Akram Hosseinian

List of Publications by Year in Descending Order

81 papers	1,967 citations	30 h-index	40 g-index
81 ext. papers	2,204 ext. citations	3.1 avg, IF	5.57 L-index

#	Paper	IF	Citations
81	A computational perspective of novel N-heterocyclic silylenes using density functional theory. *Journal of Physical Organic Chemistry*, **2021**, 34, e4197	2.1	
80	Characterization of IR spectroscopy, APT charge, ESP maps, and AIM analysis of C20 and its C20-nAln heterofullerene analogous (n = 1–5) using DFT. *Journal of Physical Organic Chemistry*, **2021**, 34, e4198	2.1	3
79	A novel biosensor for gabapentin drug detection based on the Pd-decorated aluminum nitride nanotube. *Structural Chemistry*, **2021**, 32, 1961-1971	1.8	6
78	Transition-metal-catalyzed dehydrogenative coupling of alcohols and amines: A novel and atom-economical access to amides. *Journal of the Chinese Chemical Society*, **2021**, 68, 723-737	1.5	18
77	Oxidative trifluoromethyl(thiol/selenol)ation of terminal alkynes: An overview. *Journal of Fluorine Chemistry*, **2021**, 245, 109762	2.1	18
76	Computational study of a B36 borophene as an electronic sensor for the anti-cancer drug cisplatinum. *Journal of Computational Electronics*, **2021**, 20, 635-642	1.8	5
75	A new strategy for the synthesis of 2-mercaptobenzazole derivatives by green chemistry metrics. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2021**, 196, 1-5	1	1
74	Cavity-trapped electrons: lithium doped tetracyano-2,6-naphthoquinodimethane (TNAP) systems. *Journal of Molecular Modeling*, **2020**, 26, 118	2	
73	A DFT study on the sulfanilamide interaction with graphyne-like boron nitride nanosheet. *Journal of Sulfur Chemistry*, **2020**, 41, 483-497	2.3	8
72	A density functional theory outlook on the possible sensing ability of boron nitride nanotubes and their Al- and Si-doped derivatives for sulfonamide drugs. *Journal of Sulfur Chemistry*, **2020**, 41, 82-95	2.3	9
71	Methods for the direct synthesis of thioesters from aldehydes: a focus review. *Journal of Sulfur Chemistry*, **2020**, 41, 96-115	2.3	23
70	Cycloaddition of atmospheric CO to epoxides under solvent-free conditions: a straightforward route to carbonates by green chemistry metrics.. *RSC Advances*, **2019**, 9, 3884-3899	3.7	35
69	Recent advances in the application of nano-catalysts for Hiyama cross-coupling reactions.. *RSC Advances*, **2019**, 9, 3185-3202	3.7	30
68	A DFT study on nanocones, nanotubes (4,0), nanosheets and fullerene C as anodes in Mg-ion batteries.. *RSC Advances*, **2019**, 9, 853-862	3.7	17
67	Cross-dehydrogenative coupling reactions between arenes (C-H) and carboxylic acids (O-H): a straightforward and environmentally benign access to -aryl esters.. *RSC Advances*, **2019**, 9, 17101-17118	3.7	24
66	Synthesis of six-membered cyclic carbamates employing CO2 as building block: A review. *Journal of CO2 Utilization*, **2019**, 33, 37-45	7.6	21
65	Direct C-H trifluoromethylthiolation of (hetero)arenes: A review. *Journal of Fluorine Chemistry*, **2019**, 224, 52-60	2.1	45

64	Recent developments in decarboxylative cross-coupling reactions between carboxylic acids and N-H compounds.. *RSC Advances*, **2019**, 9, 8964-8976	3.7	46
63	Direct C–H bond sulfenylation of (Het)arenes using sulfonyl hydrazides as thiol surrogate: a review. *Journal of Sulfur Chemistry*, **2019**, 40, 289-311	2.3	33
62	Recent trends in direct mono-, di-, and tri-fluoromethyl(thiol)ation of S-H bonds. *Journal of Sulfur Chemistry*, **2019**, 40, 565-585	2.3	17
61	Cross-Dehydrogenative Coupling Reactions Between C(sp)-H and X-H (X = N, P, S, Si, Sn) Bonds: An Environmentally Benign Access to Heteroatom-Substituted Alkynes. *Topics in Current Chemistry*, **2019**, 377, 20	7.2	25
60	Odorless, convenient and one-pot synthesis of thioethers from organic halides and thiourea. *Journal of Sulfur Chemistry*, **2019**, 40, 209-231	2.3	12
59	Transition metal-catalyzed intramolecular cyclization of N-Boc-protected propargyl/ethynyl amines: a novel and convenient access to 2-oxazolidinone/oxazolone derivatives. *Journal of the Iranian Chemical Society*, **2019**, 16, 617-627	2	9
58	Adsorption sensitivity of pristine and Al- or Si-doped boron nitride nanoflake to COCl2: a DFT study. *Molecular Physics*, **2019**, 117, 626-634	1.7	9
57	A walk around the decarboxylative C-S cross-coupling reactions. *Journal of Sulfur Chemistry*, **2019**, 40, 88-112	2.3	34
56	S-arylation of 2-mercaptobenzazoles: a comprehensive review. *Journal of Sulfur Chemistry*, **2018**, 39, 443-463	2.3	26
55	DFT results against experimental data for electronic properties of C and C fullerene derivatives. *Journal of Molecular Graphics and Modelling*, **2018**, 81, 60-67	2.8	15
54	Recent advantages in the metal (bulk and nano)-catalyzed S-arylation reactions of thiols with aryl halides in water: a perfect synergy for eco-compatible preparation of aromatic thioethers. *Journal of Sulfur Chemistry*, **2018**, 39, 332-349	2.3	37
53	Adsorption properties of chloropicrin on pristine and borazine-doped nanographenes: A theoretical study. *Journal of Physics and Chemistry of Solids*, **2018**, 115, 277-282	3.9	12
52	Nanocatalysts for C–e cross-coupling reactions. *RSC Advances*, **2018**, 8, 291-301	3.7	32
51	Three component coupling of amines, alkyl halides and carbon dioxide: An environmentally benign access to carbamate esters (urethanes). *Journal of CO2 Utilization*, **2018**, 24, 361-368	7.6	27
50	Decarboxylative cross-coupling reactions for P(O)-C bond formation.. *RSC Advances*, **2018**, 8, 26383-26398	3.7	35
49	The effect of electric field and Al doping on the sensitivity of hexa-peri-hexabenzocoronene nanographene to chloropicrin. *Applied Organometallic Chemistry*, **2018**, 32, e4486	3.1	9
48	Three-component reaction of amines, epoxides, and carbon dioxide: A straightforward route to organic carbamates. *Journal of CO2 Utilization*, **2018**, 27, 381-389	7.6	40
47	Recent Advances in Synthesis of Functionalized -Lactams through Cyclization of N-Propargyl Amine/Amide Derivatives. *Current Organic Chemistry*, **2018**, 22, 199-205	1.7	17

46	Intramolecular ipso-Cyclization of N-Arylpropiolamides: A Novel and Straightforward Synthetic Approach for Azaspiro[4.5]decatrien-2-ones. *Current Organic Chemistry*, **2018**, 22, 286-297	1.7	18
45	Nano-structured Catalytic Systems in Cyanation of Aryl Halides with K4[Fe(CN)6]. *Current Organic Chemistry*, **2018**, 22, 1862-1874	1.7	5
44	Application of switchable solvent-based liquid phase microextraction for preconcentration and trace detection of cadmium ions in baby food samples. *Journal of the Iranian Chemical Society*, **2018** , 15, 491-498	2	15
43	A Facile and Promising Synthetic Strategy toward Functionalized 2H-Chromenes from Aryl Propargyl Ethers. A Review. *Organic Preparations and Procedures International*, **2018**, 50, 544-564	1.1	2
42	Chemical Fixation of CO2 to Allylic (Allenylic) Amines: A Green Route to Synthesis of Functionalized 2-Oxazolidones. *Mini-Reviews in Organic Chemistry*, **2018**, 15, 315-323	1.7	18
41	Metal Catalyzed Carboxylative Coupling of Terminal Alkynes, Organohalides and Carbon Dioxide: A Novel and Promising Synthetic Strategy Toward 2-Alkynoates (A Review). *Current Organic Chemistry* , **2018**, 22, 315-322	1.7	20
40	Arylhydrazines: novel and versatile electrophilic partners in cross-coupling reactions.. *RSC Advances*, **2018**, 8, 33828-33844	3.7	40
39	Cross-Dehydrogenative C-H/S-H Coupling Reactions. *Topics in Current Chemistry*, **2018**, 376, 39	7.2	55
38	Cross-Dehydrogenative Coupling Reactions Between P(O)-H and X-H (X = S, N, O, P) Bonds. *Topics in Current Chemistry*, **2018**, 376, 23	7.2	49
37	Recent advances in sulfur-nitrogen bond formation cross-dehydrogenative coupling reactions.. *RSC Advances*, **2018**, 8, 18456-18469	3.7	45
36	Advancements in six-membered cyclic carbonate (1,3-dioxan-2-one) synthesis utilizing carbon dioxide as a C1 source.. *RSC Advances*, **2018**, 8, 17976-17988	3.7	39
35	Transition-metal-catalyzed CN cross-coupling reactions of N-unsubstituted sulfoximines: a review. *Journal of Sulfur Chemistry*, **2018**, 39, 674-698	2.3	48
34	New protocols to access imidazoles and their ring fused analogues: synthesis from N-propargylamines. *RSC Advances*, **2017**, 7, 7079-7091	3.7	56
33	A theoretical study on the electronic sensitivity of the pristine and Al-doped B24N24 nanoclusters to F2CO and Cl2CO gases. *Structural Chemistry*, **2017**, 28, 1919-1926	1.8	5
32	Intramolecular cyclization of N-allyl propiolamides: a facile synthetic route to highly substituted lactams (a review). *RSC Advances*, **2017**, 7, 28407-28418	3.7	35
31	Chemical fixation of CO 2 to N -propargylamines: A straightforward route to 2-oxazolidinones. *Journal of CO2 Utilization*, **2017**, 19, 120-129	7.6	80
30	Yolk-Shell Fe3O4-Polyaniline Decorated Pd-Ni Nanoparticles with Enhanced Performance for Direct Formic Acid Fuel Cell. *Nano*, **2017**, 12, 1750016	1.1	3
29	Intramolecular Cyclization of N-Arylpropiolamides: A New Strategy for the Synthesis of Functionalized 2-Quinolones. *Current Organic Chemistry*, **2017**, 21,	1.7	10

