Sangit Kumar

List of Publications by Year
in descending order

77 papers	3,396 citations	117453 34 h-index	155451 55 g-index
96 all docs	96 docs citations	96 times ranked	2994 citing authors

#	Article	IF	Citations
1	Transition-Metal-Free Synthesis of Unsymmetrical Diaryl Chalcogenides from Arenes and Diaryl Dichalcogenides. Journal of Organic Chemistry, 2013, 78, 1434-1443.	1.7	178
2	Microwave-Assisted Copper-Catalyzed Preparation of Diaryl Chalcogenides. Journal of Organic Chemistry, 2006, 71, 5400-5403.	1.7	172
3	KO^tBu Mediated Synthesis of Phenanthridinones and Dibenzoazepinones. Organic Letters, 2012, 14, 2838-2841.	2.4	142
4	Visible-light-induced oxidant and metal-free dehydrogenative cascade trifluoromethylation and oxidation of 1,6-enynes with water. Chemical Science, 2017, 8, 6633-6644.	3.7	124
5	Cu-Catalyzed Efficient Synthetic Methodology for Ebselen and Related Seâ^'N Heterocycles. Organic Letters, 2010, 12, 5394-5397.	2.4	118
6	Visible-light-induced metal and reagent-free oxidative coupling of sp² Câ€“H bonds with organo-dichalcogenides: synthesis of 3-organochalcogenyl indoles. Green Chemistry, 2019, 21, 2670-2676.	4.6	97
7	Multifunctional Antioxidants: Regenerable Radicalâ€Trapping and Hydroperoxideâ€Decomposing Ebselenols. Angewandte Chemie - International Edition, 2016, 55, 3729-3733.	7.2	96
8	Intramolecularly Coordinated Diorganyl Ditellurides:Â Thiol Peroxidase-like Antioxidants. Organometallics, 2002, 21, 884-892.	1.1	95
9	Metal free sulfenylation and bis-sulfenylation of indoles: persulfate mediated synthesis. Organic and Biomolecular Chemistry, 2013, 11, 8036.	1.5	95
10	Regenerable Chain-Breaking 2,3-Dihydrobenzo[b]selenophene-5-ol Antioxidants. Journal of Organic Chemistry, 2007, 72, 2583-2595.	1.7	88
11	Transition metal free intramolecular selective oxidative C(sp³)â€“N coupling: synthesis of N-aryl-isoindolinones from 2-alkylbenzamides. Chemical Communications, 2015, 51, 1371-1374.	2.2	88
12	Transition-Metal-Free Selective Oxidative C(sp³)â€“S/Se Coupling of Oxindoles, Tetralone, and Arylacetamides: Synthesis of Unsymmetrical Organochalcogenides. Organic Letters, 2017, 19, 774-777.	2.4	84
13	Isoselenazolones as Catalysts for the Activation of Bromine: Bromolactonization of Alkenoic Acids and Oxidation of Alcohols. Journal of Organic Chemistry, 2012, 77, 9541-9552.	1.7	83
14	Catalytic Chain-Breaking Pyridinol Antioxidants. Journal of Organic Chemistry, 2010, 75, 716-725.	1.7	82
15	A convenient and efficient copper-catalyzed synthesis of unsymmetrical and symmetrical diaryl chalcogenides from arylboronic acids in ethanol at room temperature. Tetrahedron, 2014, 70, 1763-1772.	1.0	80
16	Antioxidant Profile of Ethoxyquin and Some of Its S, Se, and Te Analogues. Journal of Organic Chemistry, 2007, 72, 6046-6055.	1.7	68
17	Chelate Ring Size Effect on the Reactivity of [2-(2-Phenyl-5,6-dihydro-4H-1,3-oxazinyl)]lithium and SeÂ·Â·Â·N Interactions in Low-Valent Organoselenium Compounds:â€‰ Facile Isolation of Diorganotriselenide. Organometallics, 2004, 23, 4199-4208.	1.1	67
18	KO^tBu-Mediated Aerobic Transition-Metal-Free Regioselective Î²-Arylation of Indoles: Synthesis of Î²-(2-/4-Nitroaryl)-indoles. Organic Letters, 2015, 17, 82-85.	2.4	66

