

# Faruq Mohammad

## List of Publications by Year in Descending Order

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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.

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	Influence of Ultrasonic Vibration towards the Microstructure Refinement and Particulate Distribution of AA7150-B4C Nanocomposites. <i>Coatings</i> , <b>2022</b> , 12, 365	2.9	1
111	Influence of Amidation on the Release Profiles of Insulin Drug from Chitosan-Based Matrices. <i>Coatings</i> , <b>2022</b> , 12, 465	2.9	0
110	Enhanced Electrochemical Conductivity of Surface-Coated Gold Nanoparticles/Copper Nanowires onto Screen-Printed Gold Electrode. <i>Coatings</i> , <b>2022</b> , 12, 622	2.9	1
109	Fabrication of magnetite nanomaterials employing novel ionic liquids for efficient oil spill cleanup.. <i>Journal of Environmental Management</i> , <b>2022</b> , 316, 115194	7.9	2
108	Surface-Enhanced Biocompatibility and Adsorption Capacity of a Zirconium Phosphate-Coated Polyaniline Composite.. <i>ACS Omega</i> , <b>2021</b> , 6, 33614-33626	3.9	1
107	Adsorption, Equilibrium Isotherm, and Thermodynamic Studies towards the Removal of Reactive Orange 16 Dye Using Cu(I)-Polyaniline Composite. <i>Polymers</i> , <b>2021</b> , 13,	4.5	4
106	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> , <b>2021</b> , 32, 10359-10367	2.1	1
105	Drug delivery and in vitro biological effects of gum ghatti-modified hydroxyapatite nanoporous composites. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 263, 124385	4.4	2
104	Photocatalytic activity and antibacterial efficacy of titanium dioxide nanoparticles mediated by Myristica fragrans seed extract. <i>Chemical Physics Letters</i> , <b>2021</b> , 771, 138527	2.5	9
103	Characterization and optimization of influence of MoS <sub>2</sub> hybridization on tribological behaviours of MgB <sub>4</sub> C composites. <i>Bulletin of Materials Science</i> , <b>2021</b> , 44, 1	1.7	3
102	Bone tissue engineering potentials of 3D printed magnesium-hydroxyapatite in polylactic acid composite scaffolds. <i>Artificial Organs</i> , <b>2021</b> , 45, 1501-1512	2.6	1
101	Influence of iron doping towards the physicochemical and biological characteristics of hydroxyapatite. <i>Ceramics International</i> , <b>2021</b> , 47, 5061-5070	5.1	14
100	Synthesis, growth, supramolecularity and antibacterial efficacy of 3,4-dimethoxybenzoic acid single crystals. <i>Chemical Physics Letters</i> , <b>2021</b> , 764, 138269	2.5	4
99	In-silico driven design and development of spirobenzimidazo-quinazolines as potential DNA gyrase inhibitors. <i>Biomedicine and Pharmacotherapy</i> , <b>2021</b> , 134, 111132	7.5	4
98	Experimental and simulation analysis on multi-gate variants in sand casting process. <i>Journal of Manufacturing Processes</i> , <b>2021</b> , 62, 119-131	5	2
97	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> , <b>2021</b> , 13,	6.4	4
96	Drug delivery and antimicrobial studies of chitosan-alginate based hydroxyapatite bioscaffolds formed by the Casein micelle assisted synthesis. <i>Materials Chemistry and Physics</i> , <b>2021</b> , 272, 125019	4.4	5

