, Epitaxy, Extended Defects, Gate Oxide, Graphite, Growth, Heated Implantation, High Voltage, Implantation, JBS, JFET, Material, Modules, MOS, MOSFET, Ohmic Contacts, Packaging, PiN, Planar MOSFET, Quantum Applications, Quantum Sensors, Reliability, Schottky Diode, SiC, Silicide, Silicon Carbide, Stacking Faults, Substrate, Superjunction, Threshold Voltage, Trench MOSFET, Wafers

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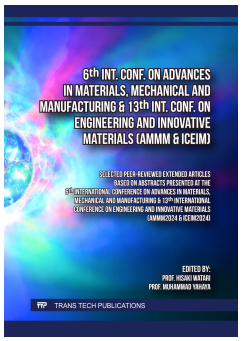

6th Int. Conf. on Advances in Materials, Mechanical and Manufacturing & 13th Int. Conf. on Engineering and Innovative Materials (AMMM & ICEIM)

Volume in the series: 212

Aggregated Book

Edited by: Prof. Hisaki Watari and Prof. Muhammad Yahaya

This edition comprises articles presented at the 6th International Conference on Advances in Materials, Mechanical and Manufacturing (AMMM 2024) and the 13th International Conference on Engineering and Innovative Materials (ICEIM 2024), which were held on September 6-8, 2024, in Tokyo, Japan. The book included articles representing the latest research results in materials science, materials processing technologies, and the development of methods and solutions for designing in mechanical engineering.

Topics: Building Materials, General Engineering, Manufacturing, Materials Science, Mechanical Engineering, Mechanics

Keywords: 3D Printing, Additive Manufacturing, Alloys, Carbon Quantum Dots (CQDs), Casting, Clay, Coatings, Composites, Computational Fluid Dynamics (CFD), Computational Mechanics, Cutting, Density Functional Theory (DFT), Engines, Finite Element Analysis (FEA), Functional Materials, Machines, Melting, Membranes, Microstructure, Natural Fibers, Polymers, Rolling , Soil Stabilization, Steel, Structural Metals

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	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*354 pages, 2025*
			https://www.scientific.net/978-3-0364-0141-6/book

The International Scientific Conference on Materials and Technologies for Defence and Security (MaTeDaS)

Volume in the series: 211

Aggregated Book

Edited by: Dr. Michal Krbat'a and Dr. Marcel Kohutiar

With a long tradition, the International Scientific Conference on Materials and Technologies for Defence and Security (MaTeDaS 2024, 9-10 October 2024, Trenčín, Slovakia) was focused on materials and technologies for producing special equipment. Thematically, it highlighted research results in engineering technologies of welding, casting, forming, machining, surface treatments, modern additive technologies, and new modelling and simulation approaches. From the point of view of materials, the research mainly focused on metal materials, ceramics, composites, polymer materials, which are important for the automotive industry, as well as multifunctional smart materials that can be used as actuators, sensors, vibration dampers, stabilisers of structural elements, etc. In these areas, the exchange of experience is one of the means of contributing to the development of the technical level and the quality of material equipment in the field of special technology. This edition will be helpful for many specialists in modern machinery and materials science.

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

Keywords: Additive Manufacturing, Alloy, Coating, Composite, Corrosion Resistance, Cutting, Design, Hydraulic Oil, Mechanical Engineering, Mechanical Properties, Mechatronics, Orbital Laser Welding, Plasma Nitriding, Polymer, Steel, Surface Treatment, Tribology

Prices:			
	Print:	**US$ 235.00/ EUR 235.00**	Print: 978-3-0364-0352-6
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	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*326 pages, 2025*
			https://www.scientific.net/978-3-0364-0352-6/book

The International Workshop on Positron Studies of Defects (PSD-24)

Volume in the series: 210

Aggregated Book

Edited by: Prof. Rafael Ferragut, Dr. Javier Schmidt and Prof. Bernardo Barbiellini

Following a standing tradition that began in 1987 in Germany, The International Workshop on Positron Studies of Defects (PSD-24) was held in the Sala Bianca of the Teatro Sociale di Como, Italy, from September 1 to 6, 2024.The workshop aimed to provide a platform for the exchange of the latest scientific results and developments concerning positron interactions with solids and surfaces, the applied techniques, and their diverse applications. An intensive two-day Summer School in honour of Alfredo Dupasquier was held at the Brunate Library on August 31st and September 1st, prior to the PSD-24. The School featured lectures delivered by leading international experts in Positron Annihilation Spectroscopy (PAS).

Topics: Materials Science, Nanoscience

Keywords: Coincidence Doppler Broadening Spectroscopy, Doppler Broadening Spectroscopy, First Principles Calculation, Interface Defects, Positron Annihilation Lifetime Spectroscopy (PALS), Positron Annihilation Spectroscopy, Positron Beam, Spin-Polarized Positrons, Surface Characterization, Vacancy Clusters, Vacancy Defects

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	Print:	**US$ 255.00/ EUR 255.00**	Print: 978-3-0364-0611-4
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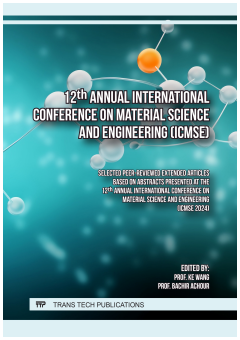


12th Annual International Conference on Material Science and Engineering (ICMSE)

Volume in the series: 209

Aggregated Book

Edited by: Prof. Ke Wang and Prof. Bachir Achour

The idea of the 12th Annual International Conference on Material Science and Engineering (ICMSE2024, Hangzhou, Zhejiang, China, July 26-28, 2024) was for the scientists, engineers and students all around the world to present ongoing results of research activities, and hence to foster technical sciences and relations between the researchers and the industry. The presented research results will be useful for people whose activity is related to materials science, mechanical engineering, construction, and the practical application techniques of big data processing and artificial intelligence.

Topics: Construction, Environmental Engineering, Industrial Engineering, Information Technologies, Manufacturing, Materials Science, Mechanical Engineering, Mechanics, Nanoscience

Keywords: Alloy, Artificial Intelligence, Big Data, Composite, Design, Durability, Environmental Engineering, Equipment, Graphene Oxide, Heavy Metals, Industrial Engineering, Machinery, Mechanical Properties, Polymer, Reliability, Steel, Structural Mechanics, Thin Films

Prices:			
	Print:	**US$ 215.00/ EUR 215.00**	Print: 978-3-0364-0004-4
	eBook Single-User:	**US$ 198.00/ EUR 198.00**	eBook: 978-3-0364-1004-3
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*222 pages, 2025*
			https://www.scientific.net/978-3-0364-0004-4/book

The 3rd International Conference on Magnetism and its Applications (ICMIA)

Volume in the series: 208

Aggregated Book

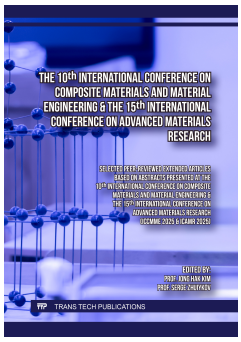
Edited by: Prof. Agustinus Agung Nugroho, Edi Suharyadi, Prof. Risdiana Risdiana and Prof. Budi Purnama

The book contains papers based on research results presented at the International Conference on Magnetism and Its Applications (ICMIA 2024, September 5-6, 2024, Yogyakarta, Indonesia) and will be of interest to many specialists in materials science.

Topics: Bioscience and Medicine, Materials Science, Nanoscience

Keywords: Antibacterial Properties, Ceramics, Density Functional Theory, Dielectric Properties, Drug Delivery, Electronic Properties, Ferrites, Ferromagnetic Materials, First-Principles Simulation, Graphene, Iron Sand, Magnetic Properties, Microwave Absorption, Nanocomposite, Nanocrystals, Nanoparticles, Photocatalyst, Photodegradation, Superconductivity, Wastewater Treatment

Prices:			
	Print:	**US$ 245.00/ EUR 245.00**	Print: 978-3-0364-0391-5
	eBook Single-User:	**US$ 198.00/ EUR 198.00**	eBook: 978-3-0364-1391-4
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*278 pages, 2025*
			https://www.scientific.net/978-3-0364-0391-5/book



The 10th International Conference on Composite Materials and Material Engineering & The 15th International Conference on Advanced Materials Research

Volume in the series: 207

Aggregated Book

Edited by: Prof. Jong Hak Kim and Prof. Serge Zhuiykov

This book contains articles based on research results that the authors presented at the 10th International Conference on Composite Materials and Material Engineering (ICCMME 2025) and the 15th International Conference on Advanced Materials Research (ICAMR 2025), which were held 8-10 January 2025 in Seoul, South Korea. The presented research results will be helpful for researchers and engineers in mechanical engineering, construction and chemical technologies.

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

Keywords: Additive Manufacturing, Alloy, Battery, Ceramics, Coating, Composite, Damping Ratio, Electrolytes, Fertilizer, Finite Element Modeling, Functional Materials, Graphene, Green Building Materials, Hydrometallurgy, Mechanical Properties, Metal Welding, Metamaterials, Nano Silica, Nanotubes, Phase Change Material, Photocatalytic Degradation, Polymer, Pyrolysis, Structural Mechanics, Surface Treatment

Prices:			
	Print:	**US$ 265.00/ EUR 265.00**	Print: 978-3-0364-0150-8
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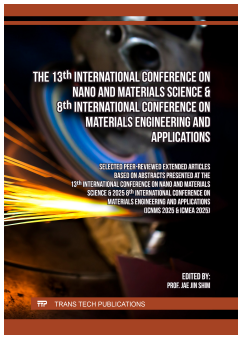
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*266 pages, 2025*
			https://www.scientific.net/978-3-0364-0150-8/book



The 13th International Conference on Nano and Materials Science & 8th International Conference on Materials Engineering and Applications

Volume in the series: 206

Aggregated Book

Edited by: Prof. Jae Jin Shim

This compilation of papers includes the proceedings from two distinguished conferences: the 13th International Conference on Nano and Materials Science (ICNMS 2025, Atlanta, GA, USA, from January 13 to 17, 2025) and the 8th International Conference on Materials Engineering and Applications (ICMEA 2025, Bangkok, Thailand, from January 15 to 18, 2025). The collected articles will be helpful for specialists in applied materials and technologies for many industrial branches.