28	Intramolecular cyclization of N-propargyl anilines: a new synthetic entry into highly substituted indoles. *Journal of the Iranian Chemical Society*, **2017**, 14, 2339-2353	2	15
27	Chemical fixation of CO2 to 2-aminobenzonitriles: A straightforward route to quinazoline-2,4(1H,3H)-diones with green and sustainable chemistry perspectives. *Journal of CO2 Utilization*, **2017**, 21, 342-352	7.6	56
26	Chemical fixation of CO2 with aniline derivatives: A new avenue to the synthesis of functionalized azole compounds (A review). *Journal of CO2 Utilization*, **2017**, 21, 480-490	7.6	34
25	Nanocatalysts for chemical transformation of carbon dioxide. *Journal of CO2 Utilization*, **2017**, 21, 491-502	7.6	56
24	Transition metal-catalyzed [2 + 2 + 2] cycloaddition of nitrogen-linked 1,6-diynes: a straightforward route to fused pyrrolidine systems. *RSC Advances*, **2017**, 7, 43716-43736	3.7	35
23	Nanocomposite of ZIF-67 metal□organic framework with reduced graphene oxide nanosheets for high-performance supercapacitor applications. *Journal of Materials Science: Materials in Electronics*, **2017**, 28, 18040-18048	2.1	47
22	Three-component coupling of CO2, propargyl alcohols, and amines: An environmentally benign access to cyclic and acyclic carbamates (A Review). *Journal of CO2 Utilization*, **2017**, 21, 108-118	7.6	62
21	Adsorption and decomposition of formaldehyde on the B12N12 nanostructure: a density functional theory study. *Monatshefte F□ Chemie*, **2017**, 148, 1727-1731	1.4	16
20	A Density Functional Theory Study on the Interaction Between 5-Fluorouracil Drug and C24 Fullerene. *Journal of Cluster Science*, **2017**, 28, 2681-2692	3	14
19	Investigation of pH effect on the hydrothermal synthesis of highly efficient ZnO nanostructures as photocatalyst. *Inorganic and Nano-Metal Chemistry*, **2017**, 47, 302-307	1.2	4
18	Selective sensing of ozone and the chemically active gaseous species of the troposphere by using the C fullerene and graphene segment. *Talanta*, **2017**, 162, 505-510	6.2	43
17	A Simple and Efficient Synthesis of 4-Arylacridinediones and 6-Aryldiindeno[1,2-b:2,1-e]pyridinediones using CuI Nanoparticles as Catalyst under Solvent-Free Conditions. *Combinatorial Chemistry and High Throughput Screening*, **2017**, 20, 773-780	1.3	5
16	New Page to Access Pyrazines and their Ring Fused Analogues: Synthesis from N-Propargylamines. *Current Organic Synthesis*, **2017**, 14, 557-567	1.9	31
15	New page to access pyridine derivatives: synthesis from N-propargylamines. *RSC Advances*, **2016**, 6, 71662-71675	3.7	66
14	Insight into the intermolecular interactions in the NF3□SO system: a computational study. *Journal of Sulfur Chemistry*, **2016**, 37, 674-682	2.3	
13	Novel routes to quinoline derivatives from N-propargylamines. *RSC Advances*, **2016**, 6, 49730-49746	3.7	66
12	New route to 1,4-oxazepane and 1,4-diazepane derivatives: synthesis from N-propargylamines. *RSC Advances*, **2016**, 6, 99781-99793	3.7	44
11	Possibility of sensing, adsorbing, and destructing the Tabun-2D-skeletal (Tabun nerve agent) by C20 fullerene and its boron and nitrogen doped derivatives. *Synthetic Metals*, **2016**, 220, 606-611	3.6	49

10	Simultaneous Determination of Deltamethrin and Permethrin in Water Samples Using Homogeneous Liquid–liquid Microextraction via Flotation Assistance and GC-FID. *Chromatographia*, **2014**, 77, 715-721	2.1	14
9	Application of Solid-Phase Extraction Coupled with Dispersive Liquid–liquid Microextraction for the Determination of Benzaldehyde in Injectable Formulation Solutions. *Chromatographia*, **2014**, 77, 951-955	2.1	8
8	Thermolysis preparation of ZnS nanoparticles from a nano-structure bithiazole zinc(II) coordination compound. *Journal of Molecular Structure*, **2014**, 1074, 673-678	3.4	5
7	Synthesis and characterization of nano-scale of a new azido Co(II) complex as single and nano-scale crystals: Bithiazole precursor for the preparation of Co3O4 nano-structures. *Journal of Molecular Structure*, **2012**, 1028, 215-221	3.4	21
6	Nanoparticles of a new zinc(II) coordination polymer: synthesis, characterization, thermal, and structural studies. *Journal of Coordination Chemistry*, **2012**, 65, 2623-2633	1.6	9
5	Synthesis, structural characterization and thermal properties of a new Cd(II) complex: As bithiazole precursor for preparation of CdS nanoparticles. *Journal of Molecular Structure*, **2011**, 985, 270-276	3.4	13
4	Synthesis and thermal, fluorescence and structural studies of mixed-ligand lead(II) complexes with 2,2?-diamino-5,5?-dimethyl-4,4?-bithiazole. *Journal of Coordination Chemistry*, **2010**, 63, 4245-4258	1.6	3
3	Five Coordinated Zinc(II) and Tris-Chelate Cadmium(II) Complexes with 2,2?-Diamino-5,5?-dimethyl-4,4?-bithiazole – Syntheses, Spectroscopic Characterization, and Crystal Structure. *Zeitschrift Fur Anorganische Und Allgemeine Chemie*, **2006**, 632, 2505-2509	1.3	8
2	Study the Adsorption of Letrozole Drug on the Silicon Doped Graphdiyne Monolayer: a DFT Investigation. *Silicon*,1	2.4	2
1	The interaction between ethionamide and pristine, Si-, Ga-, and Al-doped boron nitride nanoflakes: A computational study. *Journal of Sulfur Chemistry*,1-17	2.3	0