

Ali Hossein Rezayan

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.

92
papers

2,284
citations

26
h-index

43
g-index

115
ext. papers

2,615
ext. citations

3.7
avg, IF

5.26
L-index

#	Paper	IF	Citations
92	Buried-Gate MWCNT FET-Based Nanobiosensing Device for Real-Time Detection of CRP.. <i>ACS Omega</i> , 2022 , 7, 7341-7349	3.9	0
91	The process of L-asparaginase encapsulation by poly (lactic-co-glycolic acid) and methoxy poly (ethylene glycol): A molecular dynamics simulation study. <i>Materials Today Communications</i> , 2022 , 31, 103435	2.5	
90	Enhance corrosion behavior of AZ31 magnesium alloy by tailoring the anodic oxidation time followed by heat treatment in simulated body fluid. <i>Anti-Corrosion Methods and Materials</i> , 2021 , 68, 276-283	9.8	1
89	Improving biocompatibility and corrosion resistance of anodized AZ31 Mg alloy by electrospun chitosan/mineralized bone allograft (MBA) nanocoatings. <i>Surface and Coatings Technology</i> , 2021 , 405, 126627	4.4	6
88	In vitro and in vivo evaluation of a nanofiber wound dressing loaded with melatonin. <i>International Journal of Pharmaceutics</i> , 2021 , 596, 120213	6.5	18
87	Gold nanoparticles anchored onto covalent poly deep eutectic solvent functionalized graphene: An electrochemical aptasensor for the detection of C-reactive protein. <i>Materials Chemistry and Physics</i> , 2021 , 269, 124730	4.4	5
86	Preparation and Evaluation of a Niosomal Drug Delivery System Containing Cefazolin and Study of Its Antibacterial Activity. <i>Iranian Journal of Medical Microbiology</i> , 2021 , 15, 638-657	0.4	0
85	Design, fabrication, and optimization of a dual function three-layer scaffold for controlled release of metformin hydrochloride to alleviate fibrosis and accelerate wound healing. <i>Acta Biomaterialia</i> , 2020 , 113, 144-163	10.8	22
84	Whole cell FRET immunosensor based on graphene oxide and graphene dot for <i>Campylobacter jejuni</i> detection. <i>Food Chemistry</i> , 2020 , 309, 125690	8.5	32
83	Controlled Tyrosine Kinase Inhibitor Delivery to Liver Cancer Cells by Gate-Capped Mesoporous Silica Nanoparticles.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 239-251	4.1	7
82	Development of chitosan-coated liposome for pulmonary delivery of N-acetylcysteine. <i>International Journal of Biological Macromolecules</i> , 2020 , 156, 1455-1463	7.9	26
81	A lectin-coupled porous silicon-based biosensor: label-free optical detection of bacteria in a real-time mode. <i>Scientific Reports</i> , 2020 , 10, 16017	4.9	17
80	HHC-36 antimicrobial peptide loading on silk fibroin (SF)/hydroxyapatite (HA) nanofibrous-coated titanium for the enhancement of osteoblast and bactericidal functions. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2020 , 69, 629-639	3	19
79	Theranostic β -Lactalbumin-Polymer-Based Nanocomposite as a Drug Delivery Carrier for Cancer Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 5189-5208	5.5	10
78	Label-free discrimination of single nucleotide changes in DNA by reflectometric interference Fourier transform spectroscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 181, 714-720	6	6
77	Synthesis and evaluation of injectable thermosensitive penta-block copolymer hydrogel (PNIPAAm-PCL-PEG-PCL-PNIPAAm) and star-shaped poly(CL-CO-LA)-b-PEG for wound healing applications. <i>Journal of Cellular Biochemistry</i> , 2019 , 120, 17194-17207	4.7	35
76	Optimization of Porous Silicon Conditions for DNA-based Biosensing via Reflectometric Interference Spectroscopy. <i>Cell Journal</i> , 2019 , 20, 584-591	2.4	2

