

Sangit Kumar

List of Publications by Year in descending order

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77
papers

3,396
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117625

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citing authors

#	ARTICLE	IF	CITATIONS
1	Transition-Metal-Free Synthesis of Unsymmetrical Diaryl Chalcogenides from Arenes and Diaryl Dichalcogenides. <i>Journal of Organic Chemistry</i> , 2013, 78, 1434-1443.	3.2	178
2	Microwave-Assisted Copper-Catalyzed Preparation of Diaryl Chalcogenides. <i>Journal of Organic Chemistry</i> , 2006, 71, 5400-5403.	3.2	172
3	KO ^t Bu Mediated Synthesis of Phenanthridinones and Dibenzazepinones. <i>Organic Letters</i> , 2012, 14, 2838-2841.	4.6	142
4	Visible-light-induced oxidant and metal-free dehydrogenative cascade trifluoromethylation and oxidation of 1,6-enynes with water. <i>Chemical Science</i> , 2017, 8, 6633-6644.	7.4	124
5	Cu-Catalyzed Efficient Synthetic Methodology for Ebselen and Related Se ^{IV} N Heterocycles. <i>Organic Letters</i> , 2010, 12, 5394-5397.	4.6	118
6	Visible-light-induced metal and reagent-free oxidative coupling of C ^{sp2} -H bonds with organo-dichalcogenides: synthesis of 3-organochalcogenyl indoles. <i>Green Chemistry</i> , 2019, 21, 2670-2676.	9.0	97
7	Multifunctional Antioxidants: Regenerable Radical Trapping and Hydroperoxide Decomposing Ebselenols. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3729-3733.	13.8	96
8	Intramolecularly Coordinated Diorganyl Ditellurides: Thiol Peroxidase-like Antioxidants. <i>Organometallics</i> , 2002, 21, 884-892.	2.3	95
9	Metal free sulfenylation and bis-sulfenylation of indoles: persulfate mediated synthesis. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 8036.	2.8	95
10	Regenerable Chain-Breaking 2,3-Dihydrobenzo[b]selenophene-5-ol Antioxidants. <i>Journal of Organic Chemistry</i> , 2007, 72, 2583-2595.	3.2	88
11	Transition metal free intramolecular selective oxidative C ^{sp3} -N coupling: synthesis of N-aryl-isoindolinones from 2-alkylbenzamides. <i>Chemical Communications</i> , 2015, 51, 1371-1374.	4.1	88
12	Transition-Metal-Free Selective Oxidative C ^{sp3} -S/Se Coupling of Oxindoles, Tetralone, and Arylacetamides: Synthesis of Unsymmetrical Organochalcogenides. <i>Organic Letters</i> , 2017, 19, 774-777.	4.6	84
13	Isoselenazolones as Catalysts for the Activation of Bromine: Bromolactonization of Alkenoic Acids and Oxidation of Alcohols. <i>Journal of Organic Chemistry</i> , 2012, 77, 9541-9552.	3.2	83
14	Catalytic Chain-Breaking Pyridinol Antioxidants. <i>Journal of Organic Chemistry</i> , 2010, 75, 716-725.	3.2	82
15	A convenient and efficient copper-catalyzed synthesis of unsymmetrical and symmetrical diaryl chalcogenides from arylboronic acids in ethanol at room temperature. <i>Tetrahedron</i> , 2014, 70, 1763-1772.	1.9	80
16	Antioxidant Profile of Ethoxyquin and Some of Its S, Se, and Te Analogues. <i>Journal of Organic Chemistry</i> , 2007, 72, 6046-6055.	3.2	68
17	Chelate Ring Size Effect on the Reactivity of [2-(2-Phenyl-5,6-dihydro-4H-1,3-oxazinyl)]lithium and Se ^{IV} -N Interactions in Low-Valent Organoselenium Compounds: Facile Isolation of Diorganotriseselenide. <i>Organometallics</i> , 2004, 23, 4199-4208.	2.3	67
18	KO ^t Bu-Mediated Aerobic Transition-Metal-Free Regioselective I ² -Arylation of Indoles: Synthesis of I ² -(2-/4-Nitroaryl)-indoles. <i>Organic Letters</i> , 2015, 17, 82-85.	4.6	66

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19	KO ^t -Mediated Synthesis of Dimethylisoindolin-1-ones and Dimethyl-5-phenylisoindolin-1-ones: Selective C–C Coupling of an Unreactive Tertiary sp ³ C–H Bond. <i>Journal of Organic Chemistry</i> , 2014, 79, 2944-2954.	3.2	65
20	Organoselenium and DMAP co-catalysis: regioselective synthesis of medium-sized halolactones and bromooxepanes from unactivated alkenes. <i>Chemical Communications</i> , 2016, 52, 4179-4182.	4.1	63
21	Copper-catalyzed trifluoromethylation of alkenes: synthesis of trifluoromethylated benzoxazines. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 8411-8415.	2.8	61
22	An ebselen like catalyst with enhanced GPx activity via a selenol intermediate. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 1215-1219.	2.8	58
23	Copper catalyzed/mediated synthetic methodology for ebselen and related isoselenazolones. <i>Tetrahedron</i> , 2011, 67, 9565-9575.	1.9	56
24	Copper-Catalyzed 8-Aminoquinoline Assisted Aryl Chalcogenation of Ferroceneamide with Aryl Disulfides, Diselenides, and Ditellurides. <i>Journal of Organic Chemistry</i> , 2018, 83, 8241-8249.	3.2	55
25	Thioredoxin reductase and cancer cell growth inhibition by organogold(III) compounds. <i>Anti-Cancer Drugs</i> , 2006, 17, 539-544.	1.4	52
26	Selective Oxidative Decarbonylative Cleavage of Unstrained C(sp ³)–C(sp ²) Bond: Synthesis of Substituted Benzoxazinones. <i>Organic Letters</i> , 2016, 18, 4388-4391.	4.6	48
27	An efficient copper mediated synthetic methodology for benzo[d]isothiazol-3(2H)-ones and related sulfur–nitrogen heterocycles. <i>Tetrahedron Letters</i> , 2012, 53, 1354-1357.	1.4	47
28	Organoselenium small molecules as catalysts for the oxidative functionalization of organic molecules. <i>New Journal of Chemistry</i> , 2019, 43, 8852-8864.	2.8	47
29	Ebsulfur Is a Benzisothiazolone Cytocidal Inhibitor Targeting the Trypanothione Reductase of <i>Trypanosoma brucei</i> . <i>Journal of Biological Chemistry</i> , 2013, 288, 27456-27468.	3.4	46
30	Protection against Peroxynitrite-Mediated Nitration Reaction by Intramolecularly Coordinated Diorganoselenides. <i>Organometallics</i> , 2006, 25, 382-393.	2.3	45
31	Potassium tert-butoxide-mediated synthesis of unsymmetrical diaryl ethers, sulfides and selenides from aryl bromides. <i>Tetrahedron</i> , 2013, 69, 5383-5392.	1.9	45
32	Catalytic Chain-Breaking Pyridinol Antioxidants. <i>Organic Letters</i> , 2008, 10, 4895-4898.	4.6	43
33	Synthesis, reactivity, electrochemical and crystallographic studies of diferrocenoyl diselenide and ferrocenoyl selenides. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 3046-3055.	1.8	40
34	Palladium-Catalyzed Removable 8-Aminoquinoline Assisted Chemo- and Regioselective Oxidative C(sp ²)–H/C(sp ³)–H Cross-Coupling of Ferrocene with Toluene Derivatives. <i>Organic Letters</i> , 2017, 19, 5960-5963.	4.6	40
35	An Organodiselenide with Dual Mimic Function of Sulfhydryl Oxidases and Glutathione Peroxidases: Aerial Oxidation of Organothiols to Organodisulfides. <i>Organic Letters</i> , 2018, 20, 6274-6278.	4.6	39
36	Synthesis of organochalcogens stabilized by intramolecular non-bonded interactions of sterically unhindered 2-phenyl-2-oxazoline. Electronic supplementary information (ESI) available: ⁷⁷ Se NMR spectrum of 14, molecular structure of 16 and packing diagram of 15. See http://www.rsc.org/suppdata/nj/b3/b312364b/ . <i>New Journal of Chemistry</i> , 2004, 28, 640.	2.8	37

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37	Palladium-Catalyzed C-H Functionalization of Ferrocenecarboxylic Acid by using 8-Aminoquinoline as a Removable Directing Group. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 240-253.	4.3	36
38	Synthesis of Unsymmetrical Diaryl Acetamides, Benzofurans, Benzophenones, and Xanthenes by Transition-Metal-Free Oxidative Cross-Coupling of sp^3 and sp^2 C-H Bonds. <i>Journal of Organic Chemistry</i> , 2016, 81, 9206-9218.	3.2	35
39	AMVN-initiated expedient synthesis of biaryls by the coupling reaction of unactivated arenes and heteroarenes with aryl iodides. <i>New Journal of Chemistry</i> , 2014, 38, 827.	2.8	33
40	Transition-metal-free Chemoselective Oxidative C-C Coupling of the sp^3 C-H Bond of Oxindoles with Arenes and Addition to Alkene: Synthesis of Aryl Oxindoles, and Benzofuro- and Indoloindoles. <i>Chemistry - an Asian Journal</i> , 2017, 12, 734-743.	3.3	32
41	Influence of Both Steric Effects and Te-N Intramolecular Nonbonded Interactions on the Stabilization of Organotellurium Compounds Incorporating [2-[1-(3,5-Dimethylphenyl)-2-naphthyl]-4,5-dihydro-4,4-dimethyl-oxazole]. <i>Organometallics</i> , 2003, 22, 5069-5078.	2.3	31
42	Sensitive and regenerable organochalcogen probes for the colorimetric detection of thiols. <i>RSC Advances</i> , 2014, 4, 11535-11538.	3.6	29
43	A New Reaction for Organoselenium Compounds: Alkyl Transfer from Diorganoselenium(IV) Dibromides to Alkenoic Acids To Give β - and γ -Lactones. <i>Organometallics</i> , 2009, 28, 3426-3436.	2.3	28
44	Synthesis, Structural Characterization and Fluorescence Properties of Organoselenium Compounds Bearing a Ligand Containing Both Bulky and Nonbonding Groups: The First Observation of Both Intramolecular Se-N and Se-O Interactions in a Diselenide Structure. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 1014-1023.	2.0	27
45	Dispersion Stabilized Se/Te Double Chalcogen Bonding Synthons in in Situ Cryocrystallized Divalent Organochalcogen Liquids. <i>Crystal Growth and Design</i> , 2018, 18, 3734-3739.	3.0	27
46	Structural aspects of some organoselenium compounds. <i>Structural Chemistry</i> , 2007, 18, 127-132.	2.0	25
47	Chemoselective arylation of phenols with bromo-nitroarenes: synthesis of nitro-biaryl-ols and their conversion into benzofurans and carbazoles. <i>Chemical Communications</i> , 2014, 50, 9481-9484.	4.1	22
48	Multifunctional Antioxidants: Regenerable Radical-Trapping and Hydroperoxide-Decomposing Ebselenols. <i>Angewandte Chemie</i> , 2016, 128, 3793-3797.	2.0	22
49	Insights into selenylation of imidazo[1,2-a]pyridine: synthesis, structural and antimicrobial evaluation. <i>New Journal of Chemistry</i> , 2017, 41, 2919-2926.	2.8	21
50	Copper-Mediated Selective Mono- and Sequential Organochalcogenation of C-H Bonds: Synthesis of Hybrid Unsymmetrical Aryl Ferrocene Chalcogenides. <i>Journal of Organic Chemistry</i> , 2019, 84, 6669-6678.	3.2	21
51	Exploring the simultaneous σ -hole/ π -hole bonding characteristics of a Br... interaction in an ebselen derivative via experimental and theoretical electron-density analysis. <i>IUCr</i> , 2018, 5, 647-653.	2.2	19
52	Multifunctional Ebselen drug functions through the activation of DNA damage response and alterations in nuclear proteins. <i>Biochemical Pharmacology</i> , 2012, 83, 296-303.	4.4	18
53	Regioselective transition metal- and halogen-free direct dithiolation at $\text{C}(\text{sp}^3)$ -H of nitrotoluenes with diaryl disulfides. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 9210-9214.	2.8	18
54	An efficient copper-catalyzed synthesis of symmetrical bis(N-arylbenzamide) selenides and their conversion to hypervalent spirodiazaselenuranes and hydroxy congeners. <i>Dalton Transactions</i> , 2019, 48, 7249-7260.	3.3	18

