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	Buried-Gate MWCNT FET-Based Nanobiosensing Device for Real-Time Detection of CRP. ACS Omega, 2022, 7, 7341-7349.	1.6	8
2	A Modified PEG-Fe3O4 Magnetic Nanoparticles Conjugated with D(â€‰+)Glucosamine (DG): MRI Contrast Agent. Journal of Inorganic and Organometallic Polymers and Materials, 2022, 32, 1988-1998.	1.9	4
3	The process of L-asparaginase encapsulation by poly (lactic-co-glycolic acid) and methoxy poly (ethylene glycol): A molecular dynamics simulation study. Materials Today Communications, 2022, 31, 103435.	0.9	1
4	Improving biocompatibility and corrosion resistance of anodized AZ31 Mg alloy by electrospun chitosan/mineralized bone allograft (MBA) nanocoatings. Surface and Coatings Technology, 2021, 405, 126627.	2.2	24
5	In vitro and in vivo evaluation of a nanofiber wound dressing loaded with melatonin. International Journal of Pharmaceutics, 2021, 596, 120213.	2.6	51
6	Enhance corrosion behavior of AZ31 magnesium alloy by tailoring the anodic oxidation time followed by heat treatment in simulated body fluid. Anti-Corrosion Methods and Materials, 2021, 68, 276-283.	0.6	7
7	Gold nanoparticles anchored onto covalent poly deep eutectic solvent functionalized graphene: An electrochemical aptasensor for the detection of C-reactive protein. Materials Chemistry and Physics, 2021, 269, 124730.	2.0	25
8	Preparation and Evaluation of a Niosomal Drug Delivery System Containing Cefazolin and Study of Its Antibacterial Activity. Iranian Journal of Medical Microbiology, 2021, 15, 638-657.	0.1	4
9	HHC-36 antimicrobial peptide loading on silk fibroin (SF)/hydroxyapatite (HA) nanofibrous-coated titanium for the enhancement of osteoblast and bactericidal functions. International Journal of Polymeric Materials and Polymeric Biomaterials, 2020, 69, 629-639.	1.8	30
10	Whole cell FRET immunosensor based on graphene oxide and graphene dot for Campylobacter jejuni detection. Food Chemistry, 2020, 309, 125690.	4.2	56
11	Controlled Tyrosine Kinase Inhibitor Delivery to Liver Cancer Cells by Gate-Capped Mesoporous Silica Nanoparticles. ACS Applied Bio Materials, 2020, 3, 239-251.	2.3	18
12	Development of chitosan-coated liposome for pulmonary delivery of N-acetylcysteine. International Journal of Biological Macromolecules, 2020, 156, 1455-1463.	3.6	62
13	A lectin-coupled porous silicon-based biosensor: label-free optical detection of bacteria in a real-time mode. Scientific Reports, 2020, 10, 16017.	1.6	49
14	Design, fabrication, and optimization of a dual function three-layer scaffold for controlled release of metformin hydrochloride to alleviate fibrosis and accelerate wound healing. Acta Biomaterialia, 2020, 113, 144-163.	4.1	43
15	Theranostic Î±-Lactalbumin-Polymer-Based Nanocomposite as a Drug Delivery Carrier for Cancer Therapy. ACS Biomaterials Science and Engineering, 2019, 5, 5189-5208.	2.6	14
16	Label-free discrimination of single nucleotide changes in DNA by reflectometric interference Fourier transform spectroscopy. Colloids and Surfaces B: Biointerfaces, 2019, 181, 714-720.	2.5	9
17	Synthesis and evaluation of injectable thermosensitive pentaâ€block copolymer hydrogel (PNIPAAmâ€PCLâ€PEGâ€PCLâ€PNIPAAm) and starâ€shaped poly(CLâ”€COâ”€LA)â€bâ€PEG for wound healing applications. Journal of Cellular Biochemistry, 2019, 120, 17194-17207.	1.2	46
