

# Ali Hossein Rezayan

## List of Publications by Year in descending order

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92  
papers

2,935  
citations

126708

33  
h-index

189595

50  
g-index

116  
all docs

116  
docs citations

116  
times ranked

3200  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress of isocyanide-based multicomponent reactions in Iran. <i>Molecular Diversity</i> , 2011, 15, 41-68.	2.1	185
2	Silica sulfuric acid promoted selective oxidation of sulfides to sulfoxides or sulfones in the presence of aqueous H <sub>2</sub> O <sub>2</sub> . <i>Catalysis Communications</i> , 2007, 8, 1112-1116.	1.6	130
3	Synthesis of Highly Functionalized Bis(4 <i>H</i> -chromene) and 4 <i>H</i> -Benzo[ <i>g</i> ]chromene Derivatives via an Isocyanide-Based Pseudo-Five-Component Reaction. <i>Journal of Organic Chemistry</i> , 2009, 74, 4372-4374.	1.7	112
4	Novel One-Pot Three- and Pseudo-Five-Component Reactions: Synthesis of Functionalized Benzo[ <i>g</i> ]- and Dihydropyrano[2,3- <i>g</i> ]chromene Derivatives. <i>ACS Combinatorial Science</i> , 2009, 11, 956-959.	3.3	109
5	Novel Isocyanide-Based Four-Component Reaction: A Facile Synthesis of Fully Substituted 3,4-Dihydrocoumarin Derivatives. <i>Organic Letters</i> , 2008, 10, 2581-2584.	2.4	90
6	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.	2.5	89
7	A Novel One-Pot Three-( <i>In Situ</i> Five-)Component Condensation Reaction: An Unexpected Approach for the Synthesis of Tetrahydro-2,4-dioxo-1 <i>H</i> -benzo[ <i>b</i> ][1,5]diazepine-3-yl-2-methylpropanamide Derivatives. <i>Organic Letters</i> , 2009, 11, 3342-3345.	2.4	84
8	Monodisperse magnetite (Fe <sub>3</sub> O <sub>4</sub> ) 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.	1.0	73
9	Ultrasound-accelerated Synthesis of 1,4-Dihydropyridines in an Ionic Liquid. <i>Monatshefte für Chemie</i> , 2006, 137, 77-81.	0.9	66
10	Synthesis of fully substituted pyrano[2,3- <i>c</i> ]pyrazole derivatives via a multicomponent reaction of isocyanides. <i>Tetrahedron</i> , 2009, 65, 3492-3495.	1.0	66
11	Development of chitosan-coated liposome for pulmonary delivery of N-acetylcysteine. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 1455-1463.	3.6	62
12	A novel approach for the synthesis of aryl amides. <i>Tetrahedron Letters</i> , 2007, 48, 6137-6141.	0.7	60
13	A novel approach for the synthesis of alkyl and aryl sulfonamides. <i>Tetrahedron Letters</i> , 2007, 48, 2185-2188.	0.7	59
14	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.	3.0	56
15	Whole cell FRET immunosensor based on graphene oxide and graphene dot for <i>Campylobacter jejuni</i> detection. <i>Food Chemistry</i> , 2020, 309, 125690.	4.2	56
16	Microwave assisted synthesis of metal-free phthalocyanine and metallophthalocyanines. <i>Dyes and Pigments</i> , 2007, 74, 279-282.	2.0	53
17	In vitro and in vivo evaluation of a nanofiber wound dressing loaded with melatonin. <i>International Journal of Pharmaceutics</i> , 2021, 596, 120213.	2.6	51
18	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.	1.2	50

