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List of Publications by Year in descending order

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74
papers

1,645
citations

346980

22
h-index

388640

36
g-index

77
all docs

77
docs citations

77
times ranked

1645
citing authors

#	ARTICLE	IF	CITATIONS
1	Naturally prefabricated 3D chitinous skeletal scaffold of marine demosponge origin, biomineralized ex vivo as a functional biomaterial. <i>Carbohydrate Polymers</i> , 2022, 275, 118750.	5.1	12
2	Valorization of disposable polylactide (PLA) cups by rotational molding technology: The influence of pre-processing grinding and thermal treatment. <i>Polymer Testing</i> , 2022, 107, 107481.	2.3	14
3	Rotational molding of polylactide (PLA) composites filled with copper slag as a waste filler from metallurgical industry. <i>Polymer Testing</i> , 2022, 106, 107449.	2.3	29
4	Evaluation of the Oil-Rich Waste Fillersâ€™ Influence on the Tribological Properties of Polylactide-Based Composites. <i>Materials</i> , 2022, 15, 1237.	1.3	5
5	Enzymatic membrane reactor in xylose bioconversion with simultaneous cofactor regeneration. <i>Bioorganic Chemistry</i> , 2022, 123, 105781.	2.0	3
6	Removal of Persistent Sulfamethoxazole and Carbamazepine from Water by Horseradish Peroxidase Encapsulated into Poly(Vinyl Chloride) Electrospun Fibers. <i>International Journal of Molecular Sciences</i> , 2022, 23, 272.	1.8	12
7	Ionic liquid-assisted synthesis of chitinâ€“ethylene glycol hydrogels as electrolyte membranes for sustainable electrochemical capacitors. <i>Scientific Reports</i> , 2022, 12, .	1.6	6
8	Tribological Behavior and Wear Mechanism of Ni-Nano TiO ₂ Composite Sintered Material at Room Temperature and 600 Â°C. <i>Lubricants</i> , 2022, 10, 120.	1.2	2
9	Thermomechanical and Fire Properties of Polyethylene-Composite-Filled Ammonium Polyphosphate and Inorganic Fillers: An Evaluation of Their Modification Efficiency. <i>Polymers</i> , 2022, 14, 2501.	2.0	8
10	Electrospun biosystems made of nylon 6 and laccase and its application in dyes removal. <i>Environmental Technology and Innovation</i> , 2021, 21, 101332.	3.0	18
11	The Effect of Surface Treatment with Isocyanate and Aromatic Carbodiimide of Thermally Expanded Vermiculite Used as a Functional Filler for Polylactide-Based Composites. <i>Polymers</i> , 2021, 13, 890.	2.0	18
12	By-Products from Food Industry as a Promising Alternative for the Conventional Fillers for Woodâ€“Polymer Composites. <i>Polymers</i> , 2021, 13, 893.	2.0	11
13	The Role of Inorganic-Organic Bio-Fillers Containing Kraft Lignin in Improvement in Functional Properties of Polyethylene. <i>Materials</i> , 2021, 14, 2114.	1.3	10
14	Ground Tire Rubber Filled Flexible Polyurethane Foamâ€™Effect of Waste Rubber Treatment on Composite Performance. <i>Materials</i> , 2021, 14, 3807.	1.3	16
15	Three-dimensional commercial-sponge-derived Co ₃ O ₄ @C catalysts for effective treatments of organic contaminants. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105631.	3.3	10
16	The inhibiting effect of basalt powder on crystallization behavior and the structure-property relationship of Î±-nucleated polypropylene composites. <i>Polymer Testing</i> , 2021, 103, 107372.	2.3	6
17	Synthesis of Selected Mixed Oxide Materials with Tailored Photocatalytic Activity in the Degradation of Tetracycline. <i>Materials</i> , 2021, 14, 5361.	1.3	10
18	Modification of structured bioâ€“carbon derived from spongin-based scaffolds with nickel compounds to produce a functional catalyst for reduction and oxidation reactions: Potential for use in environmental protection. <i>Science of the Total Environment</i> , 2021, 794, 148692.	3.9	9