Topics: Building Materials, Industrial Engineering, Manufacturing, Materials Science, Mechanics, Nanoscience

Keywords: Aluminum Alloy, Bifunctional Electrocatalyst, Cellulose, Electrochemical Performance, Electrode Materials, Friction Contact, Graphene, Green Building Materials, Industrial Engineering, Laser Surface Hardening, Material Nonlinearity, Mechanical Properties, Metalworking, Nanomaterials, Product Quality, Steel, Turning, Wire Arc Additive Manufacturing

Prices:			
	Print:	**US$ 165.00/ EUR 165.00**	Print: 978-3-0364-0579-7
	eBook Single-User:	**US$ 165.00/ EUR 165.00**	eBook: 978-3-0364-1579-6
	eBook Multi-User:	**US$ 289.00/ EUR 289.00**	*148 pages, 2025*
			https://www.scientific.net/978-3-0364-0579-7/book

The 3rd International Conference on Recent Advances in Materials and Manufacturing Technologies (IMMT)

Volume in the series: 205

Aggregated Book

Edited by: Dr. Gulshan Kumar and Dr. Harpreet Singh Bedi

The proceedings of the 3rd International Conference on Recent Advances in Materials and Manufacturing Technologies (IMMT 2023, 20-23 November 2023, Dubai, United Arab Emirates) present a compilation of research papers that showcase the most recent advancements in modern materials engineering and manufacturing technologies.

Topics: Bioscience and Medicine, Building Materials, Industrial Engineering, Materials Science, Mechanical Engineering, Mechanics, Nanoscience

Keywords: Additive Manufacturing, Alloys, Biodegradable Materials, Coatings, Composites, Computational Materials Science, Concrete, Cuttings, Dental Implants, Fatigue, Ferromagnetic, Finite Element Analysis (FEA), Forming, Fracture, Friction Stir Welding, Functional Materials, Glasses, Industrial Development, Laminates, Machine Learning, Materials for Biomedical Applications, Modeling, Nanofluids, Nanoparticles, Polymers, Processing Technologies, Steel, Structural Materials

Prices:			
	Print:	**US$ 265.00/ EUR 265.00**	Print: 978-3-0364-0354-0
	eBook Single-User:	**US$ 198.00/ EUR 198.00**	eBook: 978-3-0364-1354-9
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*282 pages, 2025*
			https://www.scientific.net/978-3-0364-0354-0/book

The 2nd International Conference on Applied Engineering, Science, Technology and Innovation (AESTI)

Volume in the series: 204

Aggregated Book

Edited by: Dr. Rizki Agam Syahputra and Joli Supardi

This book compiles the papers presented at the 2nd International Conference on Applied Engineering, Science, Technology and Innovation (AESTI 2024, 28 October 2024, Meulaboh - Aceh Barat, Indonesia). The collected articles explore innovative solutions and their practical applications in various industrial fields, including civil engineering, mechanical engineering, mechatronics, materials science, and industrial engineering. They will be useful for a wide range of specialists in many branches of modern engineering.

Topics: Building Materials, Civil Engineering, Construction, General Engineering, Industrial Engineering, Materials Science, Mechanical Engineering, Mechanics

Keywords: Aerodynamics, Building Materials, Corrosion Inhibitor, Drainage System, Failure Analysis, Industrial Engineering, Infrastructure, Irrigation Network, Materials, Mechanical Engineering, Mechatronics, Monitoring System, Renewable Energy, Rural Planning, Steel, Structural Engineering, Techno-Economic Analysis, Thermal Engineering, Transportation System, Urban Planning

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

Print: 978-3-0364-0694-7
eBook: 978-3-0364-1694-6
274 pages, 2025
https://www.scientific.net/978-3-0364-0694-7/book

The 5th International Conference on Experimental and Computational Mechanics in Engineering (ICECME)

Volume in the series: 203

Aggregated Book

Edited by: Dr. Syifaul Huzni, Dr. Mohd Iqbal, Akhyar Akhyar and Dr. Ikramullah Ikramullah

This book compiles the papers presented at the 5th International Conference on Experimental and Computational Mechanics in Engineering, themed “Advancing Computational & Experimental Mechanics for a Sustainable Future” (ICECME 2023, 9-10 November 2023, Banda Aceh, Indonesia). The collected articles explore innovative solutions and their practical applications in various engineering fields, including mechanical engineering, materials science, industrial engineering, etc.. They will be useful for a wide range of specialists in many branches of modern engineering.

Topics: Bioscience and Medicine, Building Materials, Industrial Engineering, Manufacturing, Materials Science, Mechanical Engineering, Mechanics

Keywords: 3D Printing, Air Flow, Alloys, ANSYS, Biodegradable Materials, Composites, Computational Research, Corrosion Protection, Cutting, Energy Conversion, Failure Analysis, Finite Element Method, Fluid Flow, Food Packaging, Friction, Heat and Mass Transfer, Implants, Logistics, Modelling, Plants Extract, Production Management, Quality Control, Reinforced Concrete, Resins, Solar Energy, Steel, Waste Treatment, Wear, Welding

Prices:		
	Print:	**US$ 230.00/ EUR 230.00**
	eBook Single-User:	**US$ 198.00/ EUR 198.00**
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**

Print: 978-3-0364-0526-1
eBook: 978-3-0364-1526-0
266 pages, 2025
https://www.scientific.net/978-3-0364-0526-1/book

The 10th International Scientific Conference on Advances in Mechanical Engineering (ISCAME)

Volume in the series: 202

Aggregated Book

Edited by: Mihály Csüllög and Dr. Tamás Mankovits

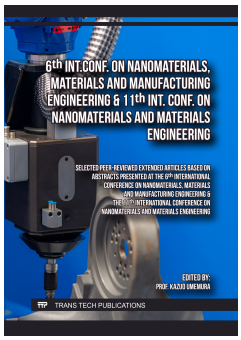
The 10th International Scientific Conference on Advances in Mechanical Engineering (ISCAME, November 7-9, 2024, Debrecen, Hungary) was organized by the Department of Mechanical Engineering (Faculty of Engineering, University of Debrecen), the Working Commission of Mechanical Engineering (Specialized Committee in Engineering, Regional Committee in Debrecen, Hungarian Academy of Sciences) and the Scientific Association for Mechanical Engineering. The ISCAME was part of the 10th Mechanical Engineering Days. The main goal of ISCAME is to bring together engineers, scientists, researchers, and practitioners from academia and industry to present their original works and share experiences regarding all aspects of mechanical engineering sciences.

Topics: Environmental Engineering, Industrial Engineering, Information Technologies, Manufacturing, Materials Science, Mechanical Engineering, Mechanics

Keywords: Additive Manufacturing, Alloy, Applied Mechanics, Artificial Intelligence, Automation, Bonding, Casting, Composite, Computational Mechanics, Design, Engineering Management, Environmental Management, Forming, Machine Learning, Measurement, Mechanical Engineering, Mechanical Properties, Mechanics of Material, Mechatronics, Pollutants, Polymer, Robotics, Steel, Testing, Tribology, Waste Management, Welding

Prices:		
	Print:	**US$ 320.00/ EUR 320.00**
	eBook Single-User:	**US$ 198.00/ EUR 198.00**
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**

Print: 978-3-0364-0610-7
eBook: 978-3-0364-1610-6
572 pages, 2025
https://www.scientific.net/978-3-0364-0610-7/book



6th Int.Conf. on Nanomaterials, Materials and Manufacturing Engineering & 11th Int. Conf. on Nanomaterials and Materials Engineering

Volume in the series: 201

Aggregated Book

Edited by: Prof. Kazuo Umemura

The book contains articles based on the research results that were presented at the 6th International Conference on Nanomaterials, Materials and Manufacturing Engineering (ICNMM 2024, 21-23 October 2024, Singapore) and the 11th International Conference on Nanomaterials and Materials Engineering (ICNME 2024, 11-14 December 2024, Bali, Indonesia). This edition will be helpful for researchers and engineers whose activity is related to materials, science, mechanical engineering, biomaterials applications and industrial engineering practice.

Topics: Bioscience and Medicine, Industrial Engineering, Manufacturing, Materials Science, Mechanical Engineering, Mechanics, Nanoscience

Keywords: Additive Manufacturing, Alloy, Biomaterials, Casting, Coating, Composite, Corrosion, Electrical Discharge Machining, Equal Channel Angular Pressing, Friction Stir Welding, Functional Materials, Industrial Engineering, Laser Processing, Mechanical Properties, Nanomaterials, Polymer, Steel

Prices:			
	Print:	**US$ 210.00/ EUR 210.00**	Print: 978-3-0364-0118-8
	eBook Single-User:	**US$ 198.00/ EUR 198.00**	eBook: 978-3-0364-1118-7
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*270 pages, 2025*
			https://www.scientific.net/978-3-0364-0118-8/book

6th Asia Conference on Material and Manufacturing Technology & 8th International Conference on Nanomaterials and Biomaterials

Volume in the series: 200

Aggregated Book

Edited by: Prof. Yong Suk Yang

The publication contains papers that were presented at the 6th Asia Conference on Material and Manufacturing Technology (ACMMT 2024) and the 8th International Conference on Nanomaterials and Biomaterials (ICNB 2024), which were held in Phuket, Thailand, from November 25 to 28, 2024, and will be helpful for researchers and engineers in materials, nanotechnologies and machinery.

