

Faruq Mohammad

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112
papers

2,625
citations

20
h-index

49
g-index

120
ext. papers

3,064
ext. citations

4
avg, IF

5.75
L-index

#	Paper	IF	Citations
112	Magnetic nanomaterials for hyperthermia-based therapy and controlled drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2011 , 63, 789-808	18.5	1150
111	Thermal and dynamic mechanical properties of cellulose nanofibers reinforced epoxy composites. <i>International Journal of Biological Macromolecules</i> , 2017 , 102, 822-828	7.9	146
110	Influence of Gold Nanoshell on Hyperthermia of Super Paramagnetic Iron Oxide Nanoparticles (SPIONs). <i>Journal of Physical Chemistry C</i> , 2010 , 114, 19194-19201	3.8	110
109	Mechanical, morphological and structural properties of cellulose nanofibers reinforced epoxy composites. <i>International Journal of Biological Macromolecules</i> , 2017 , 97, 190-200	7.9	107
108	Feature decision-making ant colony optimization system for an automated recognition of plant species. <i>Expert Systems With Applications</i> , 2015 , 42, 2361-2370	7.8	73
107	Enhanced biological activity and biosorption performance of trimethyl chitosan-loaded cerium oxide particles. <i>Journal of Industrial and Engineering Chemistry</i> , 2017 , 45, 33-43	6.3	56
106	Folic acid targeted Mn:ZnS quantum dots for theranostic applications of cancer cell imaging and therapy. <i>International Journal of Nanomedicine</i> , 2016 , 11, 413-28	7.3	56
105	In vivo tumor targeting and anti-tumor effects of 5-fluororacil loaded, folic acid targeted quantum dot system. <i>Journal of Colloid and Interface Science</i> , 2016 , 480, 146-158	9.3	47
104	Development of PANI/MWCNTs decorated with cobalt oxide nanoparticles towards multiple electrochemical, photocatalytic and biomedical application sites. <i>New Journal of Chemistry</i> , 2016 , 40, 9448-9459	3.6	43
103	Doxorubicin-loaded magnetic gold nanoshells for a combination therapy of hyperthermia and drug delivery. <i>Journal of Colloid and Interface Science</i> , 2014 , 434, 89-97	9.3	35
102	Sustained drug release and electrochemical performance of ethyl cellulose-magnesium hydrogen phosphate composite. <i>Materials Science and Engineering C</i> , 2017 , 71, 735-743	8.3	32
101	Evaluation of the photocatalytic efficiency of cobalt oxide nanoparticles towards the degradation of crystal violet and methylene violet dyes. <i>Optik</i> , 2020 , 207, 164428	2.5	31
100	Electrochemical sensor for the sensitive detection of o-nitrophenol using graphene oxide-poly(ethyleneimine) dendrimer-modified glassy carbon electrode. <i>Graphene Technology</i> , 2016 , 1, 1-15	1.8	27
99	Cytotoxic effects of polystyrene-titanium-arsenate composite in cultured H9c2 cardiomyoblasts. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2013 , 91, 689-96	2.7	27
98	DC electrical conductivity of nano-composite polystyrene-titanium-arsenate membrane. <i>Journal of Industrial and Engineering Chemistry</i> , 2013 , 19, 2046-2051	6.3	26
97	Iminodiacetic acid modified kenaf fiber for waste water treatment. <i>International Journal of Biological Macromolecules</i> , 2018 , 112, 754-760	7.9	25
96	Evaluation of mechanical, thermal and water absorption behaviors of Polyalthia longifolia seed reinforced vinyl ester composites. <i>Carbohydrate Polymers</i> , 2020 , 248, 116748	10.3	24