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19	The accelerated aging impact on polyurea spray-coated composites filled with basalt fibers, basalt powder, and halloysite nanoclay. <i>Composites Part B: Engineering</i> , 2021, 225, 109286.	5.9	9
20	Characterization of Wâ€“Cr Metal Matrix Composite Coatings Reinforced with WC Particles Produced on Low-Carbon Steel Using Laser Processing of Precoat. <i>Materials</i> , 2020, 13, 5272.	1.3	3
21	Microstructure, Microhardness, Corrosion Resistance and Chemical Composition of Mo, B and Mo-B Coatings Produced Using Laser Processing. <i>Materials</i> , 2020, 13, 3249.	1.3	11
22	The Indirect Tribological Role of Carbon Nanotubes Stimulating Zinc Dithiophosphate Anti-Wear Film Formation. <i>Nanomaterials</i> , 2020, 10, 1330.	1.9	8
23	Influence of Laser Cladding Parameters on Microstructure, Microhardness, Chemical Composition, Wear and Corrosion Resistance of Feâ€“B Composite Coatings Reinforced with B4C and Si Particles. <i>Coatings</i> , 2020, 10, 809.	1.2	19
24	Effect of Basalt Powder Surface Treatments on Mechanical and Processing Properties of Polylactide-Based Composites. <i>Materials</i> , 2020, 13, 5436.	1.3	12
25	Laser Surface Alloying of Austenitic 316L Steel with Boron and Some Metallic Elements: Microstructure. <i>Materials</i> , 2020, 13, 4852.	1.3	8
26	Rotational Molding of Linear Low-Density Polyethylene Composites Filled with Wheat Bran. <i>Polymers</i> , 2020, 12, 1004.	2.0	44
27	Synergistic effect of different basalt fillers and annealing on the structure and properties of polylactide composites. <i>Polymer Testing</i> , 2020, 89, 106628.	2.3	24
28	Synthesis of Titanium Dioxide via Surfactant-Assisted Microwave Method for Photocatalytic and Dye-Sensitized Solar Cells Applications. <i>Catalysts</i> , 2020, 10, 586.	1.6	26
29	Crystallization of TiO2-MoS2 Hybrid Material under Hydrothermal Treatment and Its Electrochemical Performance. <i>Materials</i> , 2020, 13, 2706.	1.3	8
30	Effect of lanthanumâ€“modified magnesium silicate on isotactic polypropylene crystallization in composite materials during shear flow. <i>Polymer Engineering and Science</i> , 2020, 60, 1856-1865.	1.5	5
31	Liquid Boriding of Cp-Ti and Ti6Al4V Alloy: Characterization of Boride Layers and Tribological Properties. <i>Surface Engineering and Applied Electrochemistry</i> , 2020, 56, 348-357.	0.3	9
32	The Impact of the Vanadium Oxide Addition on the Physicochemical Performance Stability and Intercalation of Lithium Ions of the TiO2-rGO-electrode in Lithium Ion Batteries. <i>Materials</i> , 2020, 13, 1018.	1.3	8
33	Development of polylactide composites with improved thermomechanical properties by simultaneous use of basalt powder and a nucleating agent. <i>Polymer Composites</i> , 2020, 41, 2947-2957.	2.3	26
34	Characterization and Boronizing Kinetics of EN-GJL-250 Lamellar Gray Cast Iron. <i>Annales De Chimie: Science Des Materiaux</i> , 2020, 44, 23-28.	0.2	6
35	The influence of solid lubricant on tribological properties of sintered Niâ€“20%CaF2 composite material. <i>Ceramics International</i> , 2019, 45, 17103-17113.	2.3	29
36	Influence of niobium and molybdenum addition on microstructure and wear behavior of laser-borided layers produced on Nimonic 80A-alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 322-337.	1.7	6

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37	Visualization of particles arrangement during filling stage of polyamide 6 metal insert injection molding. <i>Polymer Engineering and Science</i> , 2019, 59, E271.	1.5	8
38	Wear behavior of self-lubricating boride layers produced on Inconel 600-alloy by laser alloying. <i>Wear</i> , 2019, 426-427, 919-933.	1.5	23
39	Poly(vinyl chloride) powder as a low-cost flame retardant modifier for epoxy composites. <i>International Journal of Polymer Analysis and Characterization</i> , 2019, 24, 447-456.	0.9	4
40	Scanning electron microscopic examination of absorption potency of various fibrous dressings. <i>Journal of Wound Care</i> , 2019, 28, 82-88.	0.5	1
41	Functional titania-silica/chlorophyllin hybrids: design, fabrication, comprehensive physicochemical characteristic and photocatalytic test. <i>Adsorption</i> , 2019, 25, 485-499.	1.4	8
42	Advanced Ga ₂ O ₃ /Lignin and ZrO ₂ /Lignin Hybrid Microplatforms for Glucose Oxidase Immobilization: Evaluation of Biosensing Properties by Catalytic Glucose Oxidation. <i>Catalysts</i> , 2019, 9, 1044.	1.6	18
43	Hydrothermal synthesis of multifunctional TiO ₂ -ZnO oxide systems with desired antibacterial and photocatalytic properties. <i>Applied Surface Science</i> , 2019, 463, 791-801.	3.1	64
44	Application of the Basalt Powder as a Filler for Polypropylene Composites With Improved Thermo-Mechanical Stability and Reduced Flammability. <i>Polymer Engineering and Science</i> , 2019, 59, E71.	1.5	30
45	Polyethylene green composites modified with post agricultural waste filler: thermo-mechanical and damping properties. <i>Composite Interfaces</i> , 2018, 25, 287-299.	1.3	32
46	Heat-Resisting Aluminized Coatings Modified by Chromium Addition Produced on Nickel-Based Alloys. <i>Transactions of the Indian Institute of Metals</i> , 2018, 71, 2919-2931.	0.7	5
47	TiO ₂ -ZnO Binary Oxide Systems: Comprehensive Characterization and Tests of Photocatalytic Activity. <i>Materials</i> , 2018, 11, 841.	1.3	97
48	Effect of wood flour addition and modification of its surface on the properties of rotationally molded polypropylene composites. <i>Polimery</i> , 2018, 63, 772-784.	0.4	21
49	Nano-TiO ₂ -SiO ₂ powder as inorganic support for hybrid pigment preparation. <i>Advanced Powder Technology</i> , 2017, 28, 1298-1308.	2.0	7
50	Evaluation of the photocatalytic ability of a sol-gel-derived MgO-ZrO ₂ oxide material. <i>Open Chemistry</i> , 2017, 15, 7-18.	1.0	13
51	Adhesive Stalks of Diatom <i>Didymosphenia geminata</i> as a Novel Biological Adsorbent for Hazardous Metals Removal. <i>Clean - Soil, Air, Water</i> , 2017, 45, 1600678.	0.7	13
52	Treatment of model solutions and wastewater containing selected hazardous metal ions using a chitin/lignin hybrid material as an effective sorbent. <i>Journal of Environmental Management</i> , 2017, 204, 300-310.	3.8	49
53	Nanomechanical characterization and fracture toughness of FeB and Fe ₂ B iron borides produced by gas boriding of Armco iron. <i>Surface and Coatings Technology</i> , 2017, 325, 515-532.	2.2	94
54	Self-lubricating surface layers produced using laser alloying of bearing steel. <i>Wear</i> , 2017, 376-377, 993-1008.	1.5	33