Topics: Materials Science, Mechanical Engineering, Mechanics, Nanoscience

Keywords: Additive Manufacturing, Alloys, Colorimetric Detection, Drilling, Equipment, Friction Stir Welding, Heat Transfer, Laser Surface Texturing, Lasers, Magnetohydrodynamics (MHD), Manufacturing, Mass Transfer, Materials Processing, Milling, Nanofluids, Nanomaterials, Nanotubes, Non-Newtonian Fluids, Sensors, Steel, Ultrasonic Vibration Polishing, Wear Resistance, Wire Coating

Prices:			
	Print:	**US$ 150.00/ EUR 150.00**	Print: 978-3-0364-0517-9
	eBook Single-User:	**US$ 150.00/ EUR 150.00**	eBook: 978-3-0364-1517-8
	eBook Multi-User:	**US$ 263.00/ EUR 263.00**	*142 pages, 2025*
			https://www.scientific.net/978-3-0364-0517-9/book

The 5th International Congress on Advanced Materials Science and Engineering (5th AMSE)

Volume in the series: 199

Aggregated Book

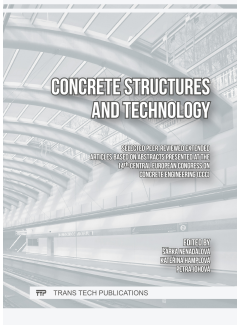
Edited by: Prof. Lee Zhi

The 5th International Congress on Advanced Materials Sciences and Engineering 2024 (AMSE-2024), held in the picturesque Lovran, Croatia from July 23-26, 2024, brought together a collection of selected papers that delve into the cutting-edge research and developments in the field of advanced materials, engineering and construction. This proceeding will serve as a valuable resource for academics, researchers, and professionals seeking to stay abreast of the latest advancements in materials, technologies and their practical implications for future engineering solutions.

Topics: Civil Engineering, Electronics, Materials Science, Mechanical Engineering, Nanoscience

Keywords: Applied Materials, Architecture, Biosorbents, Building Materials, Catalysis, Ceramics, Dielectrics, Energy Storage, Ferroelectrics, Glasses, Holographic Gratings, Nanocomposites, Nanomaterials, Natural Fiber Composites, Optical Devices, Photocatalytic Activity, Polymers, Rare-Earth Elements, Semiconductors, Solar Energy, Thin Films, Water Treatment

Prices:			
	Print:	**US$ 130.00/ EUR 130.00**	Print: 978-3-0364-0570-4
	eBook Single-User:	**US$ 130.00/ EUR 130.00**	eBook: 978-3-0364-1570-3
	eBook Multi-User:	**US$ 228.00/ EUR 228.00**	*164 pages, 2025*
			https://www.scientific.net/978-3-0364-0570-4/book



Concrete Structures and Technology

Volume in the series: 198

Aggregated Book

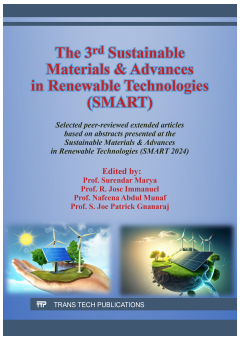
Edited by: Dr. Šárka Kalábová, Kateřina Hamplová and Petra Johová

This book presents papers from the 14th Central European Congress on Concrete Engineering (CCC), all of which focused on concrete structures and related fields, held by The Czech Concrete Society. The papers include a wide range of interesting topics covering the construction of concrete structures, modern concretes and technologies, and sustainability.

Topics: Building Materials, Civil Engineering, Construction, Industrial Engineering, Information Technologies, Materials Science, Mechanics

Keywords: Bridge, Building Information Modelling, Concrete, Concrete Structure, Concrete Technologies, Design, Digital Twin, Durability, Green Concrete, Health Monitoring, Mechanical Properties, Reinforcement, Reliability, Repair Works, Slab

Prices:			
	Print:	**US$ 215.00/ EUR 215.00**	Print: 978-3-0364-0548-3
	eBook Single-User:	**US$ 198.00/ EUR 198.00**	eBook: 978-3-0364-1548-2
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*238 pages, 2025*
			https://www.scientific.net/978-3-0364-0548-3/book



The 3rd Sustainable Materials & Advances in Renewable Technologies (SMART)

Volume in the series: 197

Aggregated Book

Edited by: Prof. Surendar K. Marya, Dr. R. Jose Immanuel, Dr. R. Nafeena Abdul Munaf and Dr. S. Joe Patrick Gnanaraj

The book contains selected original articles presented at the 3rd Sustainable Materials & Advances in Renewable Technologies 2024 (SMART'24, 2024, Tuticorin, India) conference. As the conference had an interdisciplinary theme, the papers are classified within chapters spanning domains from materials science and nanotechnologies to construction, alternative energy, mechatronics and mechanical engineering. The readers will get a holistic overview of research aimed at a sustainable future.

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

Keywords: Alloys, Alternative Energy Sources, Amino Acids, Biodiesel, Building Materials, Composites, Concrete, Electric Vehicles, Electronics, Functional Materials, Geopolymer, Glass Fibers, Green Synthesis, Mechatronics, Nanoparticles, Photonic Materials, Polymers, Sensors, Solar Energy, Waste Treatment, Wind Turbines

Prices:			
	Print:	**US$ 215.00/ EUR 215.00**	Print: 978-3-0364-0627-5
	eBook Single-User:	**US$ 198.00/ EUR 198.00**	eBook: 978-3-0364-1627-4
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*314 pages, 2025*
			https://www.scientific.net/978-3-0364-0627-5/book

International Conference on Research in Engineering and Science Technology (1st IC-REST 2023)

Volume in the series: 196

Aggregated Book

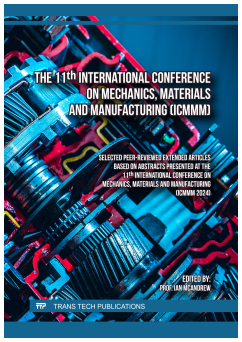
Edited by: Dr. Andi Amijoyo Mochtar, Dr. Zarah Arwieny Hanami and Dr. Muhammad Akbar Caronge

This book is composed of research papers presented at the 1st International Conference on Research in Engineering Science Technology (IC-REST), held on October 10th, 2023 at the Faculty of Engineering Campus, Universitas Hasanuddin, Gowa, Indonesia. The conference, an annual event hosted by the Faculty of Engineering, Universitas Hasanuddin, focused on the theme "Advanced Technologies to fulfil SDGs for Sustainable Life." The book showcases the latest research results and innovative decisions in the fields of materials engineering and technology, mechanical engineering and construction, and mineral resource and power engineering, highlighting their potential role in addressing global challenges and contributing to a sustainable future. The collection serves as a valuable resource for researchers, academics, and engineers from many branches of modern production.

Topics: Civil Engineering, Construction, General Engineering, Industrial Engineering, Materials Science, Mechanical Engineering, Mechanics

Keywords: Architecture, Biodiesel, Biomass Processing, Coastal Engineering, Composite, Construction Project, Design, Engineering Management, Hydrokinetic Turbine, HYDROLOGY, Mechanical Engineering, Mechanical Properties, Mineral Resources, Modelling, Nickel Mining, Powder metallurgy, Power Engineering, Two-Phase Fluid

Prices:			
	Print:	**US$ 225.00/ EUR 225.00**	Print: 978-3-0364-0425-7
	eBook Single-User:	**US$ 198.00/ EUR 198.00**	eBook: 978-3-0364-1425-6
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*264 pages, 2025*
			https://www.scientific.net/978-3-0364-0425-7/book



The 11th International Conference on Mechanics, Materials and Manufacturing (ICMMM)

Volume in the series: 195

Aggregated Book

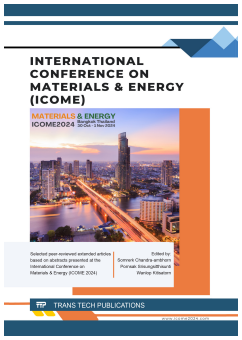
Edited by: Prof. Ian McAndrew

This edition presents articles selected from the 11th International Conference on Mechanics, Materials and Manufacturing (ICMMM 2024), successfully held in Warsaw, Poland, on 14-16 June 2024. The conference provided a platform for scholars, engineers, and researchers to present the latest research demonstrating the advances in the fields of materials and data processing.

Topics: Building Materials, Computers, Information Technologies, Materials Science

Keywords: Adaptive Learning, Cloud Computing, Composite, Corrosion, Data Mining, Delamination, Mechanical Properties, Meta-Analysis, Polymer, Viscoelastic Material

Prices:			
	Print:	**US$ 95.00/ EUR 95.00**	Print: 978-3-0364-0525-4
	eBook Single-User:	**US$ 95.00/ EUR 95.00**	eBook: 978-3-0364-1525-3
	eBook Multi-User:	**US$ 166.00/ EUR 166.00**	*86 pages, 2025*
			https://www.scientific.net/978-3-0364-0525-4/book



International Conference on Materials & Energy (ICOME)

Volume in the series: 194

Aggregated Book

Edited by: Prof. Somrerk Chandra-ambhorn, Pornsak Srisungsitthisunti and Dr. Wanlop Kitisatorn

This edition is a collection of the selected peer-reviewed papers presented at the International Conference on Materials & Energy (ICOME 2024), organised by the King Mongkut's University of Technology North Bangkok, Université de Lorraine, and Université Paris-Saclay, on October 30, 2024, to November 1, 2024. The ICOME 2024 was aimed to address the scientific needs of academic researchers, and industrial professionals in exploring new horizons of knowledge on various topics in materials science and engineering. The insights presented in this edition provide valuable knowledge and underlined perspectives for the next research and will be helpful to engineers and researchers involved in materials and engineering.

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

Keywords: Alloy, Bio-Based Materials, Coating, Composite, Corrosion, Electrochemical Analysis, Materials Processing Technology, Mechanical Properties, Phase Change Material, Polymer, Porous Material, Steel, Surface Damage, Thermal Insulation

Prices:			
	Print:	**US$ 155.00/ EUR 155.00**	Print: 978-3-0364-0224-6
	eBook Single-User:	**US$ 155.00/ EUR 155.00**	eBook: 978-3-0364-1224-5
	eBook Multi-User:	**US$ 271.00/ EUR 271.00**	*232 pages, 2025*
			https://www.scientific.net/978-3-0364-0224-6/book

13th Int. Conf. on Nanostructures, Nanomaterials and Nanoengineering & 9th Int. Conf. on Materials Technology and Applications Joint Conference (ICNNN & ICMTA)

Volume in the series: 193

Aggregated Book

Edited by: Prof. Kazuo Umemura

The unique idea behind 2024 The 13th International Conference on Nanostructures, Nanomaterials and Nanoengineering (ICNNN 2023) and 2024 The 9th International Conference on Materials Technology and Applications (November 6th to 8th, 2024, Osaka, Japan) was to provide an opportunity for leading academicians, scientists, researchers and industry professionals from around the world to network and have a scientific discussion on the latest advancements in the interlinked domains of materials science, technologies and engineering, to present their research works, promote scholarly exchanges, expound new ideas, and incubate academic collaborations on creating new innovative decisions.