18	Rapid optimization of liposome characteristics using a combined microfluidics and design-of-experiment approach. Drug Delivery and Translational Research, 2019, 9, 404-413.	3.0	56

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19	Optimization of Porous Silicon Conditions for DNA-based Biosensing via Reflectometric Interference Spectroscopy. Cell Journal, 2019, 20, 584-591.	0.2	3
20	Developing new synthetic biomimetic nanocomposite adhesives: Synthesis and evaluation of bond strength and solubilization. Reactive and Functional Polymers, 2018, 127, 85-93.	2.0	9
21	Bioactive composite scaffolds of carboxymethyl chitosan-silk fibroin containing chitosan nanoparticles for sustained release of ascorbic acid. European Polymer Journal, 2018, 103, 40-50.	2.6	27
22	Protein adsorption onto polysaccharides: Comparison of chitosan and chitin polymers. Carbohydrate Polymers, 2018, 191, 191-197.	5.1	36
23	Surface functionalization of halloysite nanotubes via curcumin inclusion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 834-840.	2.3	24
24	A biophysical study on the mechanism of interactions of DOX or PTX with Î±-lactalbumin as a delivery carrier. Scientific Reports, 2018, 8, 17345.	1.6	17
25	Porous MnFe2O4@SiO2 magnetic glycopolymer: A multivalent nanostructure for efficient removal of bacteria from aqueous solution. Ecotoxicology and Environmental Safety, 2018, 166, 277-284.	2.9	10
26	Colorimetric aptasensor for Campylobacter jejuni cells by exploiting the peroxidase like activity of Au@Pd nanoparticles. Mikrochimica Acta, 2018, 185, 448.	2.5	89
27	Combined cerium oxide nanocapping and layer-by-layer coating of porous silicon containers for controlled drug release. Journal of Materials Science, 2018, 53, 14975-14988.	1.7	11
28	Label-Free Detection of Digoxin Using Localized Surface Plasmon Resonance-Based Nanobiosensor. Plasmonics, 2017, 12, 157-164.	1.8	16
29	Synthesis of poly(Îµ-caprolactone)-based polyurethane semi-interpenetrating polymer networks as scaffolds for skin tissue regeneration. International Journal of Polymeric Materials and Polymeric Biomaterials, 2017, 66, 805-811.	1.8	31
30	Enhanced Entrapment and Improved in Vitro Controlled Release of Nâ€Acetyl Cysteine in Hybrid PLGA/Lecithin Nanoparticles Prepared Using a Nanoprecipitation/Selfâ€Assembly Method. Journal of Cellular Biochemistry, 2017, 118, 4203-4209.	1.2	23
31	Glucose reinforced Fe3O4@cellulose mediated amino acid: Reusable magnetic glyconanoparticles with enhanced bacteria capture efficiency. Carbohydrate Polymers, 2017, 170, 190-197.	5.1	22
32	Efficient megalin targeted delivery to renal proximal tubular cells mediated by modified-polymyxin B-polyethylenimine based nano-gene-carriers. Materials Science and Engineering C, 2017, 79, 770-782.	3.8	42
33	Megalin-targeted enhanced transfection efficiency in cultured human HK-2 renal tubular proximal cells using aminoglycoside-carboxyalkyl- polyethylenimine -containing nanoplexes. International Journal of Pharmaceutics, 2017, 523, 102-120.	2.6	36
34	Evaluating the Potential of an Antibody Against Recombinant OmpW Antigen in Detection of Vibrio cholerae by Surface Plasmon Resonance (SPR) Biosensor. Plasmonics, 2017, 12, 1493-1504.	1.8	15
35	FRET- based immunoassay using CdTe and AuNPs for the detection of OmpW antigen of Vibrio cholerae. Journal of Luminescence, 2017, 192, 932-939.	1.5	30
36	Follicle-stimulating hormone encapsulation in the cholesterol-modified chitosan nanoparticles via molecular dynamics simulations and binding free energy calculations. European Journal of Pharmaceutical Sciences, 2017, 107, 126-137.	1.9	25

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37	Development of Thiolated Chitosan Nanoparticles Based Mucoadhesive Vaginal Drug Delivery Systems. Polymer Science - Series A, 2017, 59, 858-865.	0.4	15
38	Synthesis and Characterization of Biodegradable Semi-Interpenetrating Polymer Networks Based on Star-Shaped Copolymers of É›-Caprolactone and Lactide. Iranian Journal of Pharmaceutical Research, 2017, 16, 63-73.	0.3	3
39	Synthesis of Novel Fluorene Bisamide Derivatives via Ugi Reaction and Evaluation their Biological Activity against. Iranian Journal of Pharmaceutical Research, 2017, 16, 745-755.	0.3	3
40	Synthesis and Biological Evaluation of Thiosemicarbazide Derivatives Endowed with High Activity toward. Iranian Journal of Pharmaceutical Research, 2017, 16, 1128-1140.	0.3	9
41	Monodisperse magnetite (Fe3O4) nanoparticles modified with water soluble polymers for the diagnosis of breast cancer by MRI method. Journal of Magnetism and Magnetic Materials, 2016, 420, 210-217.	1.0	73
42	Development of an immunosensor using oriented immobilized anti-OmpW for sensitive detection of Vibrio cholerae by surface plasmon resonance. Biosensors and Bioelectronics, 2016, 86, 484-488.	5.3	43
43	Comparison of antibody immobilization strategies in detection of Vibrio cholerae by surface plasmon resonance. Biointerphases, 2016, 11, 041006.	0.6	17
44	Selective aqueous oxidation of alcohols catalyzed by copper (II) phthalocyanine nanoparticles. Comptes Rendus Chimie, 2016, 19, 314-319.	0.2	11
45	Gallic acid-loaded montmorillonite nanostructure as a new controlled release system. Applied Clay Science, 2016, 119, 236-242.	2.6	28
46	A Novel Label-Free microRNA-155 Detection on the Basis of Fluorescent Silver Nanoclusters. Journal of Fluorescence, 2015, 25, 925-929.	1.3	38
47	Study the N Turnover of Legume Seed Meals for Designing a Slow-Release Nitrogen Fertilizer. Communications in Soil Science and Plant Analysis, 2014, 45, 1325-1335.	0.6	7
48	One-Pot Synthesis of Metallopyrazinoporphyrazines Using 2,3-Diaminomaleonitrile and 1,2-Dicarbonyl Compounds Accelerated by Microwave Irradiation. Organic Chemistry International, 2014, 2014, 1-5.	1.0	6
49	Synthesis of pyrido[2â€²,1â€²:2,3]imidazo[4,5-c]isoquinolines via a one-pot, three-component reaction. Tetrahedron Letters, 2014, 55, 1848-1850.	0.7	11
50	Synthesis of Î±-Aminophosphonates in the Presence of a Magnetic Recyclable Fe3O4@SiO2-2mimSO3H Nanocatalyst. Bulletin of the Chemical Society of Japan, 2014, 87, 982-987.	2.0	22
51	A mild and green chemistry approach for the synthesis of symmetrical spirooxindole derivatives. Journal of the Iranian Chemical Society, 2013, 10, 521-525.	1.2	5
52	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. Monatshefte FÃ¼r Chemie, 2013, 144, 1051-1055.	0.9	6
53	(E)-1-(2-Nitrobenzylidene)-4-phenylthiosemicarbazide. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o2154-o2154.	0.2	0
54	Stereoselective synthesis of 3,4-dihydro-7-nitrocoumarins via isocyanide-based multicomponent reaction. Comptes Rendus Chimie, 2012, 15, 499-503.	0.2	6