75	Rapid optimization of liposome characteristics using a combined microfluidics and design-of-experiment approach. <i>Drug Delivery and Translational Research</i> , 2019 , 9, 404-413	6.2	24
74	Developing new synthetic biomimetic nanocomposite adhesives: Synthesis and evaluation of bond strength and solubilization. <i>Reactive and Functional Polymers</i> , 2018 , 127, 85-93	4.6	3
73	Bioactive composite scaffolds of carboxymethyl chitosan-silk fibroin containing chitosan nanoparticles for sustained release of ascorbic acid. <i>European Polymer Journal</i> , 2018 , 103, 40-50	5.2	19
72	Protein adsorption onto polysaccharides: Comparison of chitosan and chitin polymers. <i>Carbohydrate Polymers</i> , 2018 , 191, 191-197	10.3	23
71	Combined cerium oxide nanocapping and layer-by-layer coating of porous silicon containers for controlled drug release. <i>Journal of Materials Science</i> , 2018 , 53, 14975-14988	4.3	8
70	Surface functionalization of halloysite nanotubes via curcumin inclusion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 538, 834-840	5.1	17
69	A biophysical study on the mechanism of interactions of DOX or PTX with β -lactalbumin as a delivery carrier. <i>Scientific Reports</i> , 2018 , 8, 17345	4.9	12
68	Porous MnFeO@SiO magnetic glycopolymer: A multivalent nanostructure for efficient removal of bacteria from aqueous solution. <i>Ecotoxicology and Environmental Safety</i> , 2018 , 166, 277-284	7	4
67	Colorimetric aptasensor for <i>Campylobacter jejuni</i> cells by exploiting the peroxidase like activity of Au@Pd nanoparticles. <i>Mikrochimica Acta</i> , 2018 , 185, 448	5.8	59
66	Label-Free Detection of Digoxin Using Localized Surface Plasmon Resonance-Based Nanobiosensor. <i>Plasmonics</i> , 2017 , 12, 157-164	2.4	12
65	Synthesis of poly(ϵ -caprolactone)-based polyurethane semi-interpenetrating polymer networks as scaffolds for skin tissue regeneration. <i>International Journal of Polymeric Materials and Polymeric Biomaterials</i> , 2017 , 66, 805-811	3	24
64	Enhanced Entrapment and Improved in Vitro Controlled Release of N-Acetyl Cysteine in Hybrid PLGA/Lecithin Nanoparticles Prepared Using a Nanoprecipitation/Self-Assembly Method. <i>Journal of Cellular Biochemistry</i> , 2017 , 118, 4203-4209	4.7	15
63	Glucose reinforced FeO@cellulose mediated amino acid: Reusable magnetic glyconanoparticles with enhanced bacteria capture efficiency. <i>Carbohydrate Polymers</i> , 2017 , 170, 190-197	10.3	17
62	Efficient megalin targeted delivery to renal proximal tubular cells mediated by modified-polymyxin B-polyethylenimine based nano-gene-carriers. <i>Materials Science and Engineering C</i> , 2017 , 79, 770-782	8.3	27
61	Megalín-targeted enhanced transfection efficiency in cultured human HK-2 renal tubular proximal cells using aminoglycoside-carboxyalkyl- polyethylenimine -containing nanoplexes. <i>International Journal of Pharmaceutics</i> , 2017 , 523, 102-120	6.5	25
60	Evaluating the Potential of an Antibody Against Recombinant OmpW Antigen in Detection of <i>Vibrio cholerae</i> by Surface Plasmon Resonance (SPR) Biosensor. <i>Plasmonics</i> , 2017 , 12, 1493-1504	2.4	13
59	FRET- based immunoassay using CdTe and AuNPs for the detection of OmpW antigen of <i>Vibrio cholerae</i> . <i>Journal of Luminescence</i> , 2017 , 192, 932-939	3.8	23
58	Follicle-stimulating hormone encapsulation in the cholesterol-modified chitosan nanoparticles via molecular dynamics simulations and binding free energy calculations. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 107, 126-137	5.1	20