95	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> , <b>2021</b> , 15, 1653-1666	5.5	
94	Experimental investigation and statistical analysis of additively manufactured onyx-carbon fiber reinforced composites. <i>Journal of Applied Polymer Science</i> , <b>2021</b> , 138, 50338	2.9	2
93	Synthesis, characterization, and electrical properties of alkali earth metal-doped bioceramics. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 249, 123141	4.4	3
92	Comparison of sunlight-driven photocatalytic activity of semiconductor metal oxides of tin oxide and cadmium oxide nanoparticles. <i>Optik</i> , <b>2020</b> , 217, 164878	2.5	6
91	Preparation, Characterization, and Radiolabeling of [Ga]Ga-NODAGA-Pamidronic Acid: A Potential PET Bone Imaging Agent. <i>Molecules</i> , <b>2020</b> , 25,	4.8	2
90	Mechanistic Exploration of Novel Spiropyrrolidine Heterocyclic Hybrids as Anticancer Agents. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 465	5	6
89	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> , <b>2020</b> , 222, 105474	5.1	13
88	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> , <b>2020</b> , 15, 217-231	1.9	9
87	Schiff-base derived chitosan impregnated copper oxide nanoparticles: An effective photocatalyst in direct sunlight. <i>Materials Science in Semiconductor Processing</i> , <b>2020</b> , 119, 105238	4.3	1
86	Evaluation of the photocatalytic efficiency of cobalt oxide nanoparticles towards the degradation of crystal violet and methylene violet dyes. <i>Optik</i> , <b>2020</b> , 207, 164428	2.5	31
85	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> , <b>2020</b> , 126, 1	2.6	12
84	Exploration of gum ghatti-modified porous scaffolds for bone tissue engineering applications. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 2389-2401	3.6	10
83	Comparative studies of crystal violet dye removal between semiconductor nanoparticles and natural adsorbents. <i>Optik</i> , <b>2020</b> , 206, 164281	2.5	18
82	Docking and in vitro molecular biology studies of p-anisidine-appended 1-hydroxy-2-acetonaphthanone Schiff base lanthanum(III) complexes. <i>RSC Advances</i> , <b>2020</b> , 10, 16457-16472	2.7	3
81	Characterization of Novel Lignocellulosic <i>Spinifex littoreus</i> Fibers and Their Composites. <i>Journal of Bionic Engineering</i> , <b>2020</b> , 17, 393-404	2.7	6
80	Enhanced properties of cadmium mercury thiocyanate bis(N-methyl formamide): A promising non-linear optical crystal. <i>Chinese Journal of Physics</i> , <b>2020</b> , 67, 52-62	3.5	2
79	Fabrication of nitrogen-rich graphitic carbon nitride/Cu <sub>2</sub> O (g-C <sub>3</sub> N <sub>4</sub> @Cu <sub>2</sub> O) composite and its enhanced photocatalytic activity for organic pollutants degradation. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 2257-2268	2.1	11
78	Functionalized N-Pyridinylmethyl Engrafted Bisarylmethylenepyridinones as Anticancer Agents. <i>Processes</i> , <b>2020</b> , 8, 1154	2.9	3

77	Evaluation of mechanical, thermal and water absorption behaviors of Polyalthia longifolia seed reinforced vinyl ester composites. <i>Carbohydrate Polymers</i> , <b>2020</b> , 248, 116748	10.3	24
76	An overview of endurance and ageing performance under various environmental conditions of hybrid polymer composites. <i>Journal of Materials Research and Technology</i> , <b>2020</b> , 9, 15962-15988	5.5	20
75	In Vitro Molecular Biology Studies of Spirooxindole Heterocyclic Hybrids. <i>Processes</i> , <b>2020</b> , 8, 1473	2.9	
74	Animal fiber characterization and fiber loading effect on mechanical behaviors of sheep wool fiber reinforced polyester composites. <i>Journal of Natural Fibers</i> , <b>2020</b> , 1-17	1.8	5
73	Exploration of the antibacterial capacity and ethanol sensing ability of Cu-TiO <sub>2</sub> nanoparticles. <i>Journal of Experimental Nanoscience</i> , <b>2020</b> , 15, 337-349	1.9	7
72	Electrochemical sensory detection of mtDNA for food adulteration using hybrid ferrocenylnaphthalene diimide intercalator as a hybridization indicator.. <i>RSC Advances</i> , <b>2020</b> , 10, 27336-27345	2.7	5
71	Influence of sonication on the physicochemical and biological characteristics of selenium-substituted hydroxyapatites. <i>New Journal of Chemistry</i> , <b>2020</b> , 44, 17453-17464	3.6	4
70	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> , <b>2020</b> , 25,	4.8	1
69	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> , <b>2020</b> , 44, 7175-7185	3.6	5
68	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> , <b>2020</b> , 1-11	2.3	7
67	Synthesis, Characterization, and Application of Poly(4,4'-Cyclohexylidene Bisphenol Oxalate) for Solid-Phase Extraction of DNA. <i>BioMed Research International</i> , <b>2019</b> , 2019, 7064073	3	1
66	Biocompatible polylactic acid-reinforced nickel-arsenate composite: Studies of electrochemical conductivity, mechanical stability, and cell viability. <i>Materials Science and Engineering C</i> , <b>2019</b> , 102, 142-149	8.3	12
65	Spirooxindole-pyrrolidine heterocyclic hybrids promotes apoptosis through activation of caspase-3. <i>Bioorganic and Medicinal Chemistry</i> , <b>2019</b> , 27, 2487-2498	3.4	14
64	Enhanced biosorption and electrochemical performance of sugarcane bagasse derived a polylactic acid-graphene oxide-CeO <sub>2</sub> composite. <i>Materials Chemistry and Physics</i> , <b>2019</b> , 229, 117-123	4.4	23
63	High-Efficiency DNA Extraction Using Poly(4,4'-Cyclohexylidene Bisphenol Oxalate)-Modified Microcrystalline Cellulose-Magnetite Composite. <i>International Journal of Polymer Science</i> , <b>2019</b> , 2019, 1-10	2.4	1
62	Design, Synthesis and In Vitro Mechanistic Investigation of Novel Hexacyclic Cage-Like Hybrid Heterocycles. <i>Molecules</i> , <b>2019</b> , 24,	4.8	4
61	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> , <b>2019</b> , 2019, 2514524	3	3
60	Nickel Nanoparticle-Modified Electrode for the Electrochemical Sensory Detection of Penicillin G in Bovine Milk Samples. <i>Journal of Nanomaterials</i> , <b>2019</b> , 2019, 1-11	3.2	9