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55	Transition-Metal-Free Synthesis of <i>N</i> -Substituted Phenanthridinones and Spiroisoindolinones: C(sp ²)-Tj-ETQq1 1 0.784314 r g B 105-110.	2.7	18
56	A Highly Efficient Copper-Catalyzed Method for the Synthesis of 2-Hydroxybenzamides in Water. <i>Synthesis</i> , 2012, 44, 1417-1426.	2.3	17
57	Synthesis of Novel C-2-Symmetric Sulfur-Based Catalysts: Asymmetric Formation of Halo- and Seleno-Functionalized Normal- and Medium-Sized Rings. <i>Synlett</i> , 2019, 30, 1667-1672.	1.8	17
58	8-Aminoquinoline-Assisted Synthesis and Crystal Structure Studies of Ferrocenyl Aryl Sulfones. <i>Chemistry - an Asian Journal</i> , 2019, 14, 4807-4813.	3.3	14
59	Tetravalent Spiroselenurane Catalysts: Intramolecular Se- \hat{A} -N Chalcogen Bond-Driven Catalytic Disproportionation of H ₂ O ₂ to H ₂ O and O ₂ and Activation of I ₂ and NBS. <i>Inorganic Chemistry</i> , 2022, 61, 8729-8745.	4.0	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. <i>Chemical Communications</i> , 2015, 51, 11658-11661.	4.1	12
61	Synthesis and characterization of [2-(2-phenyl-5,6-dihydro-4H-1,3-oxazinyl)] tellurenyl chloride. <i>Journal of Organometallic Chemistry</i> , 2005, 690, 3149-3153.	1.8	11
62	Synthesis and structural characterization of monomeric mercury(<i>ii</i>) selenolate complexes derived from 2-phenylbenzamide ligands. <i>Dalton Transactions</i> , 2016, 45, 4030-4040.	3.3	11
63	Synthesis of Chiral-Substituted 2-Aryl-ferrocenes by the Catellani Reaction. <i>Journal of Organic Chemistry</i> , 2020, 85, 14866-14878.	3.2	11
64	Radical Chain Breaking Bis(<i>ortho</i> -organoselenium) Substituted Phenolic Antioxidants. <i>Chemistry - an Asian Journal</i> , 2021, 16, 966-973.	3.3	11
65	Synthesis, structural analysis, antimicrobial evaluation and synergistic studies of imidazo[1,2- <i>a</i>]pyrimidine chalcogenides. <i>RSC Advances</i> , 2016, 6, 114224-114234.	3.6	10
66	Thiol peroxidase-like activity of some intramolecularly coordinated diorganyl diselenides. <i>Journal of Chemical Sciences</i> , 2005, 117, 621-628.	1.5	9
67	Double functionalization of 2-amino-2-hydroxy-1,1-biaryls: synthesis of 4-nitro-dibenzofurans and benzofuro-indoles. <i>RSC Advances</i> , 2015, 5, 44728-44741.	3.6	9
68	Janus-faced oxidant and antioxidant profiles of organo diselenides. <i>Dalton Transactions</i> , 2021, 50, 14576-14594.	3.3	9
69	Silver-mediated thio-acetoxylation and TFA triggered cyclization of amino disulfides with unactivated alkenes: synthesis of 3-aryl/alkyl-1,4-benzothiazines. <i>RSC Advances</i> , 2015, 5, 75881-75888.	3.6	8
70	Isolation of monomeric copper(<i>ii</i>) phenolate selenoether complexes using chelating <i>ortho</i> -bisphenylselenide-phenolate ligands and their electrocatalytic hydrogen gas evolution activity. <i>Dalton Transactions</i> , 2022, 51, 7284-7293.	3.3	8
71	A base-free copper-assisted synthesis of <i>C</i> -symmetric spirotelluranes and biaryls based on divergent stoichiometry of Na ₂ Te. <i>Chemical Communications</i> , 2022, 58, 7050-7053.	4.1	8
72	Synthesis and characterization of fused imidazole heterocyclic selenoesters and their application for chemical detoxification of HgCl ₂ . <i>New Journal of Chemistry</i> , 2018, 42, 2702-2710.	2.8	7

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73	Organoseleniums: Generated and Exploited in Oxidative Reactions. Chemistry Letters, 2020, 49, 395-408.	1.3	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.	1.2	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.	1.2	3
76	Proton reduction by a bimetallic zinc selenolate electrocatalyst. RSC Advances, 2022, 12, 3801-3808.	3.6	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.	1.2	2