57	Development of Thiolated Chitosan Nanoparticles Based Mucoadhesive Vaginal Drug Delivery Systems. <i>Polymer Science - Series A</i> , 2017 , 59, 858-865	1.2	7
56	Synthesis and Characterization of Biodegradable Semi-Interpenetrating Polymer Networks Based on Star-Shaped Copolymers of ϵ -Caprolactone and Lactide. <i>Iranian Journal of Pharmaceutical Research</i> , 2017 , 16, 63-73	1.1	3
55	Synthesis of Novel Fluorene Bisamide Derivatives via Ugi Reaction and Evaluation their Biological Activity against. <i>Iranian Journal of Pharmaceutical Research</i> , 2017 , 16, 745-755	1.1	2
54	Synthesis and Biological Evaluation of Thiosemicarbazide Derivatives Endowed with High Activity toward. <i>Iranian Journal of Pharmaceutical Research</i> , 2017 , 16, 1128-1140	1.1	4
53	Selective aqueous oxidation of alcohols catalyzed by copper (II) phthalocyanine nanoparticles. <i>Comptes Rendus Chimie</i> , 2016 , 19, 314-319	2.7	6
52	Gallic acid-loaded montmorillonite nanostructure as a new controlled release system. <i>Applied Clay Science</i> , 2016 , 119, 236-242	5.2	22
51	Monodisperse magnetite (Fe ₃ O ₄) nanoparticles modified with water soluble polymers for the diagnosis of breast cancer by MRI method. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 420, 210-217	2.8	57
50	Development of an immunosensor using oriented immobilized anti-OmpW for sensitive detection of <i>Vibrio cholerae</i> by surface plasmon resonance. <i>Biosensors and Bioelectronics</i> , 2016 , 86, 484-488	11.8	30
49	Comparison of antibody immobilization strategies in detection of <i>Vibrio cholerae</i> by surface plasmon resonance. <i>Biointerphases</i> , 2016 , 11, 041006	1.8	11
48	A Novel Label-Free microRNA-155 Detection on the Basis of Fluorescent Silver Nanoclusters. <i>Journal of Fluorescence</i> , 2015 , 25, 925-9	2.4	31
47	Synthesis of pyrido[2,1- <i>b</i> :3,4- <i>b'</i>]imidazo[4,5- <i>c</i>]isoquinolines via a one-pot, three-component reaction. <i>Tetrahedron Letters</i> , 2014 , 55, 1848-1850	2	10
46	Synthesis of α -Aminophosphonates in the Presence of a Magnetic Recyclable Fe ₃ O ₄ @SiO ₂ -2mimSO ₃ H Nanocatalyst. <i>Bulletin of the Chemical Society of Japan</i> , 2014 , 87, 982-987	5.1	20
45	Study the N Turnover of Legume Seed Meals for Designing a Slow-Release Nitrogen Fertilizer. <i>Communications in Soil Science and Plant Analysis</i> , 2014 , 45, 1325-1335	1.5	7
44	One-Pot Synthesis of Metallopyrazinoporphyrazines Using 2,3-Diaminomaleonitrile and 1,2-Dicarbonyl Compounds Accelerated by Microwave Irradiation. <i>Organic Chemistry International</i> , 2014 , 2014, 1-5		4
43	A mild and green chemistry approach for the synthesis of symmetrical spirooxindole derivatives. <i>Journal of the Iranian Chemical Society</i> , 2013 , 10, 521-525	2	5
42	Synthesis of a new class of tetronic acid derivatives: a one-pot three-component condensation reaction between isoquinoline or pyridine and dialkyl acetylenedicarboxylate with tetronic acid. <i>Monatshefte für Chemie</i> , 2013 , 144, 1051-1055	1.4	5
41	Stereoselective synthesis of 3,4-dihydro-7-nitrocoumarins via isocyanide-based multicomponent reaction. <i>Comptes Rendus Chimie</i> , 2012 , 15, 499-503	2.7	5
40	Synthesis and biological evaluation of coumarin derivatives as inhibitors of <i>Mycobacterium bovis</i> (BCG). <i>Chemical Biology and Drug Design</i> , 2012 , 80, 929-36	2.9	21