59	Synthesis, Characterization and Applications of Ethyl Cellulose-Based Polymeric Calcium(II) Hydrogen Phosphate Composite. <i>Journal of Electronic Materials</i> , <b>2018</b> , 47, 2954-2963	1.9	14
58	Iminodiacetic acid modified kenaf fiber for waste water treatment. <i>International Journal of Biological Macromolecules</i> , <b>2018</b> , 112, 754-760	7.9	25
57	Electrical Conductivity and Biological Efficacy of Ethyl Cellulose and Polyaniline-Based Composites <b>2018</b> , 181-197		10
56	Immuno Nanosensor for the Ultrasensitive Naked Eye Detection of Tuberculosis. <i>Sensors</i> , <b>2018</b> , 18,	3.8	17
55	Evaluation of porogen factors for the preparation of ion imprinted polymer monoliths used in mercury removal. <i>PLoS ONE</i> , <b>2018</b> , 13, e0195546	3.7	6
54	Highly Functionalized pyrrolidine analogues: stereoselective synthesis and caspase-dependent apoptotic activity.. <i>RSC Advances</i> , <b>2018</b> , 8, 41226-41236	3.7	14
53	Electrochemical Measurements of Multiwalled Carbon Nanotubes under Different Plasma Treatments. <i>Materials</i> , <b>2018</b> , 11,	3.5	2
52	Mechanical, morphological and structural properties of cellulose nanofibers reinforced epoxy composites. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 97, 190-200	7.9	107
51	Conducting Polymer Hydrogels: Synthesis, Properties, and Applications for Biosensors <b>2017</b> , 175-208		
50	Hydrogels Based on Nanocellulose and Chitosan: Preparation, Characterization, and Properties <b>2017</b> , 125-138		1
49	Bacterial Cellulose and Polyester Hydrogel Matrices in Biotechnology and Biomedicine: Current Status and Future Prospects <b>2017</b> , 21-46		10
48	Nanocellulose and Nanogels as Modern Drug Delivery Systems <b>2017</b> , 209-269		6
47	Thermal and dynamic mechanical properties of cellulose nanofibers reinforced epoxy composites. <i>International Journal of Biological Macromolecules</i> , <b>2017</b> , 102, 822-828	7.9	146
46	Application of Nanocellulose for Controlled Drug Delivery <b>2017</b> , 1-19		11
45	Recent Advances on Inhibitors of Apoptosis Proteins (IAP) Particularly with Reference to Patents <b>2017</b> , 271-296		
44	Nanohydrogels: History, Development, and Applications in Drug Delivery <b>2017</b> , 297-330		9
43	Nanofibrillated Cellulose and Copoly(amino acid) Hydrogel Matrices in Biotechnology and Biomedicine <b>2017</b> , 331-352		10
42	Cellulose-Based Nanohydrogels for Tissue Engineering Applications <b>2017</b> , 67-90		

