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Transition-metal-catalyzed C-S, C-Se, and C-Te bond formation via cross-coupling and atom-economic addition reactions

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848	Manganese-catalyzed regiospecific sp(3) C-S bond formation through C-C bond cleavage of cyclobutanols. <b>2016</b> , 52, 8160-3	39
847	Copper-Catalyzed 8-Aminoquinoline-Directed Selenylation of Arene and Heteroarene C-H Bonds. <b>2016</b> , 18, 3202-5	73
846	Photoredox Catalysis in Nickel-Catalyzed Cross-Coupling. <b>2016</b> , 374, 39	47
845	Facile Access to Fluoroaromatic Molecules by Transition-Metal-Free C-F Bond Cleavage of Polyfluoroarenes: An Efficient, Green, and Sustainable Protocol. <b>2016</b> , 16, 667-87	19
844	WittigHorner mediated synthesis of 4-vinyl sulfide derivatives of pyrazoles. <b>2016</b> , 57, 3349-3353	6
843	Catalyst-Free Isothiocyanatoalkylthiation of Styrenes with (Alkylthio)pyrrolidine-2,5-diones and Trimethylsilyl Isothiocyanate. <b>2016</b> , 358, 1794-1800	13
842	Convenient Synthesis of Novel Quinazoline Congeners via Copper Catalyzed C <sub>8</sub> /C <sub>8</sub> Coupling and Their Biological Evaluation. <b>2016</b> , 53, 209-219	2
841	Graphene oxide: a promising carbocatalyst for the regioselective thiocyanation of aromatic amines, phenols, anisols and enolizable ketones by hydrogen peroxide/KSCN in water. <b>2016</b> , 40, 2547-2553	72
840	Photoredox Mediated Nickel Catalyzed Cross-Coupling of Thiols With Aryl and Heteroaryl Iodides via Thiyl Radicals. <b>2016</b> , 138, 1760-3	269
839	Synthesis of 2-amino-substituted-1,3,4-thiadiazoles via 2,3-dichloro-5,6-dicyano-1,4-benzoquinone (DDQ) mediated intramolecular C <sub>8</sub> bond formation in thiosemicarbazones. <b>2016</b> , 57, 1044-1047	16
838	Copper-catalyzed domino synthesis of benzo[b]thiophene/imidazo[1,2-a]pyridines by sequential Ullmann-type coupling and intramolecular C(sp <sup>2</sup> ) <sub>8</sub> thiolation. <b>2016</b> , 3, 66-70	29
837	An Efficient One-Pot Synthesis of 2-Amino-1,3,4-Selenadiazoles. <b>2016</b> , 40, 178-181	2
836	Copper-Mediated Sulfonylation of Aryl C(sp <sup>2</sup> ) <sub>8</sub> H Bonds with Sodium and Lithium Sulfinates. <b>2016</b> , 358, 159-163	37
835	Rhodium-catalyzed alkylation of ketones and alcohols with alcohols. <b>2016</b> , 86, 178-183	18
834	Sulfuration of the C(sp <sup>2</sup> )-H bond of enamines: a protocol for the synthesis of thioether using elemental sulfur as a sulfuring reagent. <b>2016</b> , 14, 2993-9	13
833	Efficient and simple preparation of functionalized 1,1-dibromo-enol phosphates. <b>2016</b> , 147, 405-412	6
832	Simple and efficient copper-catalyzed synthesis of symmetrical diaryl selenides from triarylbismuthanes and selenium under aerobic conditions. <b>2016</b> , 807, 11-16	14
831	Thioetherification via Photoredox/Nickel Dual Catalysis. <b>2016</b> , 18, 876-9	136

830	Approach for 2-(aryltio)imidazoles and imidazo[2,1-b]thiazoles from imidazo[2,1-b][1,3,4]thiadiazoles by ring-opening and -reconstruction. <b>2016</b> , 14, 2978-84	11
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828	Ligand-Controlled Divergent Cross-Coupling Involving Organosilicon Compounds for Thioether and Thioester Synthesis. <b>2016</b> , 18, 1550-3	81
827	Copper-Catalyzed Oxysulfonylation of Enolates with Sodium Sulