

# Shahrzad Javanshir

## List of Publications by Year in descending order

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69  
papers

1,502  
citations

257450

24  
h-index

377865

34  
g-index

75  
all docs

75  
docs citations

75  
times ranked

1200  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasonic-Assisted Preparation, Characterization, and Use of Novel Biocompatible Core/Shell Fe <sub>3</sub> O <sub>4</sub> @GA@Isinglass in the Synthesis of 1,4-Dihydropyridine and 4 <i>H</i> -Pyran Derivatives. ACS Omega, 2018, 3, 5012-5020.	3.5	75
2	Sodium alginate: An efficient biopolymeric catalyst for green synthesis of 2-amino-4 <i>H</i> -pyran derivatives. International Journal of Biological Macromolecules, 2016, 87, 172-179.	7.5	70
3	Synthesis, characterization and microwave characteristics of ternary nanocomposite of MWCNTs/doped Sr-hexaferrite/PANI. Journal of Magnetism and Magnetic Materials, 2017, 423, 152-157.	2.3	69
4	Regulating the energy band-gap, UV-Vis light absorption, electrical conductivity, microwave absorption, and electromagnetic shielding effectiveness by modulating doping agent. Polymer, 2020, 209, 122981.	3.8	54
5	Morphology and medium influence on microwave characteristics of nanostructures: A review. Journal of Materials Science, 2021, 56, 17457-17477.	3.7	54
6	Nano KF/Clinoptilolite: An Effective Heterogeneous Base Nanocatalyst for Synthesis of Substituted Quinolines in Water. Catalysis Letters, 2016, 146, 338-344.	2.6	52
7	Hybrid magnetic Irish moss/Fe <sub>3</sub> O <sub>4</sub> as a nano-biocatalyst for synthesis of imidazopyrimidine derivatives. RSC Advances, 2016, 6, 50431-50436.	3.6	49
8	Magnetic $\hat{\text{Fe}}_2\text{O}_3$ @Sh@Cu <sub>2</sub> O: an efficient solid-phase catalyst for reducing agent and base-free click synthesis of 1,4-disubstituted-1,2,3-triazoles. BMC Chemistry, 2020, 14, 1.	3.8	48
9	Preparation and investigation of structural, magnetic, and microwave absorption properties of aluminum-doped strontium ferrite/MWCNT/polyaniline nanocomposite at KU-band frequency. Journal of Applied Polymer Science, 2017, 134, 45135.	2.6	46
10	Preparation and characterization of one-pot PANi/Fe/Fe <sub>3</sub> O <sub>4</sub> /Fe <sub>2</sub> O <sub>3</sub> nanocomposite and investigation of its microwave, magnetic and optical performance. Synthetic Metals, 2019, 252, 40-49.	3.9	46
11	An efficient synthesis of 4 <i>H</i> -chromene, 4 <i>H</i> -pyran, and oxepine derivatives via one-pot three-component tandem reactions. Tetrahedron Letters, 2012, 53, 6977-6981.	1.4	42
12	Preparation and Characterization of MWCNT/Zn <sub>0.25</sub> Co <sub>0.75</sub> Fe <sub>2</sub> O <sub>4</sub> Nanocomposite and Investigation of Its Microwave Absorption Properties at X-Band Frequency Using Silicone Rubber Polymeric Matrix. Journal of Electronic Materials, 2019, 48, 3086-3095.	2.2	33
13	Preparation of graphite-like carbon nitride/polythiophene nanocomposite and investigation of its optical and microwave absorbing characteristics. Composites Communications, 2020, 21, 100421.	6.3	33
14	Synthesis of nanocellulose aerogels and Cu-BTC/nanocellulose aerogel composites for adsorption of organic dyes and heavy metal ions. Scientific Reports, 2021, 11, 18553.	3.3	33
15	Synthesis of 2,3-diaryl-5 <i>H</i> -imidazo[2,1- <i>a</i> ]isindol-5-ones via the one-pot reaction of 1,2-diketones, 2-formylbenzoic acids, and ammonium acetate. Tetrahedron Letters, 2012, 53, 3448-3451.	1.4	31
16	SO <sub>3</sub> H-functionalized mesoporous silica materials as solid acid catalyst for facile and solvent-free synthesis of 2 <i>H</i> -indazolo[2,1- <i>b</i> ]phthalazine-1,6,11-trione derivatives. New Journal of Chemistry, 2015, 39, 9665-9671.	2.8	31
17	Preparation and characterization of Ba <sub>0.2</sub> Sr <sub>0.2</sub> La <sub>0.6</sub> MnO <sub>3</sub> nanoparticles and investigation of size & shape effect on microwave absorption. Journal of Magnetism and Magnetic Materials, 2017, 432, 444-449.	2.3	31
18	Synthesis and antibacterial study of 2-amino-4 <i>H</i> -pyrans and pyrans annulated heterocycles catalyzed by sulfated polysaccharide-coated BaFe <sub>12</sub> O <sub>19</sub> nanoparticles. Research on Chemical Intermediates, 2020, 46, 3683-3701.	2.7	31

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19	Preparation and identification of modified La <sub>0.8</sub> Sr <sub>0.2</sub> FeO <sub>3</sub> nanoparticles and study of its microwave properties using silicone rubber or PVC. <i>Materials Research Express</i> , 2019, 6, 075004.	1.6	29
20	Synthesis, Molecular Docking, Molecular Dynamics Studies, and Biological Evaluation of 4 <i>H</i> -Chromone-1,2,3,4-tetrahydropyrimidine-5-carboxylate Derivatives as Potential Antileukemic Agents. <i>Journal of Chemical Information and Modeling</i> , 2017, 57, 1246-1257.	5.4	28
21	A novel approach to prepare one-pot Fe/PPy nanocomposite and evaluation of its microwave, magnetic, and optical performance. <i>Materials Research Express</i> , 2019, 6, 035024.	1.6	28
22	Superparamagnetic alginate-based nanocomposite modified by L-arginine: An eco-friendly bifunctional catalysts and an efficient antibacterial agent. <i>International Journal of Biological Macromolecules</i> , 2020, 152, 834-845.	7.5	27
23	Caspian Isinglass, a versatile and sustainable biocatalyst for domino synthesis of spirooxindoles and spiroacenaphthylenes in water. <i>Monatshefte für Chemie</i> , 2017, 148, 703-710.	1.8	26
24	Ultrasound-promoted, rapid, green, one-pot synthesis of 2-aminobenzothiazolomethylnaphthols via a multi-component reaction, catalyzed by heteropolyacid in aqueous media. <i>Journal of Saudi Chemical Society</i> , 2014, 18, 502-506.	5.2	25
25	Superparamagnetic Fe <sub>3</sub> O <sub>4</sub> @Alginate supported L-arginine as a powerful hybrid inorganic-organic nanocatalyst for the one-pot synthesis of pyrazole derivatives. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5888.	3.5	25
26	Facile synthesis of imidazo[1,2-a]pyridines via a one-pot three-component reaction under solvent-free mechanochemical ball-milling conditions. <i>RSC Advances</i> , 2014, 4, 30229.	3.6	24
27	Tailoring GO/BaFe <sub>12</sub> O <sub>19</sub> /La <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> ternary nanocomposite and investigation of its microwave characteristics. <i>Materials Research Express</i> , 2019, 6, 085063.	1.6	24
28	Potassium phthalimide-N-oxyl: An efficient catalyst for cyanosilylation of carbonyl compounds under mild conditions. <i>Journal of Molecular Catalysis A</i> , 2008, 283, 29-32.	4.8	22
29	An efficient catalyst- and solvent-free method for the synthesis of medicinally important dihydropyrano[2,3-c]pyrazole derivatives using ball milling technique. <i>Journal of the Iranian Chemical Society</i> , 2016, 13, 591-596.	2.2	21
30	Tetraethylammonium 2-(carbamoyl)benzoate as a bifunctional organocatalyst for one-pot synthesis of Hantzsch 1,4-dihydropyridine and polyhydroquinoline derivatives. <i>Monatshefte für Chemie</i> , 2016, 147, 1779-1787.	1.8	20
31	Peanut shell as a green biomolecule support for anchoring Cu <sub>2</sub> O: a biocatalyst for green synthesis of 1,2,3-triazoles under ultrasonic irradiation. <i>BMC Chemistry</i> , 2019, 13, 97.	3.8	19
32	Hydroxyapatite grafted chitosan/laponite RD hydrogel: Evaluation of the encapsulation capacity, pH-responsivity, and controlled release behavior. <i>International Journal of Biological Macromolecules</i> , 2021, 190, 351-359.	7.5	19
33	p-toluenesulfonic acid-catalyzed synthesis of polysubstituted quinolines via Friedländer reaction under ball-milling conditions at room temperature and theoretical study on the mechanism using a density functional theory method. <i>Journal of Physical Organic Chemistry</i> , 2014, 27, 589-596.	1.9	18
34	Synthesis of cyanohydrin trimethylsilyl ethers catalyzed by potassium p-toluenesulfinate. <i>Catalysis Communications</i> , 2008, 9, 1352-1355.	3.3	17
35	Magnetic Isinglass a Nano-Bio Support for Copper Immobilization: Cu@IG@Fe <sub>3</sub> O <sub>4</sub> Heterogeneous Catalyst for Triazoles Synthesis. <i>ChemistrySelect</i> , 2018, 3, 5486-5493.	1.5	17
36	Efficient removal of Ibuprofen via novel core-shell magnetic bio-surfactant rhamnolipid layered double hydroxide nanocomposite. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106158.	6.7	17