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19	KO^tBu-Mediated Synthesis of Dimethylisoindolin-1-ones and Dimethyl-5-phenylisoindolin-1-ones: Selective Câ€“C Coupling of an Unreactive Tertiary sp³ Câ€“H Bond. Journal of Organic Chemistry, 2014, 79, 2944-2954.	1.7	65
20	Organoselenium and DMAP co-catalysis: regioselective synthesis of medium-sized halolactones and bromooxepanes from unactivated alkenes. Chemical Communications, 2016, 52, 4179-4182.	2.2	63
21	Copper-catalyzed trifluoromethylation of alkenes: synthesis of trifluoromethylated benzoxazines. Organic and Biomolecular Chemistry, 2015, 13, 8411-8415.	1.5	61
22	An ebselen like catalyst with enhanced GPx activity via a selenol intermediate. Organic and Biomolecular Chemistry, 2014, 12, 1215-1219.	1.5	58
23	Copper catalyzed/mediated synthetic methodology for ebselen and related isoselenazolones. Tetrahedron, 2011, 67, 9565-9575.	1.0	56
24	Copper-Catalyzed 8-Aminoquinoline Assisted Aryl Chalcogenation of Ferroceneamide with Aryl Disulfides, Diselenides, and Ditellurides. Journal of Organic Chemistry, 2018, 83, 8241-8249.	1.7	55
25	Thioredoxin reductase and cancer cell growth inhibition by organogold(III) compounds. Anti-Cancer Drugs, 2006, 17, 539-544.	0.7	52
26	Selective Oxidative Decarbonylative Cleavage of Unstrained C(sp³)â€“C(sp²) Bond: Synthesis of Substituted Benzoxazinones. Organic Letters, 2016, 18, 4388-4391.	2.4	48
27	An efficient copper mediated synthetic methodology for benzo[d]isothiazol-3(2H)-ones and related sulfurâ€“nitrogen heterocycles. Tetrahedron Letters, 2012, 53, 1354-1357.	0.7	47
28	Organoselenium small molecules as catalysts for the oxidative functionalization of organic molecules. New Journal of Chemistry, 2019, 43, 8852-8864.	1.4	47
29	Ebsulfur Is a Benzisothiazolone Cytocidal Inhibitor Targeting the Trypanothione Reductase of Trypanosoma brucei. Journal of Biological Chemistry, 2013, 288, 27456-27468.	1.6	46
30	Protection against Peroxynitrite-Mediated Nitration Reaction by Intramolecularly Coordinated Diorganoselenides. Organometallics, 2006, 25, 382-393.	1.1	45
31	Potassium tert-butoxide-mediated synthesis of unsymmetrical diaryl ethers, sulfidesÂand selenides from aryl bromides. Tetrahedron, 2013, 69, 5383-5392.	1.0	45
32	Catalytic Chain-Breaking Pyridinol Antioxidants. Organic Letters, 2008, 10, 4895-4898.	2.4	43
33	Synthesis, reactivity, electrochemical and crystallographic studies of diferrocenoyl diselenide and ferrocenoyl selenides. Journal of Organometallic Chemistry, 2004, 689, 3046-3055.	0.8	40
34	Palladium-Catalyzed Removable 8-Aminoquinoline Assisted Chemo- and Regioselective Oxidative sp²-Câ€“H/sp³-Câ€“H Cross-Coupling of Ferrocene with Toluene Derivatives. Organic Letters, 2017, 19, 5960-5963.	2.4	40
35	An Organodiselenide with Dual Mimic Function of Sulfhydryl Oxidases and Glutathione Peroxidases: Aerial Oxidation of Organothiols to Organodisulfides. Organic Letters, 2018, 20, 6274-6278.	2.4	39
36	Synthesis of organochalcogens stabilized by intramolecular non-bonded interactions of sterically unhindered 2-phenyl-2-oxazolineElectronic supplementary information (ESI) available: 77Se NMR spectrum of 14, molecular structure of 16 and packing diagram of 15. See http://www.rsc.org/suppdata/nj/b3/b312364b/. New Journal of Chemistry, 2004, 28, 640.	1.4	37

