

# Rahim Ghadari

## List of Publications by Year in descending order

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72  
papers

1,310  
citations

304368

22  
h-index

395343

33  
g-index

81  
all docs

81  
docs citations

81  
times ranked

1456  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Anthracene-arylamine hole transporting materials for perovskite solar cells. <i>Chemical Communications</i> , 2017, 53, 9558-9561.	2.2	45
5	Thiophene-arylamine Hole-Transporting Materials in Perovskite Solar Cells: Substitution Position Effect. <i>Energy Technology</i> , 2017, 5, 1788-1794.	1.8	44
6	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
7	Ferrocene based nonlinear optical chromophores: synthesis, characterization and study of optical properties. <i>Journal of Molecular Liquids</i> , 2017, 244, 322-329.	2.3	37
8	Modulated bonding interaction in propanediol electrolytes toward stable aqueous zinc-ion batteries. <i>Science China Materials</i> , 2022, 65, 1156-1164.	3.5	37
9	Studies to reveal the nature of interactions between catalase and curcumin using computational methods and optical techniques. <i>International Journal of Biological Macromolecules</i> , 2017, 95, 550-556.	3.6	35
10	Fused tetraphenylethylene-triphenylamine as an efficient hole transporting material in perovskite solar cells. <i>Chemical Communications</i> , 2020, 56, 3159-3162.	2.2	35
11	The inhibitory effect of farnesiferol C against catalase; Kinetics, interaction mechanism and molecular docking simulation. <i>International Journal of Biological Macromolecules</i> , 2018, 113, 1258-1265.	3.6	32
12	Pyridine-triphenylamine hole transport material for inverted perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021, 54, 395-402.	7.1	30
13	Destructive effect of non-enzymatic glycation on catalase and remediation via curcumin. <i>Archives of Biochemistry and Biophysics</i> , 2017, 630, 81-90.	1.4	27
14	Unravelling the structural-electronic impact of arylamine electron-donating antennas on the performances of efficient ruthenium sensitizers for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2017, 346, 71-79.	4.0	26
15	Facile synthesis of simple arylamine-substituted naphthalene derivatives as hole-transporting materials for efficient and stable perovskite solar cells. <i>Journal of Power Sources</i> , 2019, 425, 87-93.	4.0	26
16	Two-dimensional triphenylene cored hole-transporting materials for efficient perovskite solar cells. <i>Chemical Communications</i> , 2020, 56, 1879-1882.	2.2	25
17	C N-based carbazole-arylamine hole transporting materials for perovskite solar cells: Substitution position matters. <i>Journal of Energy Chemistry</i> , 2021, 62, 563-571.	7.1	25
18	Phthalocyanine-silver nanoparticle structures for plasmon-enhanced dye-sensitized solar cells. <i>Solar Energy</i> , 2020, 198, 283-294.	2.9	24

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19	Design, synthesis and characterization of ferrocene based V-shaped chromophores with modified nonlinear effect. <i>Journal of Organometallic Chemistry</i> , 2017, 846, 397-406.	0.8	23
20	Highly efficient ruthenium complexes with acetyl electron-acceptor unit for dye sensitized solar cells. <i>Journal of Power Sources</i> , 2018, 396, 559-565.	4.0	23
21	Ruthenium complexes as sensitizers with phenyl-based bipyridine anchoring ligands for efficient dye-sensitized solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9445-9452.	2.7	23
22	Benzothiadiazole-based hole transport materials for high-efficiency dopant-free perovskite solar cells: Molecular planarity effect. <i>Journal of Energy Chemistry</i> , 2020, 44, 115-120.	7.1	23
23	Synthesis, characterization, and electronic properties of novel Fc-DCM conjugated system; experimental and computational studies. <i>Journal of Organometallic Chemistry</i> , 2016, 811, 14-19.	0.8	22
24	Synthesis of graphene oxide supported copper-cobalt ferrite material functionalized by arginine amino acid as a new high-performance catalyst. <i>Applied Organometallic Chemistry</i> , 2018, 32, e3965.	1.7	22
25	Heteroatom engineering on spiro-type hole transporting materials for perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2022, 67, 19-26.	7.1	22
26	Tetraphenylethylene-Arylamine Derivatives as Hole Transporting Materials for Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 12322-12330.	4.0	21
27	Rhodanine-Furan Bis-Heterocyclic Frameworks Synthesis via Green One-Pot Sequential Six-Component Reactions: A Synthetic and Computational Study. <i>ChemistrySelect</i> , 2019, 4, 11893-11898.	0.7	20
28	Dopant-free benzothiadiazole bridged hole transport materials for highly stable and efficient perovskite solar cells. <i>Dyes and Pigments</i> , 2020, 173, 107954.	2.0	19
29	Enhanced phthalocyanine-sensitized solar cell efficiency via cooperation of nitrogen-doped carbon dots. <i>Journal of Cleaner Production</i> , 2020, 268, 122236.	4.6	19
30	An unexpected route toward the synthesis of spiro-benzo[b]acridine-furan derivatives. <i>Tetrahedron Letters</i> , 2012, 53, 4018-4021.	0.7	18
31	Heteroatom effect on linear-shaped dopant-free hole transporting materials for perovskite solar cells. <i>Solar Energy</i> , 2021, 221, 323-331.	2.9	18
32	A study on the interactions of amino acids with nitrogen doped graphene; docking, MD simulation, and QM/MM studies. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4352-4361.	1.3	17
33	Hole transporting material with passivating group (C N) for perovskite solar cells with improved stability. <i>Dyes and Pigments</i> , 2021, 187, 109129.	2.0	17
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, 270-272.	0.6	16
35	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
36	Comparative Study of Linear and Starburst Ethane-Based Hole-Transporting Materials for Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2020, 124, 2886-2894.	1.5	16

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37	On-water organic synthesis: l-proline catalyzed synthesis of pyrimidine-2,4-dione-, benzo[g]- and dihydropyrano[2,3-g]chromene derivatives in aqueous media. <i>Journal of the Iranian Chemical Society</i> , 2013, 10, 307-317.	1.2	14
38	Introducing ammonium salt into hole transporting materials for perovskite solar cells. <i>Chemical Communications</i> , 2020, 56, 14471-14474.	2.2	14
39	Synthesis of a New Library of Pyrano-phenazine Derivatives via a Novel Three-Component Protocol. <i>Helvetica Chimica Acta</i> , 2014, 97, 228-236.	1.0	12
40	Evaluation of the effect of the chiral centers of Taxol on binding to $\beta$ -tubulin: A docking and molecular dynamics simulation study. <i>Computational Biology and Chemistry</i> , 2015, 56, 33-40.	1.1	12
41	Simply designed nonspiro fluorene-based hole-transporting materials for high performance perovskite solar cells. <i>Synthetic Metals</i> , 2019, 250, 42-48.	2.1	11
42	Insight into Electron-Donating Ancillary Ligands in Ruthenium Terpyridyl Complexes Configuration on Performances of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017, 121, 8752-8759.	1.5	9
43	A computational study on the interactions between a layered imine-based COF structure and selected anticancer drugs. <i>Journal of Molecular Modeling</i> , 2021, 27, 44.	0.8	8
44	A facile three- and four-component procedure toward the synthesis of functionalized pyrano- and benzo[f]quinoxaline derivatives. <i>Molecular Diversity</i> , 2012, 16, 453-461.	2.1	7
45	Computational DFT study on nickel symmetric bis(thiosemicarbazone) complexes: Electronic absorption and redox potentials. <i>Polyhedron</i> , 2019, 160, 35-41.	1.0	7
46	Investigation of substituent effect on the Johnson-Claisen rearrangement: A DFT approach. <i>Computational and Theoretical Chemistry</i> , 2010, 961, 83-87.	1.5	6
47	Nickel-substituted cobalt ferrite nanoparticles supported on arginine-modified graphene oxide nanosheets: Synthesis and catalytic activity. <i>Applied Organometallic Chemistry</i> , 2017, 31, e3859.	1.7	6
48	Molecular tailor-making of zinc phthalocyanines as dopant-free hole-transporting materials for efficient and stable perovskite solar cells. <i>Journal of Power Sources</i> , 2021, 505, 230095.	4.0	6
49	Plasmon-enhanced dye-sensitized solar cells through porphyrin-silver nanoparticle hybrid structures: Experimental and computational studies. <i>Journal of Power Sources</i> , 2021, 511, 230407.	4.0	6
50	The strategy for high-efficiency hole conductors by engineering short-range intramolecular interactions. <i>Dyes and Pigments</i> , 2022, 197, 109889.	2.0	6
51	An in silico study on the ring-size effect in ring enlargement Bellus-Claisen rearrangement. <i>Computational and Theoretical Chemistry</i> , 2012, 981, 25-30.	1.1	5
52	Exploration of the binding properties of the human serum albumin sites with neurology drugs by docking and molecular dynamics simulation. <i>Journal of the Iranian Chemical Society</i> , 2017, 14, 19-35.	1.2	5
53	MD simulation studies on the effect of the temperature and protonation state on the imide-linked amino acid-based dendrimers. <i>Computational Materials Science</i> , 2018, 151, 124-131.	1.4	5
54	Amino Acid Functionalized Single-Wall Carbon Nanotubes in Thermoresponsive Drug Delivery Systems: A Computational Study. <i>ChemistrySelect</i> , 2019, 4, 1516-1524.	0.7	5