Topics: Building Materials, Materials Science, Nanoscience

Keywords: 3D Printing, Alloys, Biobased Materials, Bioprinting, Bridges, Building Materials, Capacitors, Carbon Dots, Composites, Concrete, Epoxy, Faraday Rotation, Finite Element Method (FEM), Gas Detection, Geopolymer, Magneto-Optical Effect, Nanoemulsions, Nanomaterials, Perovskites, Pipelines, Resins, Steel, Structural Health Monitoring, Thin Films

Prices:			
	Print:	**US$ 155.00/ EUR 155.00**	Print: 978-3-0364-0319-9
	eBook Single-User:	**US$ 155.00/ EUR 155.00**	eBook: 978-3-0364-1319-8
	eBook Multi-User:	**US$ 271.00/ EUR 271.00**	*206 pages, 2025*
			https://www.scientific.net/978-3-0364-0319-9/book

The 9th International Conference on Solid State Science and Technology (ICSSST)

Volume in the series: 192

Aggregated Book

Edited by: Assoc. Prof. Dr. Fauziah Sulaiman and Jedol Dayou

The 9th International Conference on Solid State Science and Technology 2023 (ICSSST 2023) was jointly organized by the Universiti Malaysia Sabah (UMS) and the Malaysian Solid State Science and Technology Society (MASS). The conference successfully took place on 5-7 December 2023 in Kota Kinabalu, Sabah, Malaysia. The theme for this meeting was "Solid State Science and Technology for All and Beyond", which highlighted the role of materials science and technology in promoting human development and improving the quality of life for people around the world. This collection will be useful for a wide range of specialists in materials and related technologies.

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

Keywords: Biocement, Ceramics, Composite, Computational Materials Science, Electrical Properties, First Principles Study, Magnetic Recording, Mechanical Properties, Mechatronics, Metal Oxides, Nanocomposite, Nanogenerator, Optical Properties, Photocatalyst, Piezoelectric Properties, Polymer, Polymer Electrolytes, Semiconductor, Solar Cell, Supercapacitor, Superconductor

Prices:			
	Print:	**US$ 115.00/ EUR 115.00**	Print: 978-3-0364-0379-3
	eBook Single-User:	**US$ 115.00/ EUR 115.00**	eBook: 978-3-0364-1379-2
	eBook Multi-User:	**US$ 201.00/ EUR 201.00**	*126 pages, 2025*
			https://www.scientific.net/978-3-0364-0379-3/book

The 5th Borneo International Conference on Applied Mathematics and Engineering (BICAME)

Volume in the series: 191

Aggregated Book

Edited by: Bima Prihasto

The 5th Borneo International Conference on Applied Mathematics and Engineering - BICAME 2024, (18-19 September 2024, Balikpapan, Indonesia) was devoted to the theme of "Navigating Sustainable Futures: The Synergy Between Digitalization and Green Technology". This conference served as a platform for researchers, academicians, engineers, and practitioners to share innovative ideas and research findings in the fields of sustainable energy, green technology, and climate change. By facilitating the exchange of knowledge and fostering collaborations between academia and industry, the conference sought to address global sustainable needs and promote advancements in environmental practices.

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

Keywords: Activated Carbon, Biopolymer, Biotechnology, Coastal Engineering, Corrosion, Electrochemical Sensor, Electrochemistry, Electrode Materials, Environmental Geology, Heavy Metals Contamination, Mechanics of Structures, Organic Inhibitor, Pavement Mixture, Semiconductor, Soil Fertility, Steel

Prices:			
	Print:	**US$ 125.00/ EUR 125.00**	Print: 978-3-0364-0192-8
	eBook Single-User:	**US$ 125.00/ EUR 125.00**	eBook: 978-3-0364-1192-7
	eBook Multi-User:	**US$ 219.00/ EUR 219.00**	*162 pages, 2025*
			https://www.scientific.net/978-3-0364-0192-8/book

The 9th International Conference on Applied Engineering, Materials and Mechanics (ICAEMM)

Volume in the series: 190

Aggregated Book

Edited by: Prof. Jong Wan Hu

The 9th International Conference on Applied Engineering, Materials and Mechanics (ICAEMM 2024) took place in Incheon, South Korea on July 19-21, 2024. The primary objective of ICAEMM 2024 was to provide a world-class forum for the exchange of original ideas, new information, and the latest research in materials science and applied technologies. The presented edition will be helpful for academics, scientists, engineers, postgraduates and other professionals in the mentioned areas of engineering sciences.

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

Keywords: Concrete, Drainage Ability, Functional Materials, Green Roof, Green Storm Drain, Lithium Metal, Soil Stabilisation, Solid Electrolyte, Urban Drainage System, Vegetated Swales, Zinc Oxide

Prices:			
	Print:	**US$ 95.00/ EUR 95.00**	Print: 978-3-0364-0614-5
	eBook Single-User:	**US$ 95.00/ EUR 95.00**	eBook: 978-3-0364-1614-4
	eBook Multi-User:	**US$ 166.00/ EUR 166.00**	*66 pages, 2025*
			https://www.scientific.net/978-3-0364-0614-5/book

International Conference on Advanced Materials and Technology (ICAMT)

Volume in the series: 189

Aggregated Book

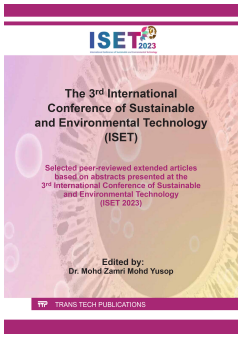
Edited by: Prof. Trung Hai Huynh, Duc Hoa Nguyen, Nguyen Thanh Liem, Anh Hoa Bui, Phan Thanh Thao, Van Quy Nguyen and Van Lich Lê

The book showcases a diverse array of research contributions presented at the International Conference on Advanced Materials and Technology held at Hanoi University of Science and Technology from October 09-12, 2024. This compilation covers a broad spectrum of topics, from electronic materials and devices, including advancements in micro- and nanotechnology, to cutting-edge developments in metal and alloy processing and 3D printing applications. Additional sections explore innovations in textile, apparel, and leather engineering with a focus on sustainability, as well as advancements in polymer materials and eco-friendly printing technologies. The published proceedings aim to foster interdisciplinary collaboration and highlight emerging solutions in materials science and engineering for sustainable industrial practices.

Topics: Bioscience and Medicine, Information Technologies, Manufacturing, Materials Science, Nanoscience

Keywords: Additive Manufacturing, Alloy, Antibacterial Properties, Apparel Production, Biomaterials, Drug Delivery, Electrospinning, Fabric, Functional Materials, High Entropy Alloy, Mechanical Properties, Polymer, Rubber, Spark Plasma Sintering, Steel, Textile, Waste Recycling, Yarn

Prices:			
	Print:	**US$ 195.00/ EUR 195.00**	Print: 978-3-0357-1897-3
	eBook Single-User:	**US$ 195.00/ EUR 195.00**	eBook: 978-3-0357-3897-1
	eBook Multi-User:	**US$ 341.00/ EUR 341.00**	*276 pages, 2025*
			https://www.scientific.net/978-3-0357-1897-3/book



The 3rd International Conference of Sustainable and Environmental Technology (ISET)

Volume in the series: 188

Aggregated Book

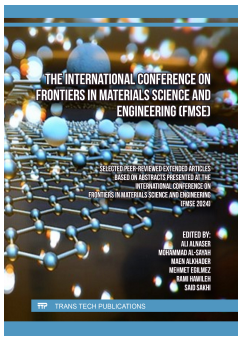
Edited by: Dr. Mohd Zamri Mohd Yusop

The 3rd International Conference of Sustainable and Environmental Technology 2023 and Regional Conference on Environmental Technology 2023 (26-27 September 2023, Malaysia) on the theme: "Innovative Solutions for a Sustainable Future" were aimed to reflect the latest research results of the cutting-edge technologies and methodologies for promoting sustainability in energy and environmental engineering. The conferences provided researchers and practitioners a platform to share knowledge and research results on renewable energy, climate change mitigation, and environmental conservation. The research focused on the development of innovative solutions to enhance energy efficiency, reduce carbon emissions, and promote circular economy practices. The events have encouraged interdisciplinary collaboration, integrating science and technology to address global sustainability challenges.

Topics: Materials Science, Nanoscience

Keywords: Biomass Processing, Bioremediation, Bleaching, Esterification, Filtration, Membrane, Membrane Technology, Nanocellulose, Nanoparticles, Polymer, Pyrolysis, Solid Acid Catalyst, Wastewater Treatment, Water Treatment

Prices:			
	Print:	**US$ 125.00/ EUR 125.00**	Print: 978-3-0364-0447-9
	eBook Single-User:	**US$ 125.00/ EUR 125.00**	eBook: 978-3-0364-1447-8
	eBook Multi-User:	**US$ 219.00/ EUR 219.00**	*160 pages, 2025*
			https://www.scientific.net/978-3-0364-0447-9/book



The International Conference on Frontiers in Materials Science and Engineering (FMSE)

Volume in the series: 187

Aggregated Book

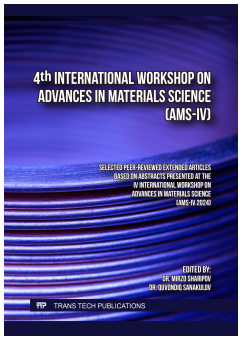
Edited by: Ali Alnaser, Mohammad Al-Sayah, Prof. Maen Alkhader, Prof. Mehmet Egilmez, Prof. Rami Hawileh and Prof. Said Sakhi

The International Conference on Frontiers in Materials Science and Engineering (FMSE 2024) was organised by the Materials Research Center and the College of Arts and Sciences at the American University of Sharjah (13-15 February 2024, Sharjah, United Arab Emirates). The three-day event brought together over two hundred fifty leading scientists and engineers from more than forty universities and companies worldwide. The conference aimed to promote regional and international collaboration among academics and key government and industry stakeholders.