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37	Palladiumâ€Catalyzed Cï¿¿H Functionalization of Ferrocenecarboxylic Acid by using 8â€Aminoquinoline as a Removable Directing Group. Advanced Synthesis and Catalysis, 2016, 358, 240-253.	2.1	36
38	Synthesis of Unsymmetrical Diaryl Acetamides, Benzofurans, Benzophenones, and Xanthenes by Transition-Metal-Free Oxidative Cross-Coupling of sp³ and sp² Câ€“H Bonds. Journal of Organic Chemistry, 2016, 81, 9206-9218.	1.7	35
39	AMVN-initiated expedient synthesis of biaryls by the coupling reaction of unactivated arenes and heteroarenes with aryl iodides. New Journal of Chemistry, 2014, 38, 827.	1.4	33
40	Transitionâ€metalâ€free Chemoselective Oxidative Câˆ'C Coupling of the sp³ Câˆ'H Bond of Oxindoles with Arenes and Addition to Alkene: Synthesis of 3â€Aryl Oxindoles, and Benzofuroâ€and Indoloindoles. Chemistry - an Asian Journal, 2017, 12, 734-743.	1.7	32
41	Influence of Both Steric Effects and TeÂ·Â·Â·N Intramolecular Nonbonded Interactions on the Stabilization of Organotellurium Compounds Incorporating [2-[1-(3,5-Dimethylphenyl)-2-naphthyl]-4,5-dihydro-4,4-dimethyloxazole]. Organometallics, 2003, 22, 5069-5078.	1.1	31
42	Sensitive and regenerable organochalcogen probes for the colorimetric detection of thiols. RSC Advances, 2014, 4, 11535-11538.	1.7	29
43	A New Reaction for Organoselenium Compounds: Alkyl Transfer from Diorganoselenium(IV) Dibromides to Alkenoic Acids To Give Î³- and Î´-Lactones. Organometallics, 2009, 28, 3426-3436.	1.1	28
44	Synthesis, Structural Characterization and Fluorescence Properties of Organoselenium Compounds Bearing a Ligand Containing Both Bulky and Nonbonding Groupsâ€' The First Observation of Both Intramolecular SeÂ·Â·Â·N and SeÂ·Â·Â·O Interactions in a Diselenide Structure. European Journal of Inorganic Chemistry, 2004, 2004, 1014-1023.	1.0	27
45	Dispersion Stabilized Se/TeÂ·Â·Â·Ï€ Double Chalcogen Bonding Synthons in in Situ Cryocrystallized Divalent Organochalcogen Liquids. Crystal Growth and Design, 2018, 18, 3734-3739.	1.4	27
46	Structural aspects of some organoselenium compounds. Structural Chemistry, 2007, 18, 127-132.	1.0	25
47	Chemoselective arylation of phenols with bromo-nitroarenes: synthesis of nitro-biaryl-ols and their conversion into benzofurans and carbazoles. Chemical Communications, 2014, 50, 9481-9484.	2.2	22
48	Multifunctional Antioxidants: Regenerable Radicalâ€Trapping and Hydroperoxideâ€Decomposing Ebselenols. Angewandte Chemie, 2016, 128, 3793-3797.	1.6	22
49	Insights into selenylation of imidazo[1,2-a]pyridine: synthesis, structural and antimicrobial evaluation. New Journal of Chemistry, 2017, 41, 2919-2926.	1.4	21
50	Copper-Mediated Selective Mono- and Sequential Organochalcogenation of Câ€“H Bonds: Synthesis of Hybrid Unsymmetrical Aryl Ferrocene Chalcogenides. Journal of Organic Chemistry, 2019, 84, 6669-6678.	1.7	21
51	Exploring the simultaneous Ïƒ-hole/Ï€-hole bonding characteristics of a Br...Ï€ interaction in an ebselen derivative via experimental and theoretical electron-density analysis. IUCrJ, 2018, 5, 647-653.	1.0	19
52	Multifunctional Ebselen drug functions through the activation of DNA damage response and alterations in nuclear proteins. Biochemical Pharmacology, 2012, 83, 296-303.	2.0	18
53	Regioselective transition metal- and halogen-free direct dithiolation at C(sp³)â€“H of nitrotoluenes with diaryl disulfides. Organic and Biomolecular Chemistry, 2016, 14, 9210-9214.	1.5	18
54	An efficient copper-catalyzed synthesis of symmetrical bis(N-arylbenzamide) selenides and their conversion to hypervalent spirodiazaselenuranes and hydroxy congeners. Dalton Transactions, 2019, 48, 7249-7260.	1.6	18