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55	Synthesis and Biological Evaluation of Coumarin Derivatives as Inhibitors of Mycobacterium bovis (BCG). Chemical Biology and Drug Design, 2012, 80, 929-936.	1.5	23
56	Synthesis and biological evaluation of propargyl acetate derivatives as anti-mycobacterial agents. DARU, Journal of Pharmaceutical Sciences, 2012, 20, 90.	0.9	4
57	An environmentally benign approach for the synthesis of bifunctional sulfonamide-amide compounds via isocyanide-based multicomponent reactions. Green Chemistry, 2011, 13, 582.	4.6	42
58	A stereoselective three-component reaction: The facile synthesis of fluorinated tetrahydropyrimido[1,2-b]benzothiazoles. Journal of the Iranian Chemical Society, 2011, 8, 24-30.	1.2	17
59	Recent progress of isocyanide-based multicomponent reactions in Iran. Molecular Diversity, 2011, 15, 41-68.	2.1	185
60	Pyridine-Functionalized MCM-41 as an Efficient and Recoverable Catalyst for the Synthesis of Pyran Annulated Heterocyclic Systems. Chemical and Pharmaceutical Bulletin, 2010, 58, 270-272.	0.6	16
61	Unexpected Knoevenagel self-condensation reaction of tetronic acid: synthesis of a new class of organic heterocyclic salts. Tetrahedron, 2010, 66, 1911-1914.	1.0	16
62	An unexpected coupling reaction between isocyanides and carboxylic acids: a method for the synthesis of highly stable symmetrical and unsymmetrical alkylamidine and arylamidine carbocations. Tetrahedron Letters, 2010, 51, 4091-4094.	0.7	8
63	Tin(II) Chloride Dihydrate Catalyzed Groebke Condensation: An Efficient Protocol for the Synthesis of 3â€Aminoimidazo[1,2â€a]pyridines. Chinese Journal of Chemistry, 2009, 27, 369-371.	2.6	30
64	Synthesis of highly stable unusual charge-separated pyridinium-, isoquinolinium-, quinolinium-, and N-methylimidazolium-tetronic acid zwitterions. Tetrahedron, 2009, 65, 6063-6068.	1.0	26
65	Synthesis of fully substituted pyrano[2,3-c]pyrazole derivatives via a multicomponent reaction of isocyanides. Tetrahedron, 2009, 65, 3492-3495.	1.0	66
66	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. Tetrahedron Letters, 2009, 50, 1456-1458.	0.7	36
67	Green chemistry approaches for the synthesis of quinoxaline derivatives: Comparison of ethanol and water in the presence of the reusable catalyst cellulose sulfuric acid. Comptes Rendus Chimie, 2009, 12, 1249-1252.	0.2	44
68	Coumarin synthesis via Knoevenagel condensation reaction in 1,1,3,3-N,N,Nâ€²,Nâ€²-tetramethylguanidinium trifluoroacetate ionic liquid. Journal of the Iranian Chemical Society, 2009, 6, 710-714.	1.2	50
69	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. Organic Letters, 2009, 11, 3342-3345.	2.4	84
70	Synthesis of Highly Functionalized Bis(4H-chromene) and 4H-Benzo[g]chromene Derivatives via an Isocyanide-Based Pseudo-Five-Component Reaction. Journal of Organic Chemistry, 2009, 74, 4372-4374.	1.7	112
71	Novel One-Pot Three- and Pseudo-Five-Component Reactions: Synthesis of Functionalized Benzo[g]- and Dihydropyrano[2,3-g]chromene Derivatives. ACS Combinatorial Science, 2009, 11, 956-959.	3.3	109
72	Tungstophosphoric acid (H3PW12O40) catalyzed oxidation of organic compounds with NaBrO3. Catalysis Communications, 2009, 10, 1074-1078.	1.6	25