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

Keywords: Aluminum, Asphalt, Beam, Building Materials, Composite, Concrete, Finite Element Analysis, Friction Stir Processing, Machine Designing, Mechanical Properties, Membrane, Mobilised Thermal Energy Storage System, Shear Strength, Structural Engineering, Thermoplastic Laminate, Thin Film

Prices:			
	Print:	**US$ 165.00/ EUR 165.00**	Print: 978-3-0364-0508-7
	eBook Single-User:	**US$ 165.00/ EUR 165.00**	eBook: 978-3-0364-1508-6
	eBook Multi-User:	**US$ 289.00/ EUR 289.00**	*202 pages, 2025*
			https://www.scientific.net/978-3-0364-0508-7/book



4th International Workshop on Advances in Materials Science (AMS-IV)

Volume in the series: 186

Aggregated Book

Edited by: Dr. Mirzo Sharipov and Dr. Quvondiq Sanakulov

The aim of the book based on the papers presented at the IV International Workshop Advances in Materials Science - AMS-IV 2024 (30-31 May 2024, Bukhara, Uzbekistan) was to encompass an examination of key themes in the latest materials science, integrating both theoretical frameworks and practical applications. The book highlights the mechanical properties of various materials, such as protective coatings and tool steels, emphasizing their behaviour under different processing techniques. It also explores advanced processing techniques, showcasing innovative manufacturing methods like direct metal deposition and CNC machining optimization. The application of nanotechnology is addressed, particularly regarding the influence of nanoparticles on wear resistance and mechanical properties. Furthermore, the integration of machine learning applications is discussed, focusing on how neural networks and deep learning can optimize material compositions and detect surface defects. Finally, the book investigates corrosion and wear resistance, tackling real-world challenges related to material durability in industrial settings. Overall, the edition aims to bridge the gap between theoretical research and industrial application, advancing knowledge in materials science.

Topics: Information Technologies, Materials Science, Mechanical Engineering, Mechanics

Keywords: Alloys, CNC Machining, Computer Simulations, Copper Concentrate, Crystallization, Deep Learning, Defect Detection, Direct Energy Deposition, Electric Arc Furnace, Industrial Manufacturing, Ion Scattering Spectroscopy, Machine Parts, Machine Vision, Machines, Materials Analysis, Nanopowders, Rare Metals, Slag, Steel, Structural Analysis, Thin Films, Tools, Wastes

Prices:			
	Print:	**US$ 100.00/ EUR 100.00**	Print: 978-3-0364-0243-7
	eBook Single-User:	**US$ 100.00/ EUR 100.00**	eBook: 978-3-0364-1243-6
	eBook Multi-User:	**US$ 175.00/ EUR 175.00**	*102 pages, 2025*
			https://www.scientific.net/978-3-0364-0243-7/book

The 5th Research, Invention, and Innovation Congress (RI2C)

Volume in the series: 185

Aggregated Book

Edited by: Prof. Somrerk Chandra-ambhorn, Dr. Kampanart Theinnoi and Dr. Wanlop Kitisatorn

This book is a collection of the selected peer-reviewed papers presented at the 2024 5th Research, Invention, and Innovation Congress (RI2C), organised by the Science and Technology Research Institute (STRI), King Mongkut's University of Technology North Bangkok, during August 8-9, 2024. The Congress was aimed at highlighting and sharing new knowledge as well as contributing to innovative sustainable development. The selected articles delve into various facets of materials science and technology and present the results of research dedicated to, amongst others, sustainable materials, materials for biomedical applications, functional materials, corrosion and oxidation processes as well as engineering and mechanics of materials and technologies in civil engineering and geotechnics. The research results presented in this edition will be helpful to engineers and researchers involved in materials, biomedical engineering, and eco-friendly building materials fields of science.

Topics: Bioscience and Medicine, Building Materials, Civil Engineering, Construction, Materials Science, Mechanics

Keywords: 3D Printing, Biodegradable Materials, Biodiesel, Biomaterials, Cement, Civil Engineering, Coatings, Composites, Dielectrics, Films, Functional Materials, Geotechnical Engineering, Gypsum, Industrial Waste, Monte Carlo Method, Plant Extracts, Polymers, Raw Materials, Sand, Soil Stabilization, Stone Columns, Water Treatment

Prices:			
	Print:	**US$ 195.00/ EUR 195.00**	Print: 978-3-0364-0608-4
	eBook Single-User:	**US$ 195.00/ EUR 195.00**	eBook: 978-3-0364-1608-3
	eBook Multi-User:	**US$ 341.00/ EUR 341.00**	*186 pages, 2025*
			https://www.scientific.net/978-3-0364-0608-4/book

The 2nd International Conference on Marine Research and Technology (ICOMAREST)

Volume in the series: 184

Aggregated Book

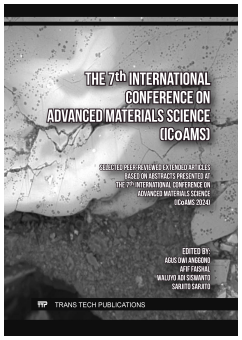
Edited by: Dr. Faisal Mahmuddin

This book contains articles presented at the 2nd International Conference on Marine Research and Technology - ICOMAREST 2023 (18-19 October 2023, Labuan Bajo, Indonesia) and focuses on the advances in solid mechanics and materials engineering that transform modern industries. The edition covers a wide range of topics, including structural mechanics, innovative materials, and polymer and mineral-based materials, emphasizing their roles in enhancing the materials' performance and reducing the environmental impact. The collection aims to provide additional resources for students, researchers, and professionals to inspire innovation in technological advancement and sustainability.

Topics: Building Materials, Construction, Materials Science, Mechanics

Keywords: Brass, Cement, Composite, Concrete, Corrosion, Green Building Materials, Mechanical Properties, Mineral Processing, Polymer, Steel, Strength of Materials, Stress Corrosion Cracking, Structural Mechanics

Prices:			
	Print:	**US$ 130.00/ EUR 130.00**	Print: 978-3-0364-0422-6
	eBook Single-User:	**US$ 130.00/ EUR 130.00**	eBook: 978-3-0364-1422-5
	eBook Multi-User:	**US$ 228.00/ EUR 228.00**	*168 pages, 2025*
			https://www.scientific.net/978-3-0364-0422-6/book



The 7th International Conference on Advanced Materials Science (ICoAMS)

Volume in the series: 183

Aggregated Book

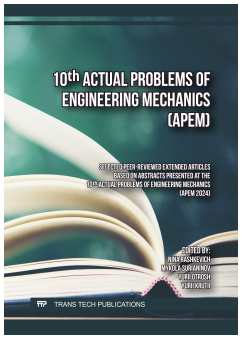
Edited by: Assoc. Prof. Dr. Agus Dwi Anggono, Afif Faishal, Waluyo Adi Siswanto and Sarjito Sarjito

The 7th International Conference on Advanced Materials Science (ICoAMS 2024), held on August 29-30, 2024, in Surakarta, Indonesia, brought together researchers and professionals to explore the latest advancements in materials science. The conference, conducted in a hybrid format with online sessions via Zoom, featured insightful discussions on innovations in materials synthesis and emerging nanotechnology applications. Emphasizing sustainability, the event showcased research on eco-friendly materials and their environmental impacts. A major highlight was the focus on cutting-edge technologies shaping the future of advanced materials. Researchers also presented significant breakthroughs in composite materials, highlighting their potential in various applications. The multifunctional properties of new material structures were explored, emphasizing their relevance across industries. Experts shared findings that pushed the boundaries of material design, bridging the gap between research and industrial applications. Overall, ICoAMS 2024 fostered collaboration, driving forward the development of sustainable and innovative materials for the future.

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

Keywords: Aluminum, Building Materials, Composite, Electrode Materials, Gray Iron, Hardness, Heat Treatment, Machine Design, Mechanical Properties, Microstructure, Nanoribbons, Quenching, Steel, Stir Casting, Structure, Tempering, Thermoelectric Generator

Prices:			
	Print:	**US$ 120.00/ EUR 120.00**	Print: 978-3-0364-0563-6
	eBook Single-User:	**US$ 120.00/ EUR 120.00**	eBook: 978-3-0364-1563-5
	eBook Multi-User:	**US$ 210.00/ EUR 210.00**	*134 pages, 2025*
			https://www.scientific.net/978-3-0364-0563-6/book



10th Actual Problems of Engineering Mechanics (APEM)

Volume in the series: 182

Aggregated Book

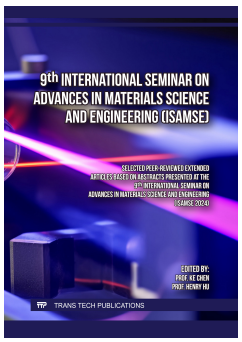
Edited by: Dr. Nina Rashkevich, Mykola Surianinov, Yurii Otrosh and Yurii Krutii

The annual International Conference "Actual Problems of Engineering Mechanics" (APEM 2024) was held online for the tenth time on June 5-7, 2024, Odesa, Ukraine. The conference was organized by the Odesa State Academy of Civil Engineering and Architecture (Ukraine, Odesa). Colleagues from the National University of Civil Defense of Ukraine, Slovak University of Technology (Slovakia), RWTH Aachen University (Germany), University of Sannio (Italy), Polytechnic University of Valencia (Spain) and Warsaw University of Technology (Poland) were involved as partners of the conference. The collected research results will be useful to many specialists in applied materials science, construction and civil defence.

Topics: Building Materials, Civil Engineering, Construction, Information Technologies, Materials Science, Mechanics

Keywords: 3D Models, 3D Printing, Alloys, BIM Technologies, Building Materials, Combined Arch System, Composites, Computational Mechanics, Concrete, Crack Resistance, Ferrites, Fibers, Fire Safety, Fly Ash, Fractal Formalism, Functional Materials, Legendre Polynomials, Load-Resistant Structures, Pipelines, Polymers, Radiation Safety, Raw Materials, Slag, Steel Cylindrical Silo, Tailing Dam, Waste Treatment, Wind Loads

Prices:			
	Print:	**US$ 235.00/ EUR 235.00**	Print: 978-3-0364-0524-7
	eBook Single-User:	**US$ 198.00/ EUR 198.00**	eBook: 978-3-0364-1524-6
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*298 pages, 2025*
			https://www.scientific.net/978-3-0364-0524-7/book



9th International Seminar on Advances in Materials Science and Engineering (ISAMSE)

Volume in the series: 181

Aggregated Book

Edited by: Prof. Ke Chen and Prof. Henry Hu

This book compiles 41 research papers that were presented at the 9th International Seminar on Advances in Materials Science and Engineering (ISAMSE 2024) held on July 12-14, 2024 in Kaifeng, Henan, China. A wide range of research results in modern materials science from structural metals, green chemistry, environmental engineering and building materials to functional materials, protective coatings, corrosion and materials for micro- and optoelectronics are reflected in this collection. This book is a valuable resource for engineers and researchers seeking to understand and improve material performance in various environments and applications.

