Assoc Prof Dr Jamal Rafique

List of Publications by Citations

60 papers	1,406 citations	25 h-index	36 g-index
73 ext. papers	1,722 ext. citations	4.4 avg, IF	4.9 L-index

#	Paper	IF	Citations
60	Regioselective, Solvent- and Metal-Free Chalcogenation of Imidazo[1,2-a]pyridines by Employing I2 /DMSO as the Catalytic Oxidation System. *Chemistry - A European Journal*, **2016**, 22, 11854-62	4.8	127
59	Direct, Metal-free C(sp)-H Chalcogenation of Indoles and Imidazopyridines with Dichalcogenides Catalysed by KIO. *Chemistry - A European Journal*, **2018**, 24, 4173-4180	4.8	87
58	Rose Bengal catalysed photo-induced selenylation of indoles, imidazoles and arenes: a metal free approach. *Organic and Biomolecular Chemistry*, **2018**, 16, 880-885	3.9	79
57	DMSO/iodine-catalyzed oxidative C□Se/C□S bond formation: a regioselective synthesis of unsymmetrical chalcogenides with nitrogen- or oxygen-containing arenes. *Catalysis Science and Technology*, **2016**, 6, 3087-3098	5.5	61
56	Aflatoxin M1 in human breast milk: A global systematic review, meta-analysis, and risk assessment study (Monte Carlo simulation). *Trends in Food Science and Technology*, **2019**, 88, 333-342	15.3	58
55	Synthesis of Unsymmetrical Diorganyl Chalcogenides under Greener Conditions: Use of an Iodine/DMSO System, Solvent- and Metal-Free Approach. *Advanced Synthesis and Catalysis*, **2015**, 357, 1446-1452	5.6	56
54	Synthesis and structural characterisation of the aggregates of benzo-1,2-chalcogenazole 2-oxides. *Dalton Transactions*, **2017**, 46, 6570-6579	4.3	49
53	Synthesis and evaluation of dihydropyrimidinone-derived selenoesters as multi-targeted directed compounds against Alzheimer□s disease. *Bioorganic and Medicinal Chemistry*, **2016**, 24, 5762-5770	3.4	49
52	Solvent- and Metal-Free Chalcogenation of Bicyclic Arenes Using I2/DMSO as Non-Metallic Catalytic System. *European Journal of Organic Chemistry*, **2017**, 2017, 4740-4748	3.2	47
51	NH4I-catalyzed chalcogen(S/Se)-functionalization of 5-membered N-heteroaryls under metal-free conditions. *Tetrahedron*, **2018**, 74, 3971-3980	2.4	38
50	Metal- and Solvent-Free Approach to Access 3-Se/S-Chromones from the Cyclization of Enaminones in the Presence of Dichalcogenides Catalyzed by KIO. *ACS Omega*, **2017**, 2, 2280-2290	3.9	37
49	KIO3-Catalyzed C(sp2)-H Bond Selenylation/Sulfenylation of (Hetero)arenes: Synthesis of Chalcogenated (Hetero)arenes and their Evaluation for Anti-Alzheimer Activity. *Asian Journal of Organic Chemistry*, **2018**, 7, 1819-1824	3	37
48	Copper-Catalyzed Synthesis of Unsymmetrical Diorganyl Chalcogenides (Te/Se/S) from Boronic Acids under Solvent-Free Conditions. *Molecules*, **2017**, 22,	4.8	36
47	Synthesis of Functionalized Organoselenium Materials: Selenides and Diselenides Containing Cholesterol. *European Journal of Organic Chemistry*, **2015**, 2015, 3470-3476	3.2	35
46	Solvent- and metal-free selective oxidation of thiols to disulfides using I2/DMSO catalytic system. *Tetrahedron Letters*, **2017**, 58, 4713-4716	2	32
45	Novel selenylated imidazo[1,2-a]pyridines for breast cancer chemotherapy: Inhibition of cell proliferation by Akt-mediated regulation, DNA cleavage and apoptosis. *Biochemical and Biophysical Research Communications*, **2018**, 503, 1291-1297	3.4	31
44	Synthesis and biological evaluation of 2-picolylamide-based diselenides with non-bonded interactions. *Molecules*, **2015**, 20, 10095-109	4.8	31