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37	Organocatalytic clean synthesis of densely functionalized 4 <i>H</i> -pyrans by bifunctional tetraethylammonium 2-(carbamoyl)benzoate using ball milling technique under mild conditions. <i>Green Chemistry Letters and Reviews</i> , 2016, 9, 96-105.	4.7	15
38	Magnetic core-shell Carrageenan moss/Fe <sub>3</sub> O <sub>4</sub> : a polysaccharide-based metallic nanoparticles for synthesis of pyrimidinone derivatives via Biginelli reaction. <i>Chemistry Central Journal</i> , 2018, 12, 108.	2.6	15
39	Preparation of a superior intense, lightweight, affordable, broadband microwave-absorbing nanocomposite by PUF/PANi. <i>Materials Research Express</i> , 2019, 6, 0850e9.	1.6	13
40	Preparation and Investigation of Structural, Magnetic, and Microwave Absorption Properties of a SrAl <sub>1.3</sub> Fe <sub>10.7</sub> O <sub>19</sub> /Multiwalled Carbon Nanotube Nanocomposite in X and Ku-Band Frequencies. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 3911-3918.	0.9	13
41	Preparation, Antibacterial Activity, and Catalytic Application of Magnetic Graphene Oxide-Fucoidan in the Synthesis of 1,4-Dihydropyridines and Polyhydroquinolines. <i>ChemistryOpen</i> , 2021, 10, 1186-1196.	1.9	13
42	Fast and Convenient Synthesis of Cross-Linked Poly(urethane-isocyanurate) in the Presence of Tetrabutylammonium Phthalimide- <i>N</i> -oxyl or Tetraethylammonium 2-(Carbamoyl)benzoate as Efficient Metal-free Cyclotrimerization Catalysts. <i>Polymer-Plastics Technology and Engineering</i> , 2013, 52, 1127-1132.	1.9	12
43	Palladium on magnetic Irish moss: A new nano-biocatalyst for Suzuki type cross-coupling reactions. <i>Applied Organometallic Chemistry</i> , 2019, 33, e4859.	3.5	12
44	Isinglass-palladium as collagen peptide-metal complex: a highly efficient heterogeneous biocatalyst for Suzuki cross-coupling reaction in water. <i>Journal of the Iranian Chemical Society</i> , 2019, 16, 1473-1481.	2.2	12
45	Collagen-coated superparamagnetic iron oxide nanoparticles as a sustainable catalyst for spirooxindole synthesis. <i>Scientific Reports</i> , 2022, 12, 6104.	3.3	12
46	Preparation of $\beta$ -chitin-based nanocomposite as an effective biocatalyst for microwave aided domino reaction. <i>Heliyon</i> , 2019, 5, e02036.	3.2	11
47	Synthesis, Characterization, and Catalytic Properties of Magnetic Fe <sub>3</sub> O <sub>4</sub> @FU: A Heterogeneous Nanostructured Mesoporous Bio-Based Catalyst for the Synthesis of Imidazole Derivatives. <i>Frontiers in Chemistry</i> , 2020, 8, 596029.	3.6	11
48	New 4-phenylpiperazine-carbodithioate- <i>N</i> -phenylacetamide hybrids: Synthesis, in vitro and in silico evaluations against cholinesterase and $\alpha$ -glucosidase enzymes. <i>Archiv Der Pharmazie</i> , 2022, 355, e2100313.	4.1	11
49	Dialkyl 2H-1-benzothiopyran-2,3-dicarboxylates via Intramolecular Wittig Reaction. <i>Journal of Chemical Research</i> , 2007, 2007, 60-61.	1.3	10
50	Magnetic BaFe <sub>12</sub> O <sub>19</sub> /Al <sub>2</sub> O <sub>3</sub> : An Efficient Heterogeneous Lewis Acid Catalyst for the Synthesis of $\beta$ -Aminophosphonates (Kabachnik-Fields Reaction). <i>Catalysis Letters</i> , 2019, 149, 3384-3394.	2.6	10
51	$\beta$ -aminobutyric acid and collagen peptides as recyclable bifunctional biocatalysts for the solvent-free one-pot synthesis of 2-aminobenzothiazolomethyl-2-naphthols. <i>Green Chemistry Letters and Reviews</i> , 2018, 11, 429-438.	4.7	9
52	Silica-based sulfonic acid (MCM-41-SO <sub>3</sub> H): a practical and efficient catalyst for the synthesis of highly substituted quinolines under solvent-free conditions at ambient temperature. <i>Current Chemistry Letters</i> , 2014, 3, 125-132.	1.6	8
53	Preparation, Characterization and Antibacterial Activity Investigation of Hydrocolloids Based Irish Moss/ZnO/CuO Bio-based Nanocomposite Films. <i>Journal of Cluster Science</i> , 2018, 29, 1329-1336.	3.3	8
54	Preparation, characterization and use of new lignocellulose-based bio nanocomposite as a heterogeneous catalyst for sustainable synthesis of pyrimido benzazoles. <i>Green Chemistry Letters and Reviews</i> , 2018, 11, 275-285.	4.7	8