95	Enhanced biosorption and electrochemical performance of sugarcane bagasse derived a polylactic acid-graphene oxide-CeO ₂ composite. <i>Materials Chemistry and Physics</i> , 2019 , 229, 117-123	4.4	23
94	Chitosan-mediated fabrication of metal nanocomposites for enhanced biomedical applicationsf. <i>Advanced Materials Letters</i> , 2016 , 8, 89-100	2.4	23
93	Removal of toxic mercury from petroleum oil by newly synthesized molecularly-imprinted polymer. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 10562-77	6.3	20
92	An overview of endurance and ageing performance under various environmental conditions of hybrid polymer composites. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 15962-15988	5.5	20
91	Comparative studies of crystal violet dye removal between semiconductor nanoparticles and natural adsorbents. <i>Optik</i> , 2020 , 206, 164281	2.5	18
90	Magnetic Gold Nanoshells: Step-wise Changing of Magnetism through Step-wise Biofunctionalization. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3141-3146	6.4	18
89	Immuno Nanosensor for the Ultrasensitive Naked Eye Detection of Tuberculosis. <i>Sensors</i> , 2018 , 18,	3.8	17
88	Thermodynamics And Electrochemical Characterization Of Core-shell Type Gold-coated Superparamagnetic Iron Oxide Nanoparticles. <i>Advanced Materials Letters</i> , 2014 , 5, 315-324	2.4	17
87	Giant magnetostriction in magnetite nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012 , 177, 14-18	3.1	16
86	Catalytic Activity of Titania-Supported CoreShell Fe ₃ O ₄ @Au Nano-Catalysts for CO Oxidation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22319-22326	3.8	15
85	Spirooxindole-pyrrolidine heterocyclic hybrids promotes apoptosis through activation of caspase-3. <i>Bioorganic and Medicinal Chemistry</i> , 2019 , 27, 2487-2498	3.4	14
84	Synthesis, Characterization and Applications of Ethyl Cellulose-Based Polymeric Calcium(II) Hydrogen Phosphate Composite. <i>Journal of Electronic Materials</i> , 2018 , 47, 2954-2963	1.9	14
83	Electrical Conductivity, Mechanical Stability, Antibacterial And Anticancer Activities Of Ethyl Cellulose-Tin(II) Hydrogen Phosphate. <i>Advanced Materials Letters</i> , 2015 , 6, 1058-1065	2.4	14
82	Influence of iron doping towards the physicochemical and biological characteristics of hydroxyapatite. <i>Ceramics International</i> , 2021 , 47, 5061-5070	5.1	14
81	Highly functionalized pyrrolidine analogues: stereoselective synthesis and caspase-dependent apoptotic activity.. <i>RSC Advances</i> , 2018 , 8, 41226-41236	3.7	14
80	Toxicological screening of marine red algae <i>Champia parvula</i> (C. Agardh) against the dengue mosquito vector <i>Aedes aegypti</i> (Linn.) and its non-toxicity against three beneficial aquatic predators. <i>Aquatic Toxicology</i> , 2020 , 222, 105474	5.1	13
79	Biocompatible polylactic acid-reinforced nickel-arsenate composite: Studies of electrochemical conductivity, mechanical stability, and cell viability. <i>Materials Science and Engineering C</i> , 2019 , 102, 142-149	8.3	12
78	Synthesis, growth and physicochemical characterization of 8-hydroxyquinolinium 3,4 dimethoxybenzoate, a novel organic nonlinear optical single crystal. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	12

77	Surface ligand influenced free radical protection of superparamagnetic iron oxide nanoparticles (SPIONs) toward H9c2 cardiac cells. <i>Journal of Materials Science</i> , 2014 , 49, 6290-6301	4.3	12
76	Thiolate-Capped CdSe/ZnS Core-Shell Quantum Dots for the Sensitive Detection of Glucose. <i>Sensors</i> , 2017 , 17,	3.8	12
75	Esterified Coconut Coir by Fatty Acid Chloride as Biosorbent in Oil Spill Removal. <i>BioResources</i> , 2015 , 10,	1.3	12
74	Application of Nanocellulose for Controlled Drug Delivery 2017 , 1-19		11
73	Cellulose Nanocrystals and PEO/PET Hydrogel Material in Biotechnology and Biomedicine: Current Status and Future Prospects 2017 , 139-173		11
72	Fabrication of nitrogen-rich graphitic carbon nitride/Cu ₂ O (g-C ₃ N ₄ @Cu ₂ O) composite and its enhanced photocatalytic activity for organic pollutants degradation. <i>Journal of Materials Science: Materials in Electronics</i> , 2020 , 31, 2257-2268	2.1	11
71	Bacterial Cellulose and Polyester Hydrogel Matrices in Biotechnology and Biomedicine: Current Status and Future Prospects 2017 , 21-46		10
70	Nanofibrillated Cellulose and Copoly(amino acid) Hydrogel Matrices in Biotechnology and Biomedicine 2017 , 331-352		10
69	Exploration of gum ghatti-modified porous scaffolds for bone tissue engineering applications. <i>New Journal of Chemistry</i> , 2020 , 44, 2389-2401	3.6	10
68	Electrical Conductivity and Biological Efficacy of Ethyl Cellulose and Polyaniline-Based Composites 2018 , 181-197		10
67	Nanohydrogels: History, Development, and Applications in Drug Delivery 2017 , 297-330		9
66	Exploring the therapeutic potentials of phyto-mediated silver nanoparticles formed via <i>Calotropis procera</i> (Ait.) R. Br. root extract. <i>Journal of Experimental Nanoscience</i> , 2020 , 15, 217-231	1.9	9
65	Photocatalytic activity and antibacterial efficacy of titanium dioxide nanoparticles mediated by <i>Myristica fragrans</i> seed extract. <i>Chemical Physics Letters</i> , 2021 , 771, 138527	2.5	9
64	Nickel Nanoparticle-Modified Electrode for the Electrochemical Sensory Detection of Penicillin G in Bovine Milk Samples. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-11	3.2	9
63	Toxicity assessment of engineered MnZnS quantum dots in vitro. <i>Journal of Materials Science</i> , 2016 , 51, 9207-9216	4.3	8
62	Influence of slicing parameters on surface quality and mechanical properties of 3D-printed CF/PLA composites fabricated by FDM technique. <i>Materials Technology</i> , 1-18	2.1	8
61	Exploration of the antibacterial capacity and ethanol sensing ability of Cu-TiO ₂ nanoparticles. <i>Journal of Experimental Nanoscience</i> , 2020 , 15, 337-349	1.9	7
60	Larval and gut enzyme toxicity of n-hexane extract <i>Epaltes pygmaea</i> DC. against the arthropod vectors and its non-toxicity against aquatic predator. <i>Toxin Reviews</i> , 2020 , 1-11	2.3	7