43	K2CO3-mediated, direct C–H bond selenation and thiolation of 1,3,4-oxadiazoles in the absence of metal catalyst: an eco-friendly approach. *RSC Advances*, **2014**, 4, 51648-51652	3.7	30
42	Fe3O4 Nanoparticles: A Robust and Magnetically Recoverable Catalyst for Direct C-H Bond Selenylation and Sulfenylation of Benzothiazoles. *ChemistrySelect*, **2018**, 3, 328-334	1.8	29
41	Synthesis of Selenium-Quinone Hybrid Compounds with Potential Antitumor Activity via Rh-Catalyzed C-H Bond Activation and Click Reactions. *Molecules*, **2017**, 23,	4.8	29
40	Trihaloisocyanuric acids in ethanol: an eco-friendly system for the regioselective halogenation of imidazo-heteroarenes. *Green Chemistry*, **2020**, 22, 3410-3415	10	29
39	Electrochemical synthesis of selenyl-dihydrofurans via anodic selenofunctionalization of allyl-naphthol/phenol derivatives and their anti-Alzheimer activity. *Organic and Biomolecular Chemistry*, **2020**, 18, 4916-4921	3.9	28
38	Borophosphate glasses: Synthesis, characterization and application as catalyst for bis(indolyl)methanes synthesis under greener conditions. *Journal of Non-Crystalline Solids*, **2018**, 498, 153-159	3.9	28
37	Electrochemical Oxidative C(sp2)–H Bond Selenylation of Activated Arenes. *European Journal of Organic Chemistry*, **2019**, 2019, 6465-6469	3.2	25
36	Antioxidant and Antiplasmodial Activities of Bergenin and 11-O-Galloylbergenin Isolated from Mallotus philippensis. *Oxidative Medicine and Cellular Longevity*, **2016**, 2016, 1051925	6.7	25
35	Recent Advances in the Synthesis of Biologically Relevant Selenium-containing 5-Membered Heterocycles. *Current Organic Chemistry*, **2015**, 20, 166-188	1.7	24
34	Photoinduced, Direct C(sp)-H Bond Azo Coupling of Imidazoheteroarenes and Imidazoanilines with Aryl Diazonium Salts Catalyzed by Eosin Y. *Chemistry - A European Journal*, **2020**, 26, 4461-4466	4.8	24
33	Rice straw ash extract, an efficient solvent for regioselective hydrothiolation of alkynes. *Environmental Chemistry Letters*, **2019**, 17, 1441-1446	13.3	23
32	Regioselective hydrothiolation of terminal acetylene catalyzed by magnetite (Fe3O4) nanoparticles. *Synthetic Communications*, **2017**, 47, 291-298	1.7	21
31	Copper-Catalyzed Three-Component Reaction of Oxadiazoles, Elemental Se/S and Aryl Iodides: Synthesis of Chalcogenyl (Se/S)-Oxadiazoles. *ChemistrySelect*, **2018**, 3, 13191-13196	1.8	21
30	The Thiol-Modifier Effects of Organoselenium Compounds and Their Cytoprotective Actions in Neuronal Cells. *Neurochemical Research*, **2021**, 46, 120-130	4.6	18
29	Ytterbium (III) triflate/Sodium Dodecyl Sulfate: A Versatile Recyclable and Water-Tolerant Catalyst for the Synthesis of Bis(indolyl)methanes (BIMs). *ChemistrySelect*, **2018**, 3, 6358-6363	1.8	17
28	Solvent-Free Fmoc Protection of Amines Under Microwave Irradiation. *Asian Journal of Organic Chemistry*, **2013**, 2, 746-749	3	15
27	Antiplasmodial isoflavanones from the roots of Sophora mollis. *Journal of Natural Products*, **2009**, 72, 1265-8	4.9	14
26	The antifungal activity of Sarcococca saligna ethanol extract and its combination effect with fluconazole against different resistant Aspergillus species. *Applied Biochemistry and Biotechnology*, **2010**, 162, 127-33	3.2	13

25	Selenylated-oxadiazoles as promising DNA intercalators: Synthesis, electronic structure, DNA interaction and cleavage. *Dyes and Pigments*, **2020**, 180, 108519	4.6	12
24	Borophosphate glass as an active media for CuO nanoparticle growth: an efficient catalyst for selenylation of oxadiazoles and application in redox reactions. *Scientific Reports*, **2020**, 10, 15233	4.9	10
23	A selanylimidazopyridine (3-SePh-IP) reverses the prodepressant- and anxiogenic-like effects of a high-fat/high-fructose diet in mice. *Journal of Pharmacy and Pharmacology*, **2021**, 73, 673-681	4.8	9
22	Light-Mediated Seleno-Functionalization of Organic Molecules: Recent Advances. *Chemical Record*, **2021**, 21, 2739-2761	6.6	9
21	Synthesis of 2,1,3-Benzoxadiazole Derivatives as New Fluorophores-Combined Experimental, Optical, Electro, and Theoretical Study. *Frontiers in Chemistry*, **2020**, 8, 360	5	8
20	Chemical constituents from the aerial parts of Sophora mollis. *Chemistry of Natural Compounds*, **2009**, 45, 896-897	0.7	8
19	Synthesis of Novel Selenocyanates and Evaluation of Their Effect in Cultured Mouse Neurons Submitted to Oxidative Stress. *Oxidative Medicine and Cellular Longevity*, **2020**, 2020, 5417024	6.7	8
18	Apoptosis oxidative damage-mediated and antiproliferative effect of selenylated imidazo[1,2-a]pyridines on hepatocellular carcinoma HepG2 cells and in vivo. *Journal of Biochemical and Molecular Toxicology*, **2021**, 35, e22663	3.4	6
17	Catalytic Antioxidant Activity of Bis-Aniline-Derived Diselenides as GPx Mimics. *Molecules*, **2021**, 26,	4.8	5
16	KIO -mediated Selective Hydroxymethylation/Methylenation of Imidazo-Heteroarenes: A Greener Approach. *Angewandte Chemie - International Edition*, **2021**, 60, 18454-18460	16.4	5
15	New long-chain donor-acceptor-donor pyromellitic diimide (PMDI) derivatives. A combined theoretical and experimental study. *Dyes and Pigments*, **2018**, 157, 143-150	4.6	4
14	Synthesis of cardanol-based 1,2,3-triazoles as potential green agents against neoplastic cells. *Sustainable Chemistry and Pharmacy*, **2021**, 20, 100408	3.9	3
13	Synthesis of new monodendrons, gallic acid derivatives, self- assembled in a columnar phase. *Liquid Crystals*, **2015**, 1-13	2.3	2
12	Synthesis of Biologically Relevant Small Molecules Containing Selenium. Part A. Antioxidant Compounds **2013**,		2
11	KIO4-mediated Selective Hydroxymethylation/Methylenation of Imidazo-Heteroarenes: A Greener Approach. *Angewandte Chemie*, **2021**, 133, 18602-18608	3.6	2
10	Frontispiece: Photoinduced, Direct C(sp2)H Bond Azo Coupling of Imidazoheteroarenes and Imidazoanilines with Aryl Diazonium Salts Catalyzed by Eosin Y. *Chemistry - A European Journal*, **2020**, 26,	4.8	1
9	Synthesis of Biologically Relevant Small Molecules Containing Selenium. Part B. Anti-infective and Anticancer Compounds **2014**, 1-66		1
8	Synthesis of Biologically Relevant Small Molecules Containing Selenium. Part C. Miscellaneous Biological Activities **2014**, 1-56		1

List of Publications

7	2-[(1R*,4R*)-1,4-Dihy-droxy-cyclo-hex-yl]acetic acid. *Acta Crystallographica Section E: Structure Reports Online*, **2011**, 67, o968		1
6	Antimicrobial and Antibiofilm Activities of 4,5-Dihydro-1H-pyrazole-1-carboximidamide Hydrochloride against Salmonella spp.. *Journal of Chemistry*, **2021**, 2021, 1-9	2.3	1
5	Alkyl 2-(2-(arylidene)alkylhydrazinyl)thiazole-4-carboxylates: Synthesis, acetyl cholinesterase inhibition and docking studies. *Journal of Molecular Structure*, **2021**, 1245, 131063	3.4	1
4	Synthesis of cholesterol containing unsymmetrical dimers: a new series of liquid crystals. *Liquid Crystals*,1-11	2.3	1
3	Straightforward synthesis of cytosporone analogs AMS35AA and AMS35BB. *Anais Da Academia Brasileira De Ciencias*, **2021**, 93, e20201347	1.4	0
2	IP-Se-06, a Selenylated Imidazo[1,2-]pyridine, Modulates Intracellular Redox State and Causes Akt/mTOR/HIF-1 and MAPK Signaling Inhibition, Promoting Antiproliferative Effect and Apoptosis in Glioblastoma Cells.. *Oxidative Medicine and Cellular Longevity*, **2022**, 2022, 3710449	6.7	0
1	Advances in photochemical seleno-functionalization of (hetero)arenes **2022**, 123-145		