

Aziz Babapoor

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

60
papers

1,781
citations

26
h-index

41
g-index

64
ext. papers

2,435
ext. citations

4.5
avg, IF

5.64
L-index

#	Paper	IF	Citations
60	Thermal management analysis of a Li-ion battery cell using phase change material loaded with carbon fibers. <i>Energy</i> , 2016 , 96, 355-371	7.9	187
59	Thermal management of a Li-ion battery using carbon fiber-PCM composites. <i>Applied Thermal Engineering</i> , 2015 , 82, 281-290	5.8	159
58	Effects of spark plasma sintering temperature on densification, hardness and thermal conductivity of titanium carbide. <i>Ceramics International</i> , 2018 , 44, 14541-14546	5.1	96
57	Microstructure and thermomechanical characteristics of spark plasma sintered TiC ceramics doped with nano-sized WC. <i>Ceramics International</i> , 2019 , 45, 2153-2160	5.1	93
56	Green synthesis of silver nanoparticles toward bio and medical applications: review study. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018 , 46, S855-S872	6.1	78
55	Experimental study of a cylindrical lithium ion battery thermal management using phase change material composites. <i>Journal of Energy Storage</i> , 2016 , 8, 168-174	7.8	72
54	Thermal properties measurement and heat storage analysis of paraffin nanoparticles composites phase change material: Comparison and optimization. <i>Applied Thermal Engineering</i> , 2015 , 90, 945-951	5.8	71
53	Spark plasma sintering of TiC/BiCw ceramics. <i>Ceramics International</i> , 2019 , 45, 19808-19821	5.1	69
52	Fabrication and characterization of nanofiber-nanoparticle-composites with phase change materials by electrospinning. <i>Applied Thermal Engineering</i> , 2016 , 99, 1225-1235	5.8	61
51	Strengthening of TiC ceramics sintered by spark plasma via nano-graphite addition. <i>Ceramics International</i> , 2020 , 46, 12400-12408	5.1	56
50	Transition metal oxide-based electrode materials for flexible supercapacitors: A review. <i>Journal of Alloys and Compounds</i> , 2021 , 857, 158281	5.7	51
49	Coaxial electro-spun PEG/PA6 composite fibers: Fabrication and characterization. <i>Applied Thermal Engineering</i> , 2017 , 118, 398-407	5.8	50
48	Triplet carbide composites of TiC, WC, and SiC. <i>Ceramics International</i> , 2020 , 46, 9070-9078	5.1	49
47	Coupled graphene oxide with hybrid metallic nanoparticles as potential electrochemical biosensors for precise detection of ascorbic acid within blood. <i>Analytica Chimica Acta</i> , 2020 , 1107, 183-192	6.6	43
46	Applications of graphene oxide in case of nanomedicines and nanocarriers for biomolecules: review study. <i>Drug Metabolism Reviews</i> , 2019 , 51, 12-41	7	41
45	Introduction of magnetic and supermagnetic nanoparticles in new approach of targeting drug delivery and cancer therapy application. <i>Drug Metabolism Reviews</i> , 2020 , 52, 157-184	7	40
44	A conceptual review of rhodanine: current applications of antiviral drugs, anticancer and antimicrobial activities. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019 , 47, 1132-1148	6.1	39