39	Synthesis and biological evaluation of propargyl acetate derivatives as anti-mycobacterial agents. <i>DARU, Journal of Pharmaceutical Sciences</i> , 2012 , 20, 90	3.9	3
38	(E)-1-(2-Nitro-benzyl-idene)-4-phenyl-thio-semicarbazide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o2154		
37	An environmentally benign approach for the synthesis of bifunctional sulfonamide-amide compounds via isocyanide-based multicomponent reactions. <i>Green Chemistry</i> , 2011 , 13, 582	10	37
36	A stereoselective three-component reaction: The facile synthesis of fluorinated tetrahydropyrimido[1,2-b]benzothiazoles. <i>Journal of the Iranian Chemical Society</i> , 2011 , 8, 24-30	2	12
35	Recent progress of isocyanide-based multicomponent reactions in Iran. <i>Molecular Diversity</i> , 2011 , 15, 41-68	3.1	171
34	Pyridine-functionalized MCM-41 as an efficient and recoverable catalyst for the synthesis of pyran annulated heterocyclic systems. <i>Chemical and Pharmaceutical Bulletin</i> , 2010 , 58, 270-2	1.9	14
33	Unexpected Knoevenagel self-condensation reaction of tetronic acid: synthesis of a new class of organic heterocyclic salts. <i>Tetrahedron</i> , 2010 , 66, 1911-1914	2.4	15
32	An unexpected coupling reaction between isocyanides and carboxylic acids: a method for the synthesis of highly stable symmetrical and unsymmetrical alkylamidine and arylamidine carbocations. <i>Tetrahedron Letters</i> , 2010 , 51, 4091-4094	2	8
31	Tin(II) Chloride Dihydrate Catalyzed Groebke Condensation: An Efficient Protocol for the Synthesis of 3-Aminoimidazo[1,2-a]pyridines. <i>Chinese Journal of Chemistry</i> , 2009 , 27, 369-371	4.9	26
30	Synthesis of highly stable unusual charge-separated pyridinium-, isoquinolinium-, quinolinium-, and N-methylimidazolium-tetronic acid zwitterions. <i>Tetrahedron</i> , 2009 , 65, 6063-6068	2.4	24
29	Synthesis of fully substituted pyrano[2,3-c]pyrazole derivatives via a multicomponent reaction of isocyanides. <i>Tetrahedron</i> , 2009 , 65, 3492-3495	2.4	59
28	A mild and efficient method for the synthesis of 2,5-dihydro-5-imino-2-methylfuran-3,4-dicarboxylates via an isocyanide-based multicomponent reaction. <i>Tetrahedron Letters</i> , 2009 , 50, 1456-1458	2	31
27	Green chemistry approaches for the synthesis of quinoxaline derivatives: Comparison of ethanol and water in the presence of the reusable catalyst cellulose sulfuric acid. <i>Comptes Rendus Chimie</i> , 2009 , 12, 1249-1252	2.7	41
26	Coumarin synthesis via Knoevenagel condensation reaction in 1,1,3,3-N,N,N,N-tetramethylguanidinium trifluoroacetate ionic liquid. <i>Journal of the Iranian Chemical Society</i> , 2009 , 6, 710-714	2	44
25	A novel one-pot three-(in situ five-)component condensation reaction: an unexpected approach for the synthesis of tetrahydro-2,4-dioxo-1H-benzo[b][1,5]diazepine-3-yl-2-methylpropanamide derivatives. <i>Organic Letters</i> , 2009 , 11, 3342-5	6.2	80
24	Synthesis of highly functionalized bis(4H-chromene) and 4H-benzo[g]chromene derivatives via an isocyanide-based pseudo-five-component reaction. <i>Journal of Organic Chemistry</i> , 2009 , 74, 4372-4	4.2	104
23	Novel one-pot three- and pseudo-five-component reactions: synthesis of functionalized benzo[g]- and dihydropyrano[2,3-g]chromene derivatives. <i>ACS Combinatorial Science</i> , 2009 , 11, 956-9		95
22	Tungstophosphoric acid (H ₃ PW ₁₂ O ₄₀) catalyzed oxidation of organic compounds with NaBrO ₃ . <i>Catalysis Communications</i> , 2009 , 10, 1074-1078	3.2	22