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19	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.	1.5	49
20	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.	1.6	49
21	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, 3968-3970.	1.0	48
22	Synthesis and evaluation of injectable thermosensitive penta- $\alpha$ -block copolymer hydrogel (PNIPAAm- $\alpha$ -PCL- $\alpha$ -PEG- $\alpha$ -PCL- $\alpha$ -PNIPAAm) and star-shaped poly(CL- $\alpha$ -CO- $\alpha$ -ELA)- $\alpha$ -b-PEG for wound healing applications. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 17194-17207.	1.2	46
23	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.	0.2	44
24	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.	5.3	43
25	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.	4.1	43
26	An environmentally benign approach for the synthesis of bifunctional sulfonamide-amide compounds via isocyanide-based multicomponent reactions. <i>Green Chemistry</i> , 2011, 13, 582.	4.6	42
27	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.	3.8	42
28	A Novel Label-Free microRNA-155 Detection on the Basis of Fluorescent Silver Nanoclusters. <i>Journal of Fluorescence</i> , 2015, 25, 925-929.	1.3	38
29	Ionic Liquid/Silica Sulfuric Acid Promoted Fast Synthesis of a Biginelli-Like Scaffold Reaction. <i>Letters in Organic Chemistry</i> , 2007, 4, 68-71.	0.2	37
30	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.	0.7	36
31	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.	2.6	36
32	Protein adsorption onto polysaccharides: Comparison of chitosan and chitin polymers. <i>Carbohydrate Polymers</i> , 2018, 191, 191-197.	5.1	36
33	A novel pyridine-based three-component condensation reaction: synthesis of highly substituted quinolizines. <i>Tetrahedron Letters</i> , 2008, 49, 1469-1472.	0.7	34
34	Synthesis of poly( $\epsilon$ -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.	1.8	31
35	Tin(II) Chloride Dihydrate Catalyzed Groebke Condensation: An Efficient Protocol for the Synthesis of 3- $\alpha$ -Aminoimidazo[1,2- $\alpha$ ]pyridines. <i>Chinese Journal of Chemistry</i> , 2009, 27, 369-371.	2.6	30
36	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.	1.5	30

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37	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.	1.8	30
38	Gallic acid-loaded montmorillonite nanostructure as a new controlled release system. <i>Applied Clay Science</i> , 2016, 119, 236-242.	2.6	28
39	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.	2.6	27
40	Synthesis of highly stable unusual charge-separated pyridinium-, isoquinolinium-, quinolinium-, and N-methylimidazolium-tetronic acid zwitterions. <i>Tetrahedron</i> , 2009, 65, 6063-6068.	1.0	26
41	Tungstophosphoric acid (H <sub>3</sub> PW <sub>12</sub> O <sub>40</sub> ) catalyzed oxidation of organic compounds with NaBrO <sub>3</sub> . <i>Catalysis Communications</i> , 2009, 10, 1074-1078.	1.6	25
42	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.	1.9	25
43	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.	2.0	25
44	A Novel Isocyanide-Based Three-Component Condensation Reaction: Synthesis of Fully Substituted Imino- and Spiroiminocyclopentenes. <i>Synlett</i> , 2007, 2007, 1458-1460.	1.0	24
45	Surface functionalization of halloysite nanotubes via curcumin inclusion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 834-840.	2.3	24
46	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.	2.2	24
47	Synthesis and Biological Evaluation of Coumarin Derivatives as Inhibitors of <i>Mycobacterium bovis</i> (BCG). <i>Chemical Biology and Drug Design</i> , 2012, 80, 929-936.	1.5	23
48	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.	1.2	23
49	Synthesis of $\beta$ -Aminophosphonates in the Presence of a Magnetic Recyclable Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> -2mimSO <sub>3</sub> H Nanocatalyst. <i>Bulletin of the Chemical Society of Japan</i> , 2014, 87, 982-987.	2.0	22
50	Glucose reinforced Fe <sub>3</sub> O <sub>4</sub> @cellulose mediated amino acid: Reusable magnetic glyconanoparticles with enhanced bacteria capture efficiency. <i>Carbohydrate Polymers</i> , 2017, 170, 190-197.	5.1	22
51	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.	1.6	19
52	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.	1.6	18
53	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.	2.3	18
54	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.	1.2	17