43	Correlation of density for binary mixtures of methanol+ionic liquids using back propagation artificial neural network. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 213-220	2.8	36
42	Thermal performance of co-electrospun fatty acid nanofiber composites in the presence of nanoparticles. <i>Applied Energy</i> , 2018 , 212, 552-564	10.7	31
41	Thermal characteristic of nanocomposite phase change materials during solidification process. <i>Journal of Energy Storage</i> , 2016 , 7, 74-81	7.8	31
40	Characteristics of quadruplet TiMoTiB ₂ TiC composites prepared by spark plasma sintering. <i>Ceramics International</i> , 2020 , 46, 20885-20895	5.1	31
39	Graphene nano-ribbon based high potential and efficiency for DNA, cancer therapy and drug delivery applications. <i>Drug Metabolism Reviews</i> , 2019 , 51, 91-104	7	31
38	Beneficial role of carbon black on the properties of TiC ceramics. <i>Ceramics International</i> , 2020 , 46, 23544-23553	5.3	30
37	Solvothermal synthesis, characterization and optical properties of ZnO, ZnO/MgO and ZnO/NiO, mixed oxide nanoparticles. <i>Applied Surface Science</i> , 2011 , 257, 4885-4889	6.7	29
36	Development of hydrophobic reduced graphene oxide as a new efficient approach for photochemotherapy.. <i>RSC Advances</i> , 2020 , 10, 12851-12863	3.7	28
35	Physical, mechanical and microstructural characterization of TiC/ZrN ceramics. <i>Ceramics International</i> , 2020 , 46, 22154-22163	5.1	27
34	3D Nanostructures for Tissue Engineering, Cancer Therapy, and Gene Delivery. <i>Journal of Nanomaterials</i> , 2020 , 2020, 1-24	3.2	25
33	Erythrosine Adsorption from Aqueous Solution via Decorated Graphene Oxide with Magnetic Iron Oxide Nano Particles: Kinetic and Equilibrium Studies. <i>Acta Chimica Slovenica</i> , 2018 , 65, 882-894	1.9	23
32	Phase change materials as quenching media for heat treatment of 42CrMo4 steels. <i>Journal of Central South University</i> , 2020 , 27, 752-761	2.1	20
31	Microstructural, mechanical and friction properties of nano-graphite and h-BN added TiC-based composites. <i>Ceramics International</i> , 2020 , 46, 28969-28979	5.1	18
30	Evaluation of Al ₂ O ₃ -PW nanocomposites for thermal energy storage in the agro-products solar dryer. <i>Journal of Energy Storage</i> , 2020 , 28, 101181	7.8	17
29	Green synthesis of supermagnetic Fe ₃ O ₄ /MgO nanoparticles via Nutmeg essential oil toward superior anti-bacterial and anti-fungal performance. <i>Journal of Drug Delivery Science and Technology</i> , 2019 , 54, 101352	4.5	16
28	Development of graphene based nanocomposites towards medical and biological applications. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2020 , 48, 1189-1205	6.1	11
27	Evaluation of the effect of silica nanoparticles, temperature and pressure on the performance of PSF/PEG/SiO ₂ mixed matrix membranes: A molecular dynamics simulation (MD) and design of experiments (DOE) study. <i>Journal of Molecular Liquids</i> , 2021 , 333, 115957	6	10
26	Bioactive Graphene Quantum Dots Based Polymer Composite for Biomedical Applications.. <i>Polymers</i> , 2022 , 14,	4.5	9