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55	A computational study on the mechanism and the transition states of the cyclization of 1-trifluoromethyl-1,3-dicarbonyl compounds with azides to form 1,2,3-triazoles. <i>Computational and Theoretical Chemistry</i> , 2014, 1043, 64-70.	1.1	4
56	Nitrogen doped nanographene structures; study on the adsorption of nucleobases, nucleotides, and their triphosphate derivatives using mixed docking, MD, and QM/MM approaches. <i>Journal of Chemical Physics</i> , 2017, 146, 044105.	1.2	4
57	Synthesis and experimental/theoretical evaluations on redox potentials and electronic absorption spectra for copper symmetric bis(thiosemicarbazone) complexes. <i>Polyhedron</i> , 2018, 151, 221-232.	1.0	4
58	Effect of the substitution position and extending the conjugation in naphthalene-triphenylamine hole transport materials for perovskite solar cells. <i>Synthetic Metals</i> , 2022, 284, 116990.	2.1	4
59	Multifunctional organic semiconductor for dopant-free perovskite solar cells. <i>Synthetic Metals</i> , 2022, 285, 117027.	2.1	4
60	Direct Sulfonation of Methane to Methanesulfonic Acid. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 7685-7686.	1.8	3
61	Investigation of origin of stereo-selectivity of BF <sub>3</sub> ·Et <sub>2</sub> O-promoted allylboration of aldehydes in the presence of (R)-pinanediol by computational method. <i>Computational and Theoretical Chemistry</i> , 2012, 999, 28-33.	1.1	3
62	A density functional theory approach toward substituent effect in Meerwein's "Eschenmoser" Claisen rearrangement. <i>Journal of Molecular Modeling</i> , 2012, 18, 319-328.	0.8	3
63	A computational study on the usability of amino acid-functionalised nitrogen-doped graphene oxides as temperature-responsive drug delivery systems. <i>International Journal of Hyperthermia</i> , 2017, 33, 1-11.	1.1	3
64	Synthesis, spectroscopic characterization, and DFT studies of 1,2,3-triazole-based organosilicon compounds. <i>Journal of Molecular Structure</i> , 2018, 1167, 200-208.	1.8	3
65	In silico study on core-shell pseudodendrimeric glycoside structures in drug delivery related usages. <i>Polyhedron</i> , 2019, 160, 10-19.	1.0	3
66	Exploration of the Binding Properties of the Azo Dye Pollutants with Nitrogen-Doped Graphene Oxide by Computational Modeling for Wastewater Treatment Improvement. <i>ChemistrySelect</i> , 2019, 4, 5968-5978.	0.7	3
67	Effect of COF Presence on DNA Molecular Interactions: A QM/MM and MD Simulations Study. <i>ChemistrySelect</i> , 2021, 6, 9541-9551.	0.7	3
68	A Computational Study on the Blocking Ability of Selected Commercially Available Anticancer Drugs and Their Hypothetic Derivatives on the CCR5. <i>Assay and Drug Development Technologies</i> , 2018, 16, 266-277.	0.6	2
69	Isomeric Doped Dopant-Free Hole Transport Materials: Effect of the Substitution Position and Heteroatom on the Performance of Perovskite Solar Cells. <i>ChemistrySelect</i> , 2022, 7, .	0.7	2
70	In silico study to evaluate the governing criteria in the BF <sub>3</sub> catalyzed Diels-Alder reaction. <i>Computational and Theoretical Chemistry</i> , 2016, 1091, 176-185.	1.1	1
71	The Design of Temperature and pH-Responsive Drug Delivery System Based on Cellulose and Aminated Cellulose by Computational and Experimental Methods. <i>Journal of Computational Biophysics and Chemistry</i> , 2021, 20, 189-200.	1.0	1
72	The role of human CYP2C8 in the metabolizing of montelukast-like compounds: a computational study. <i>Research on Chemical Intermediates</i> , 2017, 43, 4781-4794.	1.3	0