21	Isocyanide-Catalyzed Reaction of Tetracyanoethylene and Activated 1,3-Dicarbonyl CH-Acid Compounds: A Rapid and Efficient Synthesis of Pyran Annulated Heterocyclic Systems. <i>Synthetic Communications</i> , 2008 , 38, 274-281	1.7	10
20	Novel isocyanide-based four-component reaction: a facile synthesis of fully substituted 3,4-dihydrocoumarin derivatives. <i>Organic Letters</i> , 2008 , 10, 2581-4	6.2	79
19	Aerobic oxidative deprotection of silyl ethers to carbonyl compounds with cobalt (II) tetrasulfophthalocyanine as a catalyst in ionic liquid. <i>Catalysis Communications</i> , 2008 , 10, 129-131	3.2	19
18	Pyridine catalyzed reaction of tetracyanoethylene and activated 1,3-dicarbonyl CH-acid compounds: A rapid and efficient synthesis of pyran annulated heterocyclic systems. <i>Catalysis Communications</i> , 2008 , 9, 1082-1086	3.2	17
17	Meldrum's acid catalyzed reaction of tetracyanoethylene and aldehydes in water: a novel approach to arylidenemalononitrile. <i>Chemical and Pharmaceutical Bulletin</i> , 2008 , 56, 1480-2	1.9	2
16	A novel method for the synthesis of substituted 3,4-dihydrocoumarin derivatives via isocyanide-based three-component reaction. <i>Molecular Diversity</i> , 2008 , 12, 197-202	3.1	12
15	Silica-supported cobalt(II) tetrasulfophthalocyanine catalyzed aerobic oxidation of thiols to disulfides under neutral conditions. <i>Monatshefte Für Chemie</i> , 2008 , 139, 613-615	1.4	14
14	A mild and efficient approach for the selective deprotection of benzyl and phenyl trimethylsilyl ethers in 1-butyl-3-methyl-imidazolium chloride. <i>Monatshefte Für Chemie</i> , 2008 , 139, 1471-1474	1.4	5
13	A novel pyridine-based three-component condensation reaction: synthesis of highly substituted quinolizines. <i>Tetrahedron Letters</i> , 2008 , 49, 1469-1472	2	32
12	A simple and efficient approach to the synthesis of 4H-furo[3,4-b]pyrans via a three-component reaction of isocyanides. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 3968-70	2.9	46
11	Silica sulfuric acid promoted selective oxidation of sulfides to sulfoxides or sulfones in the presence of aqueous H ₂ O ₂ . <i>Catalysis Communications</i> , 2007 , 8, 1112-1116	3.2	125
10	A novel approach for the synthesis of alkyl and aryl sulfonamides. <i>Tetrahedron Letters</i> , 2007 , 48, 2185-2188		54
9	A novel approach for the synthesis of aryl amides. <i>Tetrahedron Letters</i> , 2007 , 48, 6137-6141	2	53
8	Microwave assisted synthesis of metal-free phthalocyanine and metallophthalocyanines. <i>Dyes and Pigments</i> , 2007 , 74, 279-282	4.6	46
7	Clean Synthesis in Water: Uncatalyzed Three-Component Condensation Reaction of 3-Amino-1,2,4-triazole or 2-Aminobenzimidazole with Aldehyde in the Presence of Activated CH-Acids. <i>QSAR and Combinatorial Science</i> , 2007 , 26, 973-979		45
6	One-step Synthesis of 3,4-Dihydrobenzimidazo[2,1-b]quinazolin-1(2H)-ones in an Ionic Liquid. <i>Monatshefte Für Chemie</i> , 2007 , 138, 615-618	1.4	9
5	Ionic Liquid/Silica Sulfuric Acid Promoted Fast Synthesis of a Biginelli-Like Scaffold Reaction. <i>Letters in Organic Chemistry</i> , 2007 , 4, 68-71	0.6	28
4	A Novel Isocyanide-Based Three-Component Condensation Reaction: Synthesis of Fully Substituted Imino- and Spiroiminocyclopentenes. <i>Synlett</i> , 2007 , 2007, 1458-1460	2.2	23

3	Ultrasound-accelerated Synthesis of 1,4-Dihydropyridines in an Ionic Liquid. <i>Monatshefte für Chemie</i> , 2006 , 137, 77-81	1.4	63
2	A very fast and easy procedure for the synthesis of metallophthalocyanines. <i>Journal of Porphyrins and Phthalocyanines</i> , 2005 , 09, 617-620	1.8	15
1	A Modified PEG-Fe ₃ O ₄ Magnetic Nanoparticles Conjugated with D(+)Glucosamine (DG): MRI Contrast Agent. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 1	3.2	