25	Recent advances in synthesis and applications of mixed matrix membranes. <i>Synthesis and Sintering</i> , 2021 , 1, 1-27		9
24	Bioinorganic Synthesis of Polyrhodanine Stabilized FeO/Graphene Oxide in Microbial Supernatant Media for Anticancer and Antibacterial Applications. <i>Bioinorganic Chemistry and Applications</i> , 2021 , 2021, 9972664	4.2	9
23	Separation of Ni (II) from Industrial Wastewater by Kombucha Scoby as a Colony Consisted from Bacteria and Yeast: Kinetic and Equilibrium Studies. <i>Acta Chimica Slovenica</i> , 865-873	1.9	7
22	Nitrobenzene adsorption from aqueous solution onto polythiophene-modified magnetite nanoparticles. <i>Materials Chemistry and Physics</i> , 2021 , 262, 124266	4.4	7
21	Recent Advancements in Polythiophene-Based Materials and their Biomedical, Geno Sensor and DNA Detection. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	7
20	Enhancement of Rheological and Mechanical Properties of Bitumen by Polythiophene Doped with Nano Fe ₃ O ₄ . <i>Jom</i> , 2019 , 71, 531-540	2.1	7
19	A Review on Health Benefits of L. Nutritional Compounds for Metabolites, Antioxidants, and Anti-Inflammatory, Anticancer, and Antimicrobial Applications. <i>Evidence-based Complementary and Alternative Medicine</i> , 2021 , 2021, 5548404	2.3	7
18	Improvement efficiency of the of poly (ether-block-amide) -Cellulose acetate (Pebax-CA) blend by the addition of nanoparticles (MIL-53 and NH ₂ -MIL-53): A molecular dynamics study. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	6
17	Bio-enhanced polyrhodanine/graphene Oxide/Fe ₃ O ₄ nanocomposite with kombucha solvent supernatant as ultra-sensitive biosensor for detection of doxorubicin hydrochloride in biological fluids. <i>Materials Chemistry and Physics</i> , 2022 , 279, 125743	4.4	5
16	Precise Blood Glucose Sensing by Nitrogen-Doped Graphene Quantum Dots for Tight Control of Diabetes. <i>Journal of Sensors</i> , 2021 , 2021, 1-14	2	5
15	Direct syntheses, characterization and optical analysis of PbX ₂ (X=I, Br and Cl) nanoparticles without any additives. <i>Journal of Saudi Chemical Society</i> , 2013 , 17, 403-407	4.3	4
14	Overview of COVID-19 Disease: Virology, Epidemiology, Prevention Diagnosis, Treatment, and Vaccines. <i>Biologics</i> , 2021 , 1, 2-40		4
13	Flexible all-solid-state supercapacitors with high capacitance, long cycle life, and wide operational potential window: Recent progress and future perspectives. <i>Journal of Energy Storage</i> , 2022 , 50, 104223	7.8	4
12	Elevated performance of the neat, hybrid and composite membranes by the addition of nanoparticles (ZIF-67): A molecular dynamics study. <i>Polymer Bulletin</i> , 1	2.4	3
11	Recent Progress in Electrochemical Detection of Human Papillomavirus (HPV) via Graphene-Based Nanosensors. <i>Journal of Sensors</i> , 2021 , 2021, 1-15	2	3
10	Recovery of Manganese Ions from Aqueous Solutions with Cyanex 272 Using Emulsion Liquid Membrane Technique: A Design of Experiment Study. <i>Journal of Sustainable Metallurgy</i> , 2021 , 7, 1074-1090	2.7	3
9	Recent Advances in MOF-Based Adsorbents for Dye Removal from the Aquatic Environment. <i>Energies</i> , 2022 , 15, 2023	3.1	3
8	Recent Advances in Plasma-Engineered Polymers for Biomarker-Based Viral Detection and Highly Multiplexed Analysis. <i>Biosensors</i> , 2022 , 12, 286	5.9	3

7	Recent Progress in Adsorptive Removal of Water Pollutants by Metal-Organic Frameworks. <i>ChemNanoMat</i> ,	3.5	2
6	Hot-pressing and characterization of TiB ₂ /SiC composites with different amounts of BN additive. <i>Ceramics International</i> , 2021 , 47, 16652-16660	5.1	2
5	Biosensor Design for Detection of Mercury in Contaminated Soil Using Rhamnolipid Biosurfactant and Luminescent Bacteria. <i>Journal of Chemistry</i> , 2020 , 2020, 1-8	2.3	1
4	In-situ formation of TiN during the hot-pressing of TiC/AlN ceramics. <i>Ceramics International</i> , 2021 , 47, 20643-20650	5.1	1
3	Effects of aluminum terephthalate metal-organic framework and its nanocomposites on the corrosion of AM60B magnesium alloy in ethylene glycol solution containing chloride ions. <i>Materials Chemistry and Physics</i> , 2021 , 272, 125056	4.4	1
2	Comparison and Optimization of Operational Parameters in Removal of Heavy Metal Ions From Aqueous Solutions by Low-Cost Adsorbents. <i>International Journal of Chemical Engineering</i> , 2022 , 2022, 1-21	2.2	0
1	Synthesize and multi-spectroscopic studies of zinc-naproxen nanodrug as DNA intercalator agent. <i>Analytical Biochemistry</i> , 2021 , 642, 114454	3.1	