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

Keywords: Alloy, Black Phosphorus, Catalysis, Cement, Ceramics, Coating, Composite, Concrete, Corrosion, Functional Materials, Geopolymer, Green Chemistry, Mechanical Properties, Membrane, Metal Processing Technologies, Microstructure, Nanomaterials, Pollutant Absorption, Polymer, Porous Materials, Quantum Dots, Steel, Surface Treatment

Prices:			
	Print:	**US$ 195.00/ EUR 195.00**	Print: 978-3-0364-0446-2
	eBook Single-User:	**US$ 195.00/ EUR 195.00**	eBook: 978-3-0364-1446-1
	eBook Multi-User:	**US$ 341.00/ EUR 341.00**	*320 pages, 2025*
			https://www.scientific.net/978-3-0364-0446-2/book

The 5th International Conference on Machining, Materials and Mechanical Technologies (IC3MT)

Volume in the series: 180

Aggregated Book

Edited by: Huy Bich Nguyen, Keiji Yamada, Ju Yi Lee and Assoc. Prof. Dr. Thanh Long Le

This edition includes the selected papers presented at the 5th International Conference on Machining, Materials, and Mechanical Technologies (IC3MT 2024), held in Phan Thiet City, Vietnam, on September 11-15, 2024. We hope this collection will be interesting and useful to many researchers and engineers from various fields of machining, materials, and mechanical technologies.

Topics: Manufacturing, Materials Science, Mechanical Engineering, Mechanics

Keywords: 3D Printing, Alloys, Automation, Computational Research, Cutting, Cutting Fluids, Defect Identification, Drilling, Fatigue Behavior, Finite Element Analysis, Machining, Mechanical Engineering, Mechatronics, Modeling, Neural Networks, Residual Stress, Steel, Tools, Wear Resistance

Prices:			
	Print:	**US$ 185.00/ EUR 185.00**	Print: 978-3-0364-0670-1
	eBook Single-User:	**US$ 185.00/ EUR 185.00**	eBook: 978-3-0364-1670-0
	eBook Multi-User:	**US$ 324.00/ EUR 324.00**	*208 pages, 2025*
			https://www.scientific.net/978-3-0364-0670-1/book

Tribology in Manufacturing Processes and Advanced Surface Engineering (10th ICTMP)

Volume in the series: 179

Aggregated Book

Edited by: Miguel Ángel Sellés Cantó and Samuel Sánchez-Caballero

We are pleased to present this collection of the selected contributions to the 10th International Conference on Tribology in Manufacturing Processes and Advanced Surface Engineering (ICTMP2024), held from June 26th to 28th, 2024, at the Campus of Alcoy of the Universitat Politècnica de València, Spain. The conference served as an international platform, fostering the exchange of innovative methodologies and practical applications in the field of tribology.

Topics: Manufacturing, Materials Science, Mechanics, Nanoscience

Keywords: 3D Printing, Additive Manufacturing, Alloys, Ball Burnishing, Cold Rolling, Composites, Corrosion Resistance, Cutting, Forming, Heat Treatment, Lubricants, Metal Processing, Nanoparticles, Optoelectronics, Polymers, Protective Coatings, Rolling Contact, Steel, Thin Films, Tools, Tribology, Wear Resistance

Prices:			
	Print:	**US$ 195.00/ EUR 195.00**	Print: 978-3-0364-0511-7
	eBook Single-User:	**US$ 195.00/ EUR 195.00**	eBook: 978-3-0364-1511-6
	eBook Multi-User:	**US$ 341.00/ EUR 341.00**	*274 pages, 2025*
			https://www.scientific.net/978-3-0364-0511-7/book

The 7th Powder Metallurgy and Additive Manufacturing of Titanium (PMTi 2024)

Volume in the series: 178

Aggregated Book

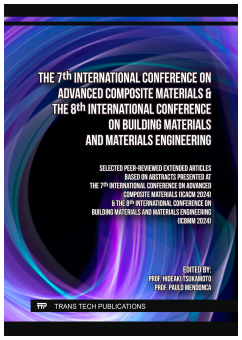
Edited by: Prof. Elena Gordo Odériz and Dr. Elisa Maria Ruiz-Navas

The 7th edition of the International Conference on Powder Metallurgy and Additive Manufacturing of Titanium, PMTi2024, was held in Madrid, Spain, for the first time after a successful series of previous conferences held in Australia, New Zealand, Germany, China, the United States and Canada. Having gathered researchers and professionals on the processing, design and application of titanium and its alloys fabricated by powder metallurgy and additive manufacturing technologies, it was a big success, providing a great insight into different topics. This publication is organised into six chapters comprising a selection of articles from the contributions that were presented during the conference.

Topics: Materials Science

Keywords: Additive Manufacturing, Alloy, Metal Injection Moulding, Powder metallurgy, Recycling, Titanium, Titanium Aluminides, Titanium Matrix Composites

Prices:			
	Print:	**US$ 195.00/ EUR 195.00**	Print: 978-3-0357-1603-0
	eBook Single-User:	**US$ 195.00/ EUR 195.00**	eBook: 978-3-0357-3313-6
	eBook Multi-User:	**US$ 341.00/ EUR 341.00**	*238 pages, 2025*
			https://www.scientific.net/978-3-0357-1603-0/book



The 7th International Conference on Advanced Composite Materials & The 8th International Conference on Building Materials and Materials Engineering

Volume in the series: 177

Aggregated Book

Edited by: Prof. Hideaki Tsukamoto and Prof. Paulo Mendonca

This publication introduces the readers to the selection of papers presented at the 7th International Conference on Advanced Composite Materials (ICACM 2024, Tokyo, Japan, August 21-24, 2024) and the 8th International Conference on Building Materials and Materials Engineering (ICBMM 2024, Madrid, Spain, September 10-12, 2024). ICACM 2024 once again brought together the brightest minds in the realm of advanced composites. These materials, with their exceptional properties and endless potential, are driving innovation across multiple industries. From aerospace to automotive, from energy to electronics, advanced composites are playing a crucial role in shaping the future. The articles presented at this conference offer insights into the latest research, development, and applications of these remarkable materials, highlighting the continuous efforts to enhance their performance, durability, and functionality. In its turn, ICBMM 2024 explored topics ranging from the development of new building materials to the optimization of construction processes, from energy-efficiency to smart building solutions. Construction materials are developing towards the pursuit of functional diversity, circular economy, reuse and recycling, which are essential for sustainable development. The articles from this conference provide valuable knowledge and practical solutions for addressing the challenges faced by the construction industry and promoting greener, more efficient building practices.

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

Keywords: 3D Printing, Ball Mill, Biochar, Building Materials, Composites, Concrete, Drilling, Eco-Friendly Materials, Equipment Parts, Functional Materials, Geopolymer, Mechanisms, Mechatronics, Metal Matrix Composites, Natural Fibers, Polymers, Regenerated Plastics, Robots, Seismic Design, Sensors, Silica Coating, Sliding Bearing, Thermal Energy Storage, Transistors, Waste Treatment, Water Treatment

Prices:			
	Print:	**US$ 285.00/ EUR 285.00**	Print: 978-3-0364-0523-0
	eBook Single-User:	**US$ 198.00/ EUR 198.00**	eBook: 978-3-0364-1523-9
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*252 pages, 2025*
			https://www.scientific.net/978-3-0364-0523-0/book

International Scientific Applied Conference "Problems of Emergency Situations" (PES 2024)

Volume in the series: 176

Aggregated Book

Edited by: Dr. Alexey Vasilchenko, Evgeniy Rybka, Konstantinos Sotiriadis, Mykola Surianinov, Dr. Oleh Turutanov, Dr. Nina Rashkevich, Vladimir Andronov, Yurii Otrosh, Dr. Volodimir Trigub and Andrii Kondratiev

The International Scientific Applied Conference "Problems of Emergency Situations" (PES) is a series of meetings organized on an annual basis by the National University of Civil Defence of Ukraine (Kharkiv, Ukraine). For the 2024 meeting, the conference partnered with the Odessa State Academy of Civil Engineering and Architecture (Odessa, Ukraine). The purpose of the conference was to discuss issues related to the problems and prospects of the introduction of the latest developments and technologies aimed at preventing emergencies, minimizing their consequences in the field of civil defence, sharing experience and finding new facets of scientific cooperation as well as solving problems of recent emergencies that create a global threat to humanity.

Topics: Building Materials, Civil Engineering, Construction, Environmental Engineering, Industrial Engineering, Manufacturing, Materials Science, Mechanical Engineering, Mechanics, Nanoscience

Keywords: Absorption, Alloy, Building Materials, Cement, Chemical Safety, Coating, Combustible Materials, Composite, Concrete, Electromagnetic Radiation, Fire Protection, Fire Resistance, Fire Retardants, Hazardous Materials, Heavy Metals, Mechanical Engineering, Mechanical Properties, Mechanics of Structures, Polymer, Steel, Surface Treatment, Waste Management, Waste Recycling, Wastewater Treatment, Water Treatment, Wood

Prices:			
	Print:	**US$ 380.00/ EUR 380.00**	Print: 978-3-0364-0413-4
	eBook Single-User:	**US$ 198.00/ EUR 198.00**	eBook: 978-3-0364-1413-3
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*534 pages, 2025*
			https://www.scientific.net/978-3-0364-0413-4/book

The 8th International Conference on Advanced Material for Better Future (8th ICAMBF)

Volume in the series: 175

Aggregated Book

Edited by: Dr. Risa Suryana, Dianisa Khoirum Sandi and Rosid Eka Mustofa

This publication is a selection of peer-reviewed articles presented at the 8th International Conference on Advanced Material for Better Future (ICAMBF 2023), held on October 19, 2023, in Surakarta, Indonesia. ICAMBF aims to create an international forum for academics, researchers and scientists from all over the world to discuss and share their research results, proposals, new ideas and new technologies in the fields of materials and nanomaterials through interactive discussions and technical sessions. The papers included in this collection are dedicated to and consider a wide range of topics in the part of materials science related to functional and specialized materials: synthesis technologies, properties analysis, and features of their applications.