41	Cellulose Nanocrystals and PEO/PET Hydrogel Material in Biotechnology and Biomedicine: Current Status and Future Prospects <b>2017</b> , 139-173		11
40	Bacterial Nanocellulose Applications for Tissue Engineering <b>2017</b> , 47-66		2
39	Chitosan-Mediated Layer-by-Layer Assembling Approach for the Fabrication of Biomedical Probes and Advancement of Nanomedicine <b>2017</b> , 91-124		0
38	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> , <b>2017</b> , 76, 692-700	8.3	5
37	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> , <b>2017</b> , 28, 138	4.5	4
36	Sustained drug release and electrochemical performance of ethyl cellulose-magnesium hydrogen phosphate composite. <i>Materials Science and Engineering C</i> , <b>2017</b> , 71, 735-743	8.3	32
35	Enhanced biological activity and biosorption performance of trimethyl chitosan-loaded cerium oxide particles. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 45, 33-43	6.3	56
34	Thiolate-Capped CdSe/ZnS Core-Shell Quantum Dots for the Sensitive Detection of Glucose. <i>Sensors</i> , <b>2017</b> , 17,	3.8	12
33	Ion Imprinted Polymer Monoliths as Adsorbent Materials for the Removal of Hg(II) from Real-Time Aqueous Samples. <i>Current Science</i> , <b>2017</b> , 113, 2282	2.2	6
32	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> , <b>2017</b> , 94, 1567	0.8	
31	Development of PANI/MWCNTs decorated with cobalt oxide nanoparticles towards multiple electrochemical, photocatalytic and biomedical application sites. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 9448-9459	3.6	43
30	Electrochemical sensor for the sensitive detection of o-nitrophenol using graphene oxide-poly(ethyleneimine) dendrimer-modified glassy carbon electrode. <i>Graphene Technology</i> , <b>2016</b> , 1, 1-15	1.8	27
29	Toxicity assessment of engineered Mn/ZnS quantum dots in vitro. <i>Journal of Materials Science</i> , <b>2016</b> , 51, 9207-9216	4.3	8
28	Chitosan-mediated fabrication of metal nanocomposites for enhanced biomedical applications. <i>Advanced Materials Letters</i> , <b>2016</b> , 8, 89-100	2.4	23
27	Folic acid targeted Mn:ZnS quantum dots for theranostic applications of cancer cell imaging and therapy. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 413-28	7.3	56
26	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> , <b>2016</b> , 480, 146-158	9.3	47
25	Removal of toxic mercury from petroleum oil by newly synthesized molecularly-imprinted polymer. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 10562-77	6.3	20
24	Feature decision-making ant colony optimization system for an automated recognition of plant species. <i>Expert Systems With Applications</i> , <b>2015</b> , 42, 2361-2370	7.8	73

23	Esterified Coconut Coir by Fatty Acid Chloride as Biosorbent in Oil Spill Removal. <i>BioResources</i> , <b>2015</b> , 10,	1.3	12
22	Electrical Conductivity, Mechanical Stability, Antibacterial And Anticancer Activities Of Ethyl Cellulose-Tin(II) Hydrogen Phosphate. <i>Advanced Materials Letters</i> , <b>2015</b> , 6, 1058-1065	2.4	14
21	Doxorubicin-loaded magnetic gold nanoshells for a combination therapy of hyperthermia and drug delivery. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 434, 89-97	9.3	35
20	Surface ligand influenced free radical protection of superparamagnetic iron oxide nanoparticles (SPIONs) toward H9c2 cardiac cells. <i>Journal of Materials Science</i> , <b>2014</b> , 49, 6290-6301	4.3	12
19	Targeted hyperthermia-induced cancer cell death by superparamagnetic iron oxide nanoparticles conjugated to luteinizing hormone-releasing hormone. <i>Nanotechnology Reviews</i> , <b>2014</b> , 3,	6.3	5
18	Thermodynamics And Electrochemical Characterization Of Core-shell Type Gold-coated Superparamagnetic Iron Oxide Nanoparticles. <i>Advanced Materials Letters</i> , <b>2014</b> , 5, 315-324	2.4	17
17	DC electrical conductivity of nano-composite polystyrene/titanium/arsenate membrane. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2013</b> , 19, 2046-2051	6.3	26
16	Cytotoxic effects of polystyrene-titanium-arsenate composite in cultured H9c2 cardiomyoblasts. <i>Bulletin of Environmental Contamination and Toxicology</i> , <b>2013</b> , 91, 689-96	2.7	27
15	Giant magnetostriction in magnetite nanoparticles. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2012</b> , 177, 14-18	3.1	16
14	Catalytic Activity of Titania-Supported Core/Shell Fe <sub>3</sub> O <sub>4</sub> @Au Nano-Catalysts for CO Oxidation. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 22319-22326	3.8	15
13	Magnetic nanomaterials for hyperthermia-based therapy and controlled drug delivery. <i>Advanced Drug Delivery Reviews</i> , <b>2011</b> , 63, 789-808	18.5	1150
12	Influence of Gold Nanoshell on Hyperthermia of Super Paramagnetic Iron Oxide Nanoparticles (SPIONs). <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 19194-19201	3.8	110
11	Magnetic Gold Nanoshells: Step-wise Changing of Magnetism through Step-wise Biofunctionalization. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 3141-3146	6.4	18
10	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
9	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
8	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	
7	Characterization of Acacia caesia Bark Fibers (ACBFs). <i>Journal of Natural Fibers</i> , 1-12	1.8	1
6	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

5	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
4	Star fruit extract-mediated green synthesis of metal oxide nanoparticles. <i>Inorganic and Nano-Metal Chemistry</i> ,1-8	1.2	1
3	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
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	