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55	CS@Cu <sub>2</sub> O and magnetic Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> -pAMBA-CS-Cu <sub>2</sub> O as heterogeneous catalysts for CuAAC click reaction. <i>Arabian Journal of Chemistry</i> , 2022, 15, 103838.	4.9	8
56	Lithium Perchlorate Mediated Three Component Reaction for the Preparation of Primary Amines. <i>Journal of Chemical Research Synopses</i> , 1999, , 330-331.	0.3	7
57	Carrageenan assisted synthesis of morphological diversity of CdO and Cd (OH) <sub>2</sub> with high antibacterial activity. <i>Materials Research Express</i> , 2021, 8, 065006.	1.6	6
58	Metronidazole, acyclovir and tetrahydrobiopterin may be promising to treat COVID-19 patients, through interaction with interleukin-12. <i>Journal of Biomolecular Structure and Dynamics</i> , 2023, 41, 4253-4271.	3.5	6
59	Sonochemical synthesis of inorganic cryogel Ag <sub>2</sub> Mo <sub>3</sub> O <sub>10</sub> @Ag/AgO: structural characterization, antibacterial activity, and dye adsorption properties. <i>RSC Advances</i> , 2022, 12, 16215-16228.	3.6	6
60	Synthesis, Characterization, and Antioxidant Evaluations of New 2-Oxochromene and Benzofuran Derivatives Catalyzed by KF/CP. <i>Journal of Heterocyclic Chemistry</i> , 2017, 54, 979-985.	2.6	5
61	Synthesis, characterization and antioxidant activities of highly functionalized cyclopentadienes catalyzed by ZnO-nanorod as economic and efficient heterogeneous nano catalyst. <i>Chinese Chemical Letters</i> , 2017, 28, 274-279.	9.0	5
62	Natural Polymer-Based Copper/ Sandarac Resin Catalyzed Regioselective One-Pot Synthesis of 1,4-Disubstituted 1,2,3-Triazoles under Ultrasonic Irradiation. <i>ChemistrySelect</i> , 2018, 3, 11427-11434.	1.5	5
63	An improved solvent-free synthesis of flunixin and 2-(arylamino) nicotinic acid derivatives using boric acid as catalyst. <i>Chemistry Central Journal</i> , 2017, 11, 124.	2.6	4
64	Eco-compatible synthesis of novel 3-hydroxyflavones catalyzed by KF-impregnated mesoporous natural zeolite clinoptilolite. <i>Chemistry of Heterocyclic Compounds</i> , 2018, 54, 508-513.	1.2	4
65	New collagen-based cryogel as bio-sorbent materials for Rhodamine B removal from aqueous environments. <i>Journal of Sol-Gel Science and Technology</i> , 2022, 103, 405-415.	2.4	4
66	A Highly Efficient Method for Synthesis of Bisarylmethylidenes of Cyclic Ketones in [BMIm]Cl/NaOH System as New and Recyclable Catalyst. <i>Current Chemistry Letters</i> , 2014, 3, 63-70.	1.6	3
67	MCM-41-SO <sub>3</sub> H-catalyzed synthesis of highly substituted 3-amino-imidazo[1,2-a]pyridines or pyrazines via the Groebke-Blackburn-Bienaym© multicomponent reaction under grinding conditions at ambient temperature. <i>Scientia Iranica</i> , 2016, 23, 2724-2734.	0.4	2
68	Identification of flavonoids as potent inhibitors against MERS-CoV 3C-like protease. <i>Coronaviruses</i> , 2021, 02, .	0.3	0
69	Synthesis of Functionalized Thiopyrano [2,3-b]quinolines via Cascade Reactions Catalyzed by Magnetic Arginine/Alginate Biocomposite. <i>Chemistry Proceedings</i> , 2020, 3, .	0.1	0