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73	A novel method for the synthesis of substituted 3,4-dihydrocoumarin derivatives via isocyanide-based three-component reaction. Molecular Diversity, 2008, 12, 197-202.	2.1	14
74	Silica-supported cobalt(II) tetrasulfophthalocyanine catalyzed aerobic oxidation of thiols to disulfides under neutral conditions. Monatshefte FÃ¼r Chemie, 2008, 139, 613-615.	0.9	15
75	A mild and efficient approach for the selective deprotection of benzyl and phenyl trimethylsilyl ethers in 1-butyl-3-methyl-imidazolium chloride. Monatshefte FÃ¼r Chemie, 2008, 139, 1471-1474.	0.9	6
76	A novel pyridine-based three-component condensation reaction: synthesis of highly substituted quinolizines. Tetrahedron Letters, 2008, 49, 1469-1472.	0.7	34
77	A simple and efficient approach to the synthesis of 4H-furo[3,4-b]pyrans via a three-component reaction of isocyanides. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 3968-3970.	1.0	48
78	Isocyanideâ€Catalyzed Reaction of Tetracyanoethylene and Activated 1,3â€Dicarbonyl CHâ€Acid Compounds: A Rapid and Efficient Synthesis of Pyran Annulated Heterocyclic Systems. Synthetic Communications, 2008, 38, 274-281.	1.1	12
79	Novel Isocyanide-Based Four-Component Reaction: A Facile Synthesis of Fully Substituted 3,4-Dihydrocoumarin Derivatives. Organic Letters, 2008, 10, 2581-2584.	2.4	90
80	Aerobic oxidative deprotection of silyl ethers to carbonyl compounds with cobalt (II) tetrasulfophthalocyanine as a catalyst in ionic liquid. Catalysis Communications, 2008, 10, 129-131.	1.6	19
81	Pyridine catalyzed reaction of tetracyanoethylene and activated 1,3-dicarbonyl CH-acid compounds: A rapid and efficient synthesis of pyran annulated heterocyclic systems. Catalysis Communications, 2008, 9, 1082-1086.	1.6	18
82	Meldrum's Acid Catalyzed Reaction of Tetracyanoethylene and Aldehydes in Water: A Novel Approach to Arylidenemalononitrile. Chemical and Pharmaceutical Bulletin, 2008, 56, 1480-1482.	0.6	4
83	Ionic Liquid/Silica Sulfuric Acid Promoted Fast Synthesis of a Biginelli-Like Scaffold Reaction. Letters in Organic Chemistry, 2007, 4, 68-71.	0.2	37
84	A Novel Isocyanide-Based Three-Component Condensation Reaction: Synthesis of Fully Substituted Imino- and Spiroiminocyclopentenes. Synlett, 2007, 2007, 1458-1460.	1.0	24
85	Silica sulfuric acid promoted selective oxidation of sulfides to sulfoxides or sulfones in the presence of aqueous H2O2. Catalysis Communications, 2007, 8, 1112-1116.	1.6	130
86	A novel approach for the synthesis of alkyl and aryl sulfonamides. Tetrahedron Letters, 2007, 48, 2185-2188.	0.7	59
87	A novel approach for the synthesis of aryl amides. Tetrahedron Letters, 2007, 48, 6137-6141.	0.7	60
88	Microwave assisted synthesis of metal-free phthalocyanine and metallophthalocyanines. Dyes and Pigments, 2007, 74, 279-282.	2.0	53
89	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. QSAR and Combinatorial Science, 2007, 26, 973-979.	1.5	49
90	One-step Synthesis of 3,4-Dihydrobenzimidazo[2,1-b]quinazolin-1(2H)-ones in an Ionic Liquid. Monatshefte FÃ¼r Chemie, 2007, 138, 615-618.	0.9	11

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91	Ultrasound-accelerated Synthesis of 1,4-Dihydropyridines in an Ionic Liquid. Monatshefte FÃ¼r Chemie, 2006, 137, 77-81.	0.9	66
92	A very fast and easy procedure for the synthesis of metallophthalocyanines. Journal of Porphyrins and Phthalocyanines, 2005, 09, 617-620.	0.4	15