Topics: Bioscience and Medicine, Building Materials, Manufacturing, Materials Science, Mechanical Engineering, Mechanics, Nanoscience

Keywords: Absorption, Antibacterial Material, Bioconversion, Biomaterials, Ceramics, Composite, Dye-Sensitized Solar Cell, Electrical Properties, Glass, Liquid Crystal, Mechanical Engineering, Mechanical Properties, Membrane, Membrane Technology, Metal-Organic Framework, Pharmacology, Photocatalyst, Polymer, Porous Silica

Prices:			
	Print:	**US$ 380.00/ EUR 380.00**	Print: 978-3-0364-0443-1
	eBook Single-User:	**US$ 198.00/ EUR 198.00**	eBook: 978-3-0364-1443-0
	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*454 pages, 2025*
			https://www.scientific.net/978-3-0364-0443-1/book

The 13th Annual International Conference on Sciences and Engineering (AIC-SE)

Volume in the series: 174

Aggregated Book

Edited by: Taufik Fuadi Abidin, Nasrul Arahman, Prof. Sugianto Sugianto, Dr. Syawaliah Muchtar, Dr. Yunida Yunida and Dr. Vera Halfiani

This edition features articles presented at the Annual International Conference on Science and Engineering (AIC-SE) 2023, held in Banda Aceh, Indonesia, on November 13-14, 2023. Aligned with the conference theme, "Science and Technology on Coffee and Other Local Commodities for Enhancing Human Prosperity," these selected articles underscore the extensive research achievements across various domains of science and engineering. With a distinctive focus on materials fabrication, modification, characterization, and practical application utilizing natural local commodities, the presented contributions illuminate the forefront of advancements and innovative solutions within the mentioned fields, showcasing the impactful integration of indigenous resources into scientific and engineering endeavors.

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

Keywords: Adsorbents, Biomass Processing, Catalysts, Cement, Composites, Concrete, Fibers, Food Processing, Green Building Materials, Laser Induced Breakdown Spectroscopy (LIBS), Membranes, Nanomaterials, Natural Materials, Near-Infrared Spectroscopy (NIRS), Optical Emission Spectroscopy (OES), Photocatalysis, Polymers, Pyrolysis, Waste Treatment, Water Treatment

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	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*242 pages, 2025*
			https://www.scientific.net/978-3-0357-2735-7/book

The 4th International Conference on Engineering Science and Innovative Technology (ESIT)

Volume in the series: 173

Aggregated Book

Edited by: Assoc. Prof. Dr. Rattanakorn Phadungthin, Wannalak Laotaweesub and Paleerat Wongchampa

The 4th International Conference on Engineering Science and Innovative Technology (ESIT 2024) presented a crucial platform for academics, researchers, and industry professionals to explore and address the multifaceted challenges of our rapidly evolving world. This edition of the conference held at the Amari Pattaya, Thailand, on February 20-23, 2024, continued the tradition of fostering interdisciplinary collaboration and innovation in engineering science. Attendees benefited from a rich program featuring keynote speeches, diverse presentations, interactive workshops, and panel discussions on cutting-edge topics in energy management, industrial applications, and technological innovations. ESIT2024 aimed to not only share knowledge and research findings but also to inspire new ideas and collaborative efforts that will propel the field of engineering science forward.

Topics: Environmental Engineering, Materials Science, Mechanical Engineering, Mechanics

Keywords: 3D Printing, Abrasives, Activated Carbon, Additive Manufacturing, Aluminum Alloy, Catalysts, Chemical Mechanical Polishing, Dielectrics, Electrical Vehicles, Finite Element Analysis, Functional Materials, Lithium-Ion Battery, Mechanical Engineering, Metal Casting, Multi-Rotor, Natural Rubber, Non-Thermal Plasma, Photosynthetic Bacteria, Pollutant Removal, Renewable Energy, Steel, Waste Treatment, Water Treatment, Wireless Power Transfer

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	Print:	**US$ 155.00/ EUR 155.00**	Print: 978-3-0357-1857-7
	eBook Single-User:	**US$ 155.00/ EUR 155.00**	eBook: 978-3-0357-3772-1
	eBook Multi-User:	**US$ 271.00/ EUR 271.00**	*170 pages, 2025*
			https://www.scientific.net/978-3-0357-1857-7/book

The 22nd International Conference on Recent Advances in Mechanical Engineering for Sustainable Development (ISME)

Volume in the series: 172

Aggregated Book

Edited by: Prof. Amit Pal, Prof. Vijay Gautam, Prof. Pravin Kumar, Prof. Qasim Murtaza, Prof. Hee Chang Lim and Prof. K. A. Subramanian

Modern mechanical engineering is one of the most diverse and developed engineering disciplines. To meet industry demands, mechanical engineers must be equipped with analytical tools that help them explore existing and develop new cutting-edge solutions in many branches of industry. Understanding the challenges of modern development and realising the importance of sustainability in research and development, the current international conference on Recent Advances in Mechanical Engineering for Sustainable Development (ISME RAMESD 2024) was focused on actual engineering solutions in mechanical engineering.

Topics: General Engineering, Materials Science, Mechanical Engineering, Mechanics

Keywords: 3D Printing, ABAQUS, Additive Manufacturing, Alloys, Aluminium, Clay, Coalescence Dynamics, Computational Fluid Dynamics (CFD), Cracks, Crashworthiness, Dry Turning, Finite Element Methods, Friction Stir Welding, Graphene, Heat Transfer, Lattice Boltzmann Method, Mass Transfer, Mathematical Modelling, Mechanical Engineering, Photovoltaic Panels, Powder Metallurgy, Renewable Energy Production, Road Safety, Rotor Dynamics, Solar Energy, SolidWorks, Speed Bump, Steel, Tensile Strength, Traffic Management, Turbine, Vehicle Research, Wastewater Treatments

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	eBook Multi-User:	**US$ 280.00/ EUR 280.00**	*208 pages, 2025*
			https://www.scientific.net/978-3-0364-0557-5/book

The 6th International Conference on Materials Science and Manufacturing Technology (ICMSMT)

Volume in the series: 171

Aggregated Book

Edited by: Dr. Ramya Muthusamy, Thangaprakash Sengodan and M. Seenuvasan

Materials and technologies are significant elements for all kinds of high-tech industries that pave the road for advancements in the manufacturing area. With the rapid development of computer technology, communications technology, and network technology, the traditional manufacturing process has evolved into intelligent manufacturing that is more technologically flexible and efficient. The Sixth International Conference on Materials Science and Manufacturing Technology 2024 (ICMSMT 2024) provided a premier interdisciplinary platform for researchers, academicians, and practitioners worldwide to present recent developments in materials sciences and manufacturing technology.

Topics: Materials Science, Mechanics, Nanoscience

Keywords: Alloys, Ceramics, Composites, Corrosion, Dielectrics, Electrodes, Electronic Devices, Fibers, Glasses, Liquid Crystals, Microhardness, Milling, Polymers, Reinforcement, Semiconductors

Prices:			
	Print:	**US$ 135.00/ EUR 135.00**	Print: 978-3-0364-0580-3
	eBook Single-User:	**US$ 135.00/ EUR 135.00**	eBook: 978-3-0364-1580-2
	eBook Multi-User:	**US$ 236.00/ EUR 236.00**	*160 pages, 2025*
			https://www.scientific.net/978-3-0364-0580-3/book

The 4th International Conference and Exhibition on Powder Technology Indonesia (ICePTi)

Volume in the series: 170

Aggregated Book

Edited by: Prof. I Made Joni, Dr. Noto Susanto Gultom and Prof. Ayi Bahtiar

This articles collection consists of selected presentations from the 4th International Conference and Exhibition on Powder Technology Indonesia (ICePTi 2023). ICePTi is a biennial international conference and exhibition organized by the Functional Nano Powder University Center of Excellence (FiNder U-CoE), Universitas Padjadjaran, and the Indonesian Powder Association. This edition illustrates the diverse ongoing research in engineering and materials science, showcasing innovative approaches and advancements in the fields.

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

Keywords: 3D Printing, Adsorption, Agricultural Waste, Biobased Materials, Biofilm Reactor, Biosynthesis, Chitosan, Electrodes, Energy Storage Devices, Functional Materials, Gold Nanoparticles, Leaf Extract, Microcontrollers, Molecular Modeling, Nanocomposites, Nanosuspension, Porous Carbon, Porous Silicon, Sensors, Supercapacitors, Water Treatment

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	eBook Multi-User:	**US$ 228.00/ EUR 228.00**	*148 pages, 2025*
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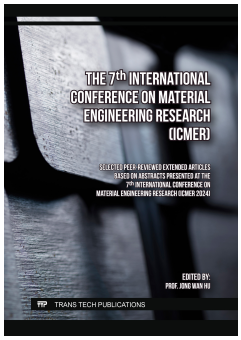

The 7th International Conference on Material Engineering Research (ICMER)

Volume in the series: 169

Aggregated Book

Edited by: Prof. Jong Wan Hu

The 7th International Conference on Material Engineering Research (ICMER 2024) took place in Jeju Island, South Korea, on April 19-21, 2024. The primary objective of ICMER 2024 was to provide a world-class forum for exchanging new information and the latest research results, exploring collaborations and sparking new ideas, with the aim of developing new projects and exploiting new technology in the field of applied materials and advanced materials processing technologies. The meeting brought together academics, scientists, engineers, postgraduates and other professionals in the area of material science and engineering technology from all over the world.