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55	Comparison of antibody immobilization strategies in detection of <i>Vibrio cholerae</i> by surface plasmon resonance. <i>Biointerphases</i> , 2016, 11, 041006.	0.6	17
56	A biophysical study on the mechanism of interactions of DOX or PTX with $\alpha$ -lactalbumin as a delivery carrier. <i>Scientific Reports</i> , 2018, 8, 17345.	1.6	17
57	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, 270-272.	0.6	16
58	Unexpected Knoevenagel self-condensation reaction of tetronic acid: synthesis of a new class of organic heterocyclic salts. <i>Tetrahedron</i> , 2010, 66, 1911-1914.	1.0	16
59	Label-Free Detection of Digoxin Using Localized Surface Plasmon Resonance-Based Nanobiosensor. <i>Plasmonics</i> , 2017, 12, 157-164.	1.8	16
60	A very fast and easy procedure for the synthesis of metallophthalocyanines. <i>Journal of Porphyrins and Phthalocyanines</i> , 2005, 09, 617-620.	0.4	15
61	Silica-supported cobalt(II) tetrasulfophthalocyanine catalyzed aerobic oxidation of thiols to disulfides under neutral conditions. <i>Monatshefte für Chemie</i> , 2008, 139, 613-615.	0.9	15
62	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.	1.8	15
63	Development of Thiolated Chitosan Nanoparticles Based Mucoadhesive Vaginal Drug Delivery Systems. <i>Polymer Science - Series A</i> , 2017, 59, 858-865.	0.4	15
64	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.	2.1	14
65	Theranostic $\alpha$ -Lactalbumin-Polymer-Based Nanocomposite as a Drug Delivery Carrier for Cancer Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5189-5208.	2.6	14
66	Isocyanide-Catalyzed Reaction of Tetracyanoethylene and Activated 1,3-Dicarbonyl CH <sub>2</sub> Acid Compounds: A Rapid and Efficient Synthesis of Pyran Annulated Heterocyclic Systems. <i>Synthetic Communications</i> , 2008, 38, 274-281.	1.1	12
67	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.	0.9	11
68	Synthesis of pyrido[2,1-b]imidazo[4,5-c]isoquinolines via a one-pot, three-component reaction. <i>Tetrahedron Letters</i> , 2014, 55, 1848-1850.	0.7	11
69	Selective aqueous oxidation of alcohols catalyzed by copper (II) phthalocyanine nanoparticles. <i>Comptes Rendus Chimie</i> , 2016, 19, 314-319.	0.2	11
70	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.	1.7	11
71	Porous MnFe <sub>2</sub> O <sub>4</sub> @SiO <sub>2</sub> magnetic glycopolymer: A multivalent nanostructure for efficient removal of bacteria from aqueous solution. <i>Ecotoxicology and Environmental Safety</i> , 2018, 166, 277-284.	2.9	10
72	Developing new synthetic biomimetic nanocomposite adhesives: Synthesis and evaluation of bond strength and solubilization. <i>Reactive and Functional Polymers</i> , 2018, 127, 85-93.	2.0	9

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73	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.	2.5	9
74	Synthesis and Biological Evaluation of Thiosemicarbazide Derivatives Endowed with High Activity toward. <i>Iranian Journal of Pharmaceutical Research</i> , 2017, 16, 1128-1140.	0.3	9
75	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.	0.7	8
76	Buried-Gate MWCNT FET-Based Nanobiosensing Device for Real-Time Detection of CRP. <i>ACS Omega</i> , 2022, 7, 7341-7349.	1.6	8
77	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.	0.6	7
78	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.	0.6	7
79	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.	0.9	6
80	Stereoselective synthesis of 3,4-dihydro-7-nitrocoumarins via isocyanide-based multicomponent reaction. <i>Comptes Rendus Chimie</i> , 2012, 15, 499-503.	0.2	6
81	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.	0.9	6
82	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.	1.0	6
83	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.	1.2	5
84	Meldrum's Acid Catalyzed Reaction of Tetracyanoethylene and Aldehydes in Water: A Novel Approach to Arylidenemalononitrile. <i>Chemical and Pharmaceutical Bulletin</i> , 2008, 56, 1480-1482.	0.6	4
85	Synthesis and biological evaluation of propargyl acetate derivatives as anti-mycobacterial agents. <i>DARU, Journal of Pharmaceutical Sciences</i> , 2012, 20, 90.	0.9	4
86	A Modified PEG-Fe <sub>3</sub> O <sub>4</sub> Magnetic Nanoparticles Conjugated with D(+)-Glucosamine (DG): MRI Contrast Agent. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2022, 32, 1988-1998.	1.9	4
87	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.	0.1	4
88	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.	0.3	3
89	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.	0.3	3
90	Optimization of Porous Silicon Conditions for DNA-based Biosensing via Reflectometric Interference Spectroscopy. <i>Cell Journal</i> , 2019, 20, 584-591.	0.2	3

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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.	0.9	1
92	( <i>E</i> )-1-(2-Nitrobenzylidene)-4-phenylthiosemicarbazide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o2154-o2154.	0.2	0