

# Sajjad Haider

## List of Publications by Year in descending order

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105  
papers

5,640  
citations

94433

37  
h-index

79698

73  
g-index

107  
all docs

107  
docs citations

107  
times ranked

6664  
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review summarizing the effect of electrospinning parameters and potential applications of nanofibers in biomedical and biotechnology. <i>Arabian Journal of Chemistry</i> , 2018, 11, 1165-1188.	4.9	1,136
2	Preparation of amidoxime-modified polyacrylonitrile (PAN-oxime) nanofibers and their applications to metal ions adsorption. <i>Journal of Membrane Science</i> , 2008, 322, 400-405.	8.2	417
3	Preparation of the electrospun chitosan nanofibers and their applications to the adsorption of Cu(II) and Pb(II) ions from an aqueous solution. <i>Journal of Membrane Science</i> , 2009, 328, 90-96.	8.2	380
4	Simultaneous electrochemical determination of dopamine and acetaminophen using multiwall carbon nanotubes modified glassy carbon electrode. <i>Sensors and Actuators B: Chemical</i> , 2010, 146, 314-320.	7.8	272
5	Recent advances in the synthesis, functionalization and biomedical applications of hydroxyapatite: a review. <i>RSC Advances</i> , 2017, 7, 7442-7458.	3.6	261
6	Manganese-, cobalt-, and zinc-based mixed-oxide spinels as novel catalysts for the chemical recycling of poly(ethylene terephthalate) via glycolysis. <i>Polymer Degradation and Stability</i> , 2013, 98, 904-915.	5.8	190
7	Binder free mesoporous Ag-doped Co <sub>3</sub> O <sub>4</sub> nanosheets with outstanding cyclic stability and rate capability for advanced supercapacitor applications. <i>Journal of Alloys and Compounds</i> , 2020, 844, 156062.	5.5	146
8	Superior electrochemical activity of $\text{Fe}_2\text{O}_3/\text{rGO}$ nanocomposite for advance energy storage devices. <i>Journal of Alloys and Compounds</i> , 2016, 689, 648-654.	5.5	144
9	Natural polymers supported copper nanoparticles for pollutants degradation. <i>Applied Surface Science</i> , 2016, 387, 1154-1161.	6.1	131
10	Highly aligned narrow diameter chitosan electrospun nanofibers. <i>Journal of Polymer Research</i> , 2013, 20, 1.	2.4	130
11	Advances in the scaffolds fabrication techniques using biocompatible polymers and their biomedical application: A technical and statistical review. <i>Journal of Saudi Chemical Society</i> , 2020, 24, 186-215.	5.2	111
12	Copper doped manganese ferrites nanoparticles anchored on graphene nano-sheets for high performance energy storage applications. <i>Journal of Alloys and Compounds</i> , 2017, 695, 881-887.	5.5	100
13	A novel use of cellulose based filter paper containing silver nanoparticles for its potential application as wound dressing agent. <i>International Journal of Biological Macromolecules</i> , 2018, 108, 455-461.	7.5	93
14	Graphene oxide and reduced graphene oxide supported ZnO nanochips for removal of basic dyes from the industrial effluents. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2021, 29, 915-928.	2.1	90
15	Thin layer chitosan-coated cellulose filter paper as substrate for immobilization of catalytic cobalt nanoparticles. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 56-62.	7.5	86
16	Thermal decomposition of metal complex precursor as route to the synthesis of Co <sub>3</sub> O <sub>4</sub> nanoparticles: Antibacterial activity and mechanism. <i>Journal of Alloys and Compounds</i> , 2017, 704, 296-302.	5.5	77
17	Swelling and electroresponsive characteristics of gelatin immobilized onto multi-walled carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , 2007, 124, 517-528.	7.8	72
18	Biocompatible Polymers and their Potential Biomedical Applications: A Review. <i>Current Pharmaceutical Design</i> , 2019, 25, 3608-3619.	1.9	65

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19	Novel functional antimicrobial and biocompatible arabinoxylan/guar gum hydrogel for skin wound dressing applications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2020, 14, 1488-1501.	2.7	59
20	Development of porous, antibacterial and biocompatible GO/n-HAp/bacterial cellulose/ $\beta$ -D-glucan biocomposite scaffold for bone tissue engineering. <i>Arabian Journal of Chemistry</i> , 2021, 14, 102924.	4.9	59
21	In situ Polymerization of Multi-Walled Carbon Nanotube/Nylon-6 Nanocomposites and Their Electrospun Nanofibers. <i>Nanoscale Research Letters</i> , 2009, 4, 39-46.	5.7	57
22	Smart and pH-sensitive rGO/Arabinoxylan/chitosan composite for wound dressing: In-vitro drug delivery, antibacterial activity, and biological activities. <i>International Journal of Biological Macromolecules</i> , 2021, 192, 820-831.	7.5	57
23	Synthesis of sponge like Gd <sup>3+</sup> doped vanadium oxide/2D MXene composites for improved degradation of industrial effluents and pathogens. <i>Ceramics International</i> , 2022, 48, 1969-1980.	4.8	55
24	Chitosan/Poly Vinyl Alcohol/Graphene Oxide Based pH-Responsive Composite Hydrogel Films: Drug Release, Anti-Microbial and Cell Viability Studies. <i>Polymers</i> , 2021, 13, 3124.	4.5	53
25	Arabinoxylan-co-AA/HAp/TiO <sub>2</sub> nanocomposite scaffold a potential material for bone tissue engineering: An in vitro study. <i>International Journal of Biological Macromolecules</i> , 2020, 151, 584-594.	7.5	51
26	Erbium-substituted Ni <sub>0.4</sub> Co <sub>0.6</sub> Fe <sub>2</sub> O <sub>4</sub> ferrite nanoparticles and their hybrids with reduced graphene oxide as magnetically separable powder photocatalyst. <i>Ceramics International</i> , 2020, 46, 1203-1210.	4.8	50
27	Fabrication and characterization of zinc oxide nanofibers for renewable energy applications. <i>Arabian Journal of Chemistry</i> , 2017, 10, S1067-S1072.	4.9	48
28	Investigation of structural and magnetic properties of Zr-Co doped nickel ferrite nanomaterials. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 429, 142-147.	2.3	46
29	Preparation of the chitosan containing nanofibers by electrospinning chitosan-gelatin complexes. <i>Polymer Engineering and Science</i> , 2010, 50, 1887-1893.	3.1	44
30	Preparation, swelling and electro-mechano-chemical behaviors of a gelatin-chitosan blend membrane. <i>Soft Matter</i> , 2008, 4, 485.	2.7	43
31	Utilization of electron-deficient thiadiazole derivatives as $\pi$ -spacer for the red shifting of absorption maxima of diarylamine-fluorene based dyes. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	1.4	43
32	Spectrophotometric methods for the determination of urea in real samples using silver nanoparticles by standard addition and 2nd order derivative methods. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 189, 110-115.	3.9	43
33	The impact of carbon nanotubes on the optical, electrical, and magnetic parameters of Ni <sup>2+</sup> and Co <sup>2+</sup> -based spinel ferrites. <i>Ceramics International</i> , 2019, 45, 21150-21161.	4.8	43
34	Nanostructured V <sub>2</sub> O <sub>5</sub> and its nanohybrid with MXene as an efficient electrode material for electrochemical capacitor applications. <i>Ceramics International</i> , 2022, 48, 2345-2354.	4.8	42
35	Structural, magnetic and dielectric properties of Yb <sup>3+</sup> doped BaCo-X hexagonal nanoferrites. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3674-3681.	5.5	41
36	Ultra-selective detection of Cd <sup>2+</sup> and Pb <sup>2+</sup> using glycine functionalized reduced graphene oxide/polyaniline nanocomposite electrode. <i>Synthetic Metals</i> , 2019, 257, 116185.	3.9	40

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37	Adsorption kinetic and isotherm of methylene blue, safranin T and rhodamine B onto electrospun ethylenediamine-grafted-polyacrylonitrile nanofibers membrane. <i>Desalination and Water Treatment</i> , 2015, 55, 1609-1619.	1.0	39
38	Preparation of the chitosan/polyacrylonitrile semi-IPN hydrogel via glutaraldehyde vapors for the removal of Rhodamine B dye. <i>Polymer Bulletin</i> , 2017, 74, 1535-1551.	3.3	39
39	Sodium alginate-f-GO composite hydrogels for tissue regeneration and antitumor applications. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 475-485.	7.5	39
40	Novel route for amine grafting to chitosan electrospun nanofibers membrane for the removal of copper and lead ions from aqueous medium. <i>Carbohydrate Polymers</i> , 2018, 199, 406-414.	10.2	37
41	Spectrofluorimetric determination of fexofenadine hydrochloride in pharmaceutical preparation using silver nanoparticles. <i>Arabian Journal of Chemistry</i> , 2010, 3, 251-255.	4.9	35
42	Synthesis, Characterization, Photocatalysis, and Antibacterial Study of WO <sub>3</sub> , MXene and WO <sub>3</sub> /MXene Nanocomposite. <i>Nanomaterials</i> , 2022, 12, 713.	4.1	34
43	A novel route for the preparation of thermally sensitive core-shell magnetic nanoparticles. <i>Polymer</i> , 2011, 52, 91-97.	3.8	31
44	Zr <sub>x</sub> Co <sub>0.8-<i>x</i></sub> Ni <sub>0.2-<i>x</i></sub> Fe <sub>2</sub> O <sub>4</sub> -graphene nanocomposite for enhanced structural, dielectric and visible light photocatalytic applications. <i>Ceramics International</i> , 2016, 42, 15747-15755.	4.8	31
45	Low cost micro-emulsion route synthesis of Cr-substituted MnFe <sub>2</sub> O <sub>4</sub> nanoparticles. <i>Ceramics International</i> , 2019, 45, 22316-22323.	4.8	31
46	Adsorption removal of Congo red onto L-cysteine/rGO/PANI nanocomposite: equilibrium, kinetics and thermodynamic studies. <i>Journal of Taibah University for Science</i> , 2021, 15, 50-62.	2.5	29
47	Electrospun oxime-grafted-polyacrylonitrile nanofiber membrane and its application to the adsorption of dyes. <i>Journal of Polymer Research</i> , 2014, 21, 1.	2.4	28
48	Arabinoxylan/graphene oxide/nHAp NPs/PVA bionano composite scaffolds for fractured bone healing. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, 15, 322-335.	2.7	28
49	Engineered nanostructures: A review of their synthesis, characterization and toxic hazard considerations. <i>Arabian Journal of Chemistry</i> , 2017, 10, S376-S388.	4.9	23
50	Self-Supporting Design of NiS/CNTs Nanohybrid for Advanced Electrochemical Energy Storage Applications. <i>Journal of Cluster Science</i> , 2022, 33, 2113-2121.	3.3	23
51	An Efficient Approach to Address Issues of Graphene Nanoplatelets (GNPs) Incorporation in Aluminium Powders and Their Compaction Behaviour. <i>Metals</i> , 2018, 8, 90.	2.3	22
52	Biochar/polypropylene composites: A study on the effect of pyrolysis temperature on crystallization kinetics, crystalline structure, and thermal stability. <i>Journal of King Saud University - Science</i> , 2021, 33, 101409.	3.5	22
53	Adsorption of bromo-phenol blue from an aqueous solution onto thermally modified granular charcoal. <i>Chemical Engineering Research and Design</i> , 2011, 89, 23-28.	5.6	21
54	Thermal, swelling and stability kinetics of chitosan based semi-interpenetrating network hydrogels. <i>Fibers and Polymers</i> , 2017, 18, 611-618.	2.1	18