Topics: Materials Science, Mechanical Engineering, Nanoscience

Keywords: Additive Manufacturing, Alloys, Cast Iron, Colloids, Compression Molding Machine, Corrosion Inhibitors, Crystallographic Structure, Drilling Fluid Systems, Image Processing, Laser Powder Bed Fusion, Machines, Mesoporous Silica Nanoparticles, Packaging Materials, Plant Fibers, Polymers, Semiconductors, Shaft, Solar Cells, Steel, Twin-Roll Casting, Welding, Wire Coiling

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	eBook Multi-User:	**US$ 201.00/ EUR 201.00**	*120 pages, 2025*
			https://www.scientific.net/978-3-0364-0003-7/book

The 2nd International Conference on Advances in Materials and Engineering (ICAME)

Volume in the series: 168

Aggregated Book

Edited by: Dr. C Nadhamuni Reddy, Dr. Avijit Ghosh and Dr. Pragathi Bellamkonda Rao

The 2nd International Conference on Advances in Materials and Engineering (ICAME 2024) was jointly organised by the Annamacharya Institute of Technology and Sciences (AITS-T), Tirupati, and the "Science and Technology Research Foundation" (STRF), India, and successfully held on April 19-20, 2024. It focused on the latest research findings in materials and their processing technologies in machinery and construction. The conference provided a sound platform to exchange ideas, innovations, developments and technical aspects among researchers.

Topics: Building Materials, Civil Engineering, Construction, Electronics, Materials Science, Mechanical Engineering

Keywords: Bridge Health Monitoring, Building Materials, Charging System, Composite, Concrete, Electronics, Geopolymer, Green Concrete, Mechanical Properties, Metal Matrix Composite, Soil Stabilisation, Steel, Structural Materials, Water Quality Monitoring, Wire Electro Discharge Machining, Zeolite

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	Print:	**US$ 145.00/ EUR 145.00**	Print: 978-3-0364-0600-8
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	eBook Multi-User:	**US$ 254.00/ EUR 254.00**	*176 pages, 2025*
			https://www.scientific.net/978-3-0364-0600-8/book

The 3rd International Symposium on Advanced Materials and Processing (ISAMP)

Volume in the series: 167

Aggregated Book

Edited by: Azlin Fazlina Osman, Dr. Mohd Fairul Sharin Abdul Razak and Dr. Sinar Arzuria Adnan

This edition is dedicated to the latest research findings in the area of materials science and engineering with a focus on processing, properties and characterization, design and applications. This collection was prepared based on the materials of the 3rd International Symposium on Advanced Materials and Processing (ISAMP 2023) and will be helpful and interesting to engineers, researchers and specialists in the fields of polymers, composites, biocomposites, ceramics and inorganic materials.

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

Keywords: Bioceramics, Biocomposite, Biomaterials, Biopolymer, Deep Eutectic Solvent, Graphene Oxide, Green Composite, Mechanical Properties, Nanofluid, Plastic Waste, Polymer, Thermoplastic

Prices:			
	Print:	**US$ 110.00/ EUR 110.00**	Print: 978-3-0364-0298-7
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	eBook Multi-User:	**US$ 193.00/ EUR 193.00**	*126 pages, 2025*
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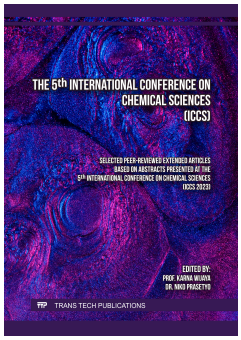

The 5th International Conference on Chemical Sciences (ICCS)

Volume in the series: 166

Aggregated Book

Edited by: Prof. Karna Wijaya and Dr. Niko Prasetyo

The 5th International Conference on Chemical Sciences (ICCS 2023) was organized by the Department of Chemistry, Faculty of Mathematics and Natural Sciences, Universitas Gadjah Mada (UGM), and was successfully held on 08-09 August 2023. The theme of this conference was “Fuel for Sustainable Living”, and its scope covered a variety of topics related to analytical, physical, organic and computational chemistry.

Topics: Materials Science, Nanoscience

Keywords: Biomaterials, Catalyst, CoAl, Composite, Computational Materials Science, Density Functional Theory, Digital Colorimetric Analysis, Ethanol Dehydration, Mechanical Properties, Molecular Dynamics, Nanomaterials, Polymer

Prices:			
	Print:	**US$ 195.00/ EUR 195.00**	Print: 978-3-0364-0382-3
	eBook Single-User:	**US$ 195.00/ EUR 195.00**	eBook: 978-3-0364-1382-2
	eBook Multi-User:	**US$ 341.00/ EUR 341.00**	*220 pages, 2025*
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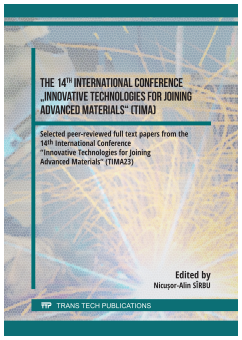

The 14th International Conference "Innovative Technologies for Joining Advanced Materials" (TIMA)

Volume in the series: 165

Aggregated Book

Edited by: Dr. Nicuşor-Alin Sîrbu

This edition includes the selected papers presented at the 14th International Conference "Innovative Technologies for Joining Advanced Materials" (TIMA 23) held in Timişoara, România, by videoconference, on November 09-10, 2023. The event brought together researchers from institutes, universities and economic fields from different countries to discuss the following actual topics: new joining technologies; modelling and simulation of welding processes; specific problems in advanced materials joining; characterization of advanced materials and joints; fracture mechanics, damage of advanced materials and remaining life assessment; quality of welded joints and welded structures; engineering applications of surface coatings; non-destructive testing (NDT); nanoscience, nanotechnology and composites. We hope the presented research results will be useful to many researchers and engineers in materials science, machinery and construction.

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

Keywords: Abrasive Waterjet Cutting, Additive Manufacturing, Alloy, Arc Welding, Brazing, Building Materials, Capacitor Discharge Spot Welding, Cavitation Resistance, Clinch Joint, Coating, Composite, Engraving, Fracture Mechanics, Friction Stir Welding, Gas Tungsten Arc Welding, Mechanical Properties, Parts Repair, Polymer, Spot Welding, Steel, Submerged Friction Stir Welding, Tool, Ultrasonic Welding, Welded Joint, Welds

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	eBook Multi-User:	**US$ 347.00/ EUR 347.00**	*454 pages, 2025*
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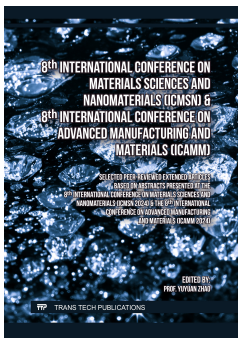

8th International Conference on Materials Sciences and Nanomaterials (ICMSN) & 8th International Conference on Advanced Manufacturing and Materials (ICAMM)

Volume in the series: 164

Aggregated Book

Edited by: Prof. Yuyuan Zhao

This edition is based on the results of the 8th International Conference on Materials Sciences and Nanomaterials (ICMSN 2024) and the 8th International Conference on Advanced Manufacturing and Materials (ICAMM 2024). These two prestigious conferences, held in Edinburgh, UK, on July 9-12, 2024, brought together researchers, scientists and engineers from around the world to share their latest findings, innovations and insights on cutting-edge materials science, nanotechnology and advanced manufacturing.

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

Keywords: Additive Manufacturing, Annealing, Arc Welding, Biobased Thermosets, Biomaterials, Cermet, Coatings, Electrospinning, High Entropy Alloys, Intermetallic Compounds, Nanofibers, Nanomaterials, Photocatalysis, Polymers, Solder Alloys, Spark Plasma Sintering, Stainless Steels, Thermomechanics, Thin Films

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	eBook Multi-User:	**US$ 193.00/ EUR 193.00**	*114 pages, 2025*
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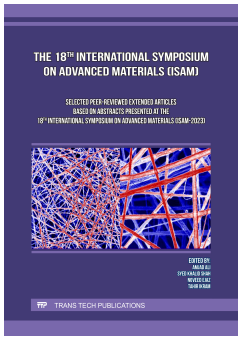

The 18th International Symposium on Advanced Materials (ISAM)

Volume in the series: 163

Aggregated Book

Edited by: Amjad Ali, Dr. Syed Khalid Shah, Noveed Ejaz and Tahir Ikram

This book contains selected peer-reviewed full-text research papers from the 18th International Symposium on Advanced Materials (18th ISAM) held at the National Centre for Physics (NCP), Islamabad, Pakistan, on October 02-06, 2023. The editors hope that this compilation of the conference results will provide the reader with a broad overview of the latest advances in the field of advanced materials science and technologies, and will be a valuable reference source for further research.

Topics: Bioscience and Medicine, Industrial Engineering, Manufacturing, Materials Science, Mechanical Engineering, Mechanics, Nanoscience

Keywords: Alloy, Biomaterials, Composite, Dielectric Properties, Diffusion Bonding, Electrode Materials, Engineering Research, Functional Materials, Graphene Oxide, Hexaferrite, High Entropy Alloy, Magnetic Properties, Manganese Oxide, Mechanical Properties, Nanocomposite, Nanomaterials, Perovskite, Polymer, Steel, Supercapacitor, Welding

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Print: 978-3-0364-0277-2
eBook: 978-3-0364-1277-1
284 pages, 2025
https://www.scientific.net/978-3-0364-0277-2/book

2nd International Conference on Recent Advancements in Materials, Design & Manufacturing (ICRAMDM)

Volume in the series: 162

Aggregated Book

Edited by: Dr. Syed Imran Shafiq, Dr. Wasif Ullah Khan, Dr. Md. Israr Equbal and Dr. Mohd. Yunus Khan

This issue features detailed research findings from the 2nd International Conference on Recent Advancements in Materials, Design, and Manufacturing (ICRAMDM 2023). The conference interdisciplinary platform covers a wide range of topics, including new materials synthesis techniques, innovative design methodologies, and cutting-edge manufacturing processes. Articles delve into properties and applications of materials, efficient product design principles, and advanced manufacturing techniques, offering valuable insights for academicians, researchers, scientists, and industry professionals.

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

Keywords: Additive Manufacturing, Alloy, Composite, Construction Technology, Cutting Tool, Electrical Discharge Machining, Engineering Management, Flexible Manufacturing System, Forging Die, Industrial Engineering, Industry 4.0, Lap Joint, Machining, Mechanical Properties, Polymer, Product Design, Steel

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