59	Nanocellulose and Nanogels as Modern Drug Delivery Systems 2017 , 209-269		6
58	Comparison of sunlight-driven photocatalytic activity of semiconductor metal oxides of tin oxide and cadmium oxide nanoparticles. <i>Optik</i> , 2020 , 217, 164878	2.5	6
57	Mechanistic Exploration of Novel Spiropyrrolidine Heterocyclic Hybrids as Anticancer Agents. <i>Frontiers in Chemistry</i> , 2020 , 8, 465	5	6
56	Characterization of Novel Lignocellulosic Spinifex littoreus Fibers and Their Composites. <i>Journal of Bionic Engineering</i> , 2020 , 17, 393-404	2.7	6
55	Evaluation of porogen factors for the preparation of ion imprinted polymer monoliths used in mercury removal. <i>PLoS ONE</i> , 2018 , 13, e0195546	3.7	6
54	Ion Imprinted Polymer Monoliths as Adsorbent Materials for the Removal of Hg(II) from Real-Time Aqueous Samples. <i>Current Science</i> , 2017 , 113, 2282	2.2	6
53	Luteinizing hormone-releasing hormone targeted superparamagnetic gold nanoshells for a combination therapy of hyperthermia and controlled drug delivery. <i>Materials Science and Engineering C</i> , 2017 , 76, 692-700	8.3	5
52	Targeted hyperthermia-induced cancer cell death by superparamagnetic iron oxide nanoparticles conjugated to luteinizing hormone-releasing hormone. <i>Nanotechnology Reviews</i> , 2014 , 3,	6.3	5
51	Animal fiber characterization and fiber loading effect on mechanical behaviors of sheep wool fiber reinforced polyester composites. <i>Journal of Natural Fibers</i> , 2020 , 1-17	1.8	5
50	Electrochemical sensory detection of mtDNA for food adulteration using hybrid ferrocenylnaphthalene diimide intercalator as a hybridization indicator.. <i>RSC Advances</i> , 2020 , 10, 27336-27345	3.7	5
49	Nanoformulations of core-shell type hydroxyapatite-coated gum acacia with enhanced bioactivity and controlled drug delivery for biomedical applications. <i>New Journal of Chemistry</i> , 2020 , 44, 7175-7185	3.6	5
48	Drug delivery and antimicrobial studies of chitosan-alginate based hydroxyapatite bioscaffolds formed by the Casein micelle assisted synthesis. <i>Materials Chemistry and Physics</i> , 2021 , 272, 125019	4.4	5
47	Design, Synthesis and In Vitro Mechanistic Investigation of Novel Hexacyclic Cage-Like Hybrid Heterocycles. <i>Molecules</i> , 2019 , 24,	4.8	4
46	Histological analysis of anti-cancer drug loaded, targeted Mn:ZnS quantum dots in metastatic lesions of 4T1 challenged mice. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 138	4.5	4
45	Adsorption, Equilibrium Isotherm, and Thermodynamic Studies towards the Removal of Reactive Orange 16 Dye Using Cu(I)-Polyaniline Composite. <i>Polymers</i> , 2021 , 13,	4.5	4
44	Influence of sonication on the physicochemical and biological characteristics of selenium-substituted hydroxyapatites. <i>New Journal of Chemistry</i> , 2020 , 44, 17453-17464	3.6	4
43	Synthesis, growth, supramolecularity and antibacterial efficacy of 3,4-dimethoxybenzoic acid single crystals. <i>Chemical Physics Letters</i> , 2021 , 764, 138269	2.5	4
42	In-silico driven design and development of spirobenzimidazo-quinazolines as potential DNA gyrase inhibitors. <i>Biomedicine and Pharmacotherapy</i> , 2021 , 134, 111132	7.5	4