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55	Synthesis of chitosan based semi-IPN hydrogels using epichlorohydrine as crosslinker to study the adsorption kinetics of Rhodamine B. <i>Desalination and Water Treatment</i> , 2016, 57, 17523-17536.	1.0	17
56	TiO <sub>2</sub> nanostructured coated functionally modified and composite electrospun chitosan nanofibers membrane for efficient photocatalytic degradation of organic pollutant in wastewater. <i>Journal of Materials Research and Technology</i> , 2021, 15, 5197-5212.	5.8	17
57	Structural, spectral, dielectric and photocatalytic studies of Zr-Ni doped MnFe <sub>2</sub> O <sub>4</sub> co-precipitated nanoparticles. <i>Ceramics International</i> , 2016, 42, 13459-13463.	4.8	16
58	Efficient Photocatalytic Degradation of Organic Pollutant in Wastewater by Electrospun Functionally Modified Polyacrylonitrile Nanofibers Membrane Anchoring TiO <sub>2</sub> Nanostructured Membranes, 2021, 11, 785.	3.0	16
59	First principles study of transition metals doped SiC for application as counter electrode in DSSC. <i>Surface Science</i> , 2019, 687, 41-47.	1.9	15
60	Microemulsified Gel Formulations for Topical Delivery of Clotrimazole: Structural and In Vitro Evaluation. <i>Langmuir</i> , 2021, 37, 13767-13777.	3.5	14
61	Sustainable Production of Synthesis Gases via State of the Art Metal Supported Catalytic Systems: An Overview. <i>Journal of the Chinese Chemical Society</i> , 2013, 60, 1297-1308.	1.4	12
62	Theoretical calculation simulation studies of ABV nuclear reactor coupled with desalination system. <i>International Journal of Energy Research</i> , 2015, 39, 1554-1563.	4.5	12
63	Identification of potential inhibitors of Zika virus NS5 RNA-dependent RNA polymerase through virtual screening and molecular dynamic simulations. <i>Saudi Pharmaceutical Journal</i> , 2020, 28, 1580-1591.	2.7	12
64	Synthesis and characterization of graphene oxide, reduced graphene oxide and their nanocomposites with polyethylene oxide. <i>Current Applied Physics</i> , 2022, 40, 1-11.	2.4	12
65	Dysprosium substituted nickel cobalt ferrite nanomaterials and their composites with reduced graphene oxide for photocatalysis. <i>Journal of Taibah University for Science</i> , 2020, 14, 1308-1316.	2.5	11
66	The Impact of Cu <sup>2+</sup> and Mg <sup>2+</sup> onto the electrochemical energy storage properties of Nanocrystalline Co <sub>0.8</sub> Ni <sub>0.2</sub> Fe <sub>2</sub> O <sub>4</sub> particles and their hybrids with graphene. <i>Ceramics International</i> , 2019, 45, 18099-18105.	4.8	10
67	Ethanol amine functionalized electrospun nanofibers membrane for the treatment of dyes polluted wastewater. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 3153-3166.	3.1	10
68	Fabrication of the Diethylenetriamine Grafted Polyacrylonitrile Electrospun Nanofibers Membrane for the Aqueous Removal of Cationic Dyes. <i>Science of Advanced Materials</i> , 2015, 7, 309-318.	0.7	10
69	Fabrication and characterization of Ni <sub>1+x</sub> Zr <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> nanoparticles for potential applications in high frequency devices. <i>Ceramics International</i> , 2016, 42, 16359-16363.	4.8	9
70	Development of theoretical-computational model for radiation shielding. <i>Journal of Radiation Research and Applied Sciences</i> , 2020, 13, 606-615.	1.2	9
71	Facile Synthesis of 5-Aryl-N-(pyrazin-2-yl)thiophene-2-carboxamides via Suzuki Cross-Coupling Reactions, Their Electronic and Nonlinear Optical Properties through DFT Calculations. <i>Molecules</i> , 2021, 26, 7309.	3.8	9
72	A Wideband Bear-Shaped Compact Size Implantable Antenna for In-Body Communications. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 2859.	2.5	9

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73	Evaluation of the Thermal and Morphological Properties of $\hat{I}^3$ -Irradiated Chitosan-Glycerol-Based Polymeric Films. <i>Processes</i> , 2021, 9, 1783.	2.8	8
74	First principles study of layered silicon carbide as anode in lithium ion battery. <i>International Journal of Quantum Chemistry</i> , 2022, 122, .	2.0	8
75	Fabrication of Chitosan Nanofibers Membrane with Improved Stability and Brittily. <i>Advanced Science Letters</i> , 2012, 17, 217-223.	0.2	7
76	RKKY magnetic interactions in chemically synthesized $Zn_{0.95\hat{A}^{\sim}x}Fe_{0.05}Al_xO$ ( $x = 0, 0.03, 0.05, 0.07$ ) nanocrystallites. <i>Arabian Journal of Chemistry</i> , 2017, 10, S1204-S1208.	4.9	6
77	Optical anticounterfeiting photonic bilayer film based on handedness of solid-state helicoidal structure. <i>RSC Advances</i> , 2021, 11, 37498-37503.	3.6	6
78	Photocatalytic performance of black titanium dioxide for phenolic compounds removal from oil refinery wastewater: nanoparticles vs nanowires. <i>Applied Nanoscience (Switzerland)</i> , 2022, 12, 3499-3515.	3.1	6
79	Phlomisamide and Phlomisteriod: A New Ceramide and a New Stigmasterol Derivative from <i>Phlomis cashmeriana</i> . <i>Helvetica Chimica Acta</i> , 2010, 93, 1428-1431.	1.6	5
80	First principles investigations of vibrational properties of titania and zirconia clusters. <i>Journal of Nanoparticle Research</i> , 2019, 21, 1.	1.9	5
81	First Principles Study of Dendritic Carbazole Photosensitizer Dyes Modified with Different Conjugation Structures. <i>ChemistrySelect</i> , 2019, 4, 2787-2794.	1.5	5
82	Comparative Analysis of the Shear Bond Strength of Flowable Self-Adhering Resin-Composites Adhesive to Dentin with a Conventional Adhesive. <i>Coatings</i> , 2021, 11, 273.	2.6	5
83	Development and verification of numerical study to calculate focal points of temperature in helium cooled ceramic blanket (HCCB) system in CFETR. <i>Modern Physics Letters B</i> , 2019, 33, 1950173.	1.9	4
84	Optical Properties of Titania-Zirconia Clusters: a TD-DFT Study. <i>Journal of Cluster Science</i> , 2019, 30, 707-713.	3.3	4
85	New mesostructured origami silica matrix: a nano-platform for highly retentive and pH-controlled delivery system. <i>Journal of Taibah University for Science</i> , 2021, 15, 133-144.	2.5	4
86	Synthesis and Study of Morphology and Biocompatibility of Xanthan Gum/Titanium Dioxide-Based Polyurethane Elastomers. <i>Polymers</i> , 2021, 13, 3416.	4.5	4
87	Fabrication of $NiO/SnO_2$ heterojunction based photocatalyst for efficient sunlight degradation of organic dyes. <i>Journal of Taibah University for Science</i> , 2021, 15, 656-665.	2.5	4
88	CO <sub>2</sub> capture and separation from H <sub>2</sub> /CH <sub>4</sub> /N <sub>2</sub> gas mixtures by a novel ternary pentagonal monolayer Penta-BCN: First principles investigation. <i>Journal of Molecular Liquids</i> , 2022, 348, 118474.	4.9	4
89	Thiamine-functionalized silver-copper bimetallic nanoparticles-based electrochemical sensor for sensitive detection of anti-inflammatory drug 4-aminoantipyrine. <i>Chemical Papers</i> , 2022, 76, 2721-2731.	2.2	4
90	Synthesis of novel copper nanoparticles/ternary polymer blend nanocomposites and their structural, thermal and rheological properties and AC impedance. <i>Polymer International</i> , 2017, 66, 1182-1189.	3.1	3