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55	Transitionâ€Metalâ€Free Synthesis of Nâ€Substituted Phenanthridinones and Spiroâ€isoindolinones: C(sp 2) Tj ETQq1 1 0.784314 rgBT 105-110.	1.3	18
56	A Highly Efficient Copper-Catalyzed Method for the Synthesis of 2-Hydroxybenzamides in Water. Synthesis, 2012, 44, 1417-1426.	1.2	17
57	Synthesis of Novel C 2-Symmetric Sulfur-Based Catalysts: Asymmetric Formation of Halo- and Seleno-Functionalized Normal- and Medium-Sized Rings. Synlett, 2019, 30, 1667-1672.	1.0	17
58	8â€Aminoquinolineâ€Assisted Synthesis and Crystal Structure Studies of Ferrocenyl Aryl Sulfones. Chemistry - an Asian Journal, 2019, 14, 4807-4813.	1.7	14
59	Tetravalent Spiroselenurane Catalysts: Intramolecular SeÂ·Â·Â·N Chalcogen Bond-Driven Catalytic Disproportionation of H₂O₂ to H₂O and O₂ and Activation of I₂ and NBS. Inorganic Chemistry, 2022, 61, 8729-8745.	1.9	14
60	KOtBu-mediated annulation of acetonitrile with aldehyde: synthesis of substituted dihydropyridin-2(1H)-ones, pyridin-2(1H)-ones, and thiopyridin-2(1H)-ones. Chemical Communications, 2015, 51, 11658-11661.	2.2	12
61	Synthesis and characterization of [2-(2-phenyl-5,6-dihydro-4H-1,3-oxazinyl)] tellurenyl chloride. Journal of Organometallic Chemistry, 2005, 690, 3149-3153.	0.8	11
62	Synthesis and structural characterization of monomeric mercury(<scp>ii</scp>) selenolate complexes derived from 2-phenylbenzamide ligands. Dalton Transactions, 2016, 45, 4030-4040.	1.6	11
63	Synthesis of Chiral-Substituted 2-Aryl-ferrocenes by the Catellani Reaction. Journal of Organic Chemistry, 2020, 85, 14866-14878.	1.7	11
64	Radical Chain Breaking Bis(orthoâ€organoselenium) Substituted Phenolic Antioxidants. Chemistry - an Asian Journal, 2021, 16, 966-973.	1.7	11
65	Synthesis, structural analysis, antimicrobial evaluation and synergistic studies of imidazo[1,2-a]pyrimidine chalcogenides. RSC Advances, 2016, 6, 114224-114234.	1.7	10
66	Thiol peroxidase-like activity of some intramolecularly coordinated diorganyl diselenides. Journal of Chemical Sciences, 2005, 117, 621-628.	0.7	9
67	Double functionalization of 2-amino-2â€²-hydroxy-1,1â€²-biaryls: synthesis of 4-nitro-dibenzofurans and benzofuro-indoles. RSC Advances, 2015, 5, 44728-44741.	1.7	9
68	Janus -faced oxidant and antioxidant profiles of organo diselenides. Dalton Transactions, 2021, 50, 14576-14594.	1.6	9
69	Silver-mediated thio-acetoxylation and TFA triggered cyclization of amino disulfides with unactivated alkenes: synthesis of 3-aryl/alkyl-1,4-benzothiazines. RSC Advances, 2015, 5, 75881-75888.	1.7	8
70	Isolation of monomeric copper(<scp>ii</scp>) phenolate selenoether complexes using chelating ortho-bisphenylselenide-phenolate ligands and their electrocatalytic hydrogen gas evolution activity. Dalton Transactions, 2022, 51, 7284-7293.	1.6	8
71	A base-free copper-assisted synthesis of C₂-symmetric spirotelluranes and biaryls based on divergent stoichiometry of Na₂Te. Chemical Communications, 2022, 58, 7050-7053.	2.2	8
72	Synthesis and characterization of fused imidazole heterocyclic selenoesters and their application for chemical detoxification of HgCl₂. New Journal of Chemistry, 2018, 42, 2702-2710.	1.4	7

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73	Organoseleniums: Generated and Exploited in Oxidative Reactions. Chemistry Letters, 2020, 49, 395-408.	0.7	7
74	Cinchona-Alkaloids Based Isoselenazolones: Synthesis and Their Catalytic Reactivity in Asymmetric Bromolactonization of Alkenoic Acid. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2016, 86, 589-600.	0.8	5
75	Crystal Structure Studies on Some of Benzamide Ring Substituted Isoselenazolones and Symmetric Diaryl Monoselenides Derived from Benzamides. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2014, 84, 165-177.	0.8	3
76	Proton reduction by a bimetallic zinc selenolate electrocatalyst. RSC Advances, 2022, 12, 3801-3808.	1.7	3
77	Structural and Reactivity Aspects of Organoselenium and Tellurium Cations. Proceedings of the National Academy of Sciences India Section A - Physical Sciences, 2016, 86, 465-498.	0.8	2