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55	Sodium Copper Chlorophyllin Immobilization onto <i>Hippospongia communis</i> Marine Demosponge Skeleton and Its Antibacterial Activity. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1564.	1.8	25
56	Marine sponge skeleton photosensitized by copper phthalocyanine: A catalyst for Rhodamine B degradation. <i>Open Chemistry</i> , 2016, 14, 243-254.	1.0	29
57	EFFECT OF SURFACE TREATMENT ON ABRASIVE WEAR RESISTANCE OF SEEDER COULTER FLAP. <i>Surface Review and Letters</i> , 2016, 23, 1650007.	0.5	12
58	Wear resistance improvement of 100CrMnSi6-4 bearing steel by laser boriding using CaF ₂ self-lubricating addition. <i>Tribology International</i> , 2016, 97, 173-191.	3.0	35
59	Diffusion Niobizing of Titanium Grade 2 by Gas-Contact Method. <i>Key Engineering Materials</i> , 2015, 669, 158-166.	0.4	0
60	Influence of laser alloying with boron and niobium on microstructure and properties of Nimonic 80A-alloy. <i>Optics and Laser Technology</i> , 2015, 75, 229-239.	2.2	21
61	The effects of chemical composition of Nimonic 80A-alloy on the microstructure and properties of gas-borided layer. <i>Surface and Coatings Technology</i> , 2015, 276, 440-455.	2.2	33
62	Microstructure, microhardness and corrosion resistance of Stellite-6 coatings reinforced with WC particles using laser cladding. <i>Optics and Laser Technology</i> , 2015, 68, 191-201.	2.2	168
63	An Attempt to Develop the Methodology of Examining the Boron Content in Construction Materials with the Use of Eds Method. <i>Archives of Metallurgy and Materials</i> , 2015, 60, 477-481.	0.6	1
64	A study of nanoindentation for mechanical characterization of chromium and nickel borides™ mixtures formed by laser boriding. <i>Ceramics International</i> , 2014, 40, 6083-6094.	2.3	47
65	Deposition of silver nanoparticles on organically-modified silica in the presence of lignosulfonate. <i>RSC Advances</i> , 2014, 4, 52476-52484.	1.7	23
66	The sol-gel approach as a method of synthesis of xMgO·ySiO ₂ powder with defined physicochemical properties including crystalline structure. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 71, 501-513.	1.1	27
67	Microstructure and properties of laser-borided composite layers formed on commercially pure titanium. <i>Optics and Laser Technology</i> , 2014, 56, 409-424.	2.2	49
68	Microstructure and properties of laser-borided Inconel 600-alloy. <i>Applied Surface Science</i> , 2013, 284, 757-771.	3.1	68
69	Fluoroalkylsilane versus Alkylsilane as Hydrophobic Agents for Silica and Silicates. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-13.	1.5	21
70	Poriferan Chitin as the Scaffold for Nanosilica Deposition under Hydrothermal Synthesis Conditions. <i>Journal of Chitin and Chitosan Science</i> , 2013, 1, 26-33.	0.3	21
71	An alternative method of gas boriding applied to the formation of borocarbured layer. <i>Materials Characterization</i> , 2012, 72, 59-67.	1.9	40
72	Microstructure and properties of borocarbured and laser-modified 17CrNi6-6 steel. <i>Optics and Laser Technology</i> , 2012, 44, 872-881.	2.2	33

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73	Synthesis of vanadium-enriched oxide materials via modified sol-gel route with the use of waste solutions contaminated with vanadium ions. Physicochemical Problems of Mineral Processing, 0, , 60-75.	0.2	3
74	Commercial sponges in heterogeneous catalysis: developing novel composites with cobalt and silver. Physicochemical Problems of Mineral Processing, 0, , 89-100.	0.2	2