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91	First-principles study of vibrational properties of TiSiO <sub>4</sub> clusters. International Journal of Quantum Chemistry, 2019, 119, e25924.	2.0	3
92	Effects of thermal annealing on structural and magnetic properties of Mn ions implanted AlInN/GaN films. Journal of Magnetism and Magnetic Materials, 2019, 469, 618-622.	2.3	3
93	First-Principles Study of Antiferromagnetic Superexchange Interactions Between TiAl-VN Complexes in AlN. Journal of Superconductivity and Novel Magnetism, 2022, 35, 889-898.	1.8	3
94	Synthesis, structural and magnetic behavior of undoped and Mn-doped anatase TiO <sub>2</sub> nanoparticles. Modern Physics Letters B, 2015, 29, 1550015.	1.9	2
95	Electrohydrodynamic Processes and Their Affecting Parameters. , 0, , .		2
96	Synthesis, characterization and environmental remediation studies of Bi-substituted Li-Co spinel ferrites. Journal of Taibah University for Science, 2021, 15, 376-390.	2.5	2
97	The role of synthesis method on ZnO nanoparticles: implications for zinc dissolution and arsenite adsorption in water. , 0, 123, 138-149.		2
98	The impact of rare earth Nd <sup>3+</sup> cations on structural, spectral, magnetic and dielectric parameters of NiFe <sub>2</sub> O <sub>4</sub> nanoparticles. Journal of Taibah University for Science, 2022, 16, 392-400.	2.5	2
99	Design and fabrication of microfibrinous composite scaffold by coating clindamycin and chitosan onto cellulose filter paper for wound dressing applications. Applied Nanoscience (Switzerland), 2022, 12, 3437-3448.	3.1	1
100	Recent advances in renewable polymer/metal oxide systems used for tissue engineering. , 2022, , 395-445.		1
101	Synthesis and Characterization of Zinc Oxide Nanoparticles by Modified Sol-Gel Method. Asian Journal of Chemistry, 2014, 26, 7069-7070.	0.3	0
102	Thermal Treatment Effect on Catalytic Activity of Au/TiO <sub>2</sub> for CO Oxidation. Applied Mechanics and Materials, 2014, 548-549, 254-258.	0.2	0
103	Fabrication of chitosan/polyacrylonitrile blend and semi-IPN hydrogel with epichlorohydrin. AIP Conference Proceedings, 2015, , .	0.4	0
104	Study for Lorentz force impact on irreversibility of nanomaterial with considering the permeable zone. Applied Nanoscience (Switzerland), 0, , 1.	3.1	0
105	Medical applications of polymer/functionalized nanoparticle composite systems, renewable polymers, and polymer-metal oxide composites. , 2022, , 129-164.		0