41	Drug Release Profiles of Mitomycin C Encapsulated Quantum Dots-Chitosan Nanocarrier System for the Possible Treatment of Non-Muscle Invasive Bladder Cancer. <i>Pharmaceutics</i> , 2021 , 13,	6.4	4
40	Synthesis, characterization, and electrical properties of alkali earth metal-doped bioceramics. <i>Materials Chemistry and Physics</i> , 2020 , 249, 123141	4.4	3
39	Docking and in vitro molecular biology studies of p-anisidine-appended 1-hydroxy-2-acetonaphthanone Schiff base lanthanum(III) complexes. <i>RSC Advances</i> , 2020 , 10, 16457-16472	2.7	3
38	Functionalized N-Pyridinylmethyl Engrafted Bisarylmethylidenepyridinones as Anticancer Agents. <i>Processes</i> , 2020 , 8, 1154	2.9	3
37	Characterization and optimization of influence of MoS ₂ hybridization on tribological behaviours of MgB ₄ C composites. <i>Bulletin of Materials Science</i> , 2021 , 44, 1	1.7	3
36	D-Ring-Modified Analogues of Luotonin A with Reduced Planarity: Design, Synthesis, and Evaluation of Their Topoisomerase Inhibition-Associated Cytotoxicity. <i>BioMed Research International</i> , 2019 , 2019, 2514524	3	3
35	Bacterial Nanocellulose Applications for Tissue Engineering 2017 , 47-66		2
34	Preparation, Characterization, and Radiolabeling of [Ga]Ga-NODAGA-Pamidronic Acid: A Potential PET Bone Imaging Agent. <i>Molecules</i> , 2020 , 25,	4.8	2
33	Enhanced properties of cadmium mercury thiocyanate bis(N-methyl formamide): A promising non-linear optical crystal. <i>Chinese Journal of Physics</i> , 2020 , 67, 52-62	3.5	2
32	Drug delivery and in vitro biological effects of gum ghatti-modified hydroxyapatite nanoporous composites. <i>Materials Chemistry and Physics</i> , 2021 , 263, 124385	4.4	2
31	Experimental and simulation analysis on multi-gate variants in sand casting process. <i>Journal of Manufacturing Processes</i> , 2021 , 62, 119-131	5	2
30	Electrochemical Measurements of Multiwalled Carbon Nanotubes under Different Plasma Treatments. <i>Materials</i> , 2018 , 11,	3.5	2
29	Experimental investigation and statistical analysis of additively manufactured onyx-carbon fiber reinforced composites. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50338	2.9	2
28	Fabrication of magnetite nanomaterials employing novel ionic liquids for efficient oil spill cleanup.. <i>Journal of Environmental Management</i> , 2022 , 316, 115194	7.9	2
27	Hydrogels Based on Nanocellulose and Chitosan: Preparation, Characterization, and Properties 2017 , 125-138		1
26	Synthesis, Characterization, and Application of Poly(4,4'-Cyclohexylidene Bisphenol Oxalate) for Solid-Phase Extraction of DNA. <i>BioMed Research International</i> , 2019 , 2019, 7064073	3	1
25	Schiff-base derived chitosan impregnated copper oxide nanoparticles: An effective photocatalyst in direct sunlight. <i>Materials Science in Semiconductor Processing</i> , 2020 , 119, 105238	4.3	1
24	High-Efficiency DNA Extraction Using Poly(4,4'-Cyclohexylidene Bisphenol Oxalate)-Modified Microcrystalline Cellulose-Magnetite Composite. <i>International Journal of Polymer Science</i> , 2019 , 2019, 1-10	2.4	1

23	Investigation into Mechanical, Thermal and Water Absorption Behaviors of Cocos nucifera Shell Filler Reinforced Vinyl Ester Polymeric Composites. <i>Journal of Polymers and the Environment</i> ,1	4.5	1
22	Surface-Enhanced Biocompatibility and Adsorption Capacity of a Zirconium Phosphate-Coated Polyaniline Composite.. <i>ACS Omega</i> , 2021 , 6, 33614-33626	3.9	1
21	Characterization of Acacia caesia Bark Fibers (ACBFs). <i>Journal of Natural Fibers</i> ,1-12	1.8	1
20	A One-Pot Three-Component Synthesis and Investigation of the In Vitro Mechanistic Anticancer Activity of Highly Functionalized Spirooxindole-Pyrrolidine Heterocyclic Hybrids. <i>Molecules</i> , 2020 , 25,	4.8	1
19	Influence of graphene concentration towards the thermo-acoustic and vibrational properties of graphene: polyvinyl alcohol composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 10359-10367	2.1	1
18	Bone tissue engineering potentials of 3D printed magnesium-hydroxyapatite in polylactic acid composite scaffolds. <i>Artificial Organs</i> , 2021 , 45, 1501-1512	2.6	1
17	Facile fabrication of Au-loaded CdO nanoconstructs with tuned properties for photocatalytic and biomedical applications. <i>Journal of Nanostructure in Chemistry</i> ,1	7.6	1
16	Star fruit extract-mediated green synthesis of metal oxide nanoparticles. <i>Inorganic and Nano-Metal Chemistry</i> ,1-8	1.2	1
15	Influence of Ultrasonic Vibration towards the Microstructure Refinement and Particulate Distribution of AA7150-B4C Nanocomposites. <i>Coatings</i> , 2022 , 12, 365	2.9	1
14	Enhanced Electrochemical Conductivity of Surface-Coated Gold Nanoparticles/Copper Nanowires onto Screen-Printed Gold Electrode. <i>Coatings</i> , 2022 , 12, 622	2.9	1
13	Chitosan-Mediated Layer-by-Layer Assembling Approach for the Fabrication of Biomedical Probes and Advancement of Nanomedicine 2017 , 91-124		0
12	Tensile Properties and Fracture Morphology of Acacia Caesia Bark Fibers Treated with Different Alkali Concentrations. <i>Journal of Natural Fibers</i> ,1-12	1.8	0
11	Nanocomposite cotton gauze cloth with in situ generated silver, copper and their binary metal nanoparticles by bioreduction method. <i>Inorganic and Nano-Metal Chemistry</i> ,1-8	1.2	0
10	Influence of Amidation on the Release Profiles of Insulin Drug from Chitosan-Based Matrices. <i>Coatings</i> , 2022 , 12, 465	2.9	0
9	Conducting Polymer Hydrogels: Synthesis, Properties, and Applications for Biosensors 2017 , 175-208		
8	Recent Advances on Inhibitors of Apoptosis Proteins (IAP) Particularly with Reference to Patents 2017 , 271-296		
7	Cellulose-Based Nanohydrogels for Tissue Engineering Applications 2017 , 67-90		
6	Applicability of Angular Orientations of Gating Designs to Quality of Sand Casting Components Using Two-Cavity Mould Set-Up. <i>Transactions of the Indian Institute of Metals</i> ,1	1.2	

5	One-Pot Four Component Reaction for the Synthesis of 1-(1H-Indol-2-yl)-1H-pyrazolo[1,2-b]phthalazine-5,10-dione Derivatives by Self-Catalysis. <i>Heterocycles</i> , 2017 , 94, 1567	0.8
4	In Vitro Molecular Biology Studies of Spirooxindole Heterocyclic Hybrids. <i>Processes</i> , 2020 , 8, 1473	2.9
3	Effects of sand and gating architecture on the performance of foot valve lever casting components used in pump industries. <i>Journal of Materials Research and Technology</i> , 2021 , 15, 1653-1666	5.5
2	Effects of Moisture Absorption and Thickness Swelling Behaviors on Mechanical Performances of Carica Papaya Fiber Reinforced Polymeric Composites. <i>Journal of Natural Fibers</i> , 1-20	1.8
1	Extraction and Characterization of Natural Cellulosic Erythrina variegata Fiber for Biocomposites. <i>Journal of Natural Fibers</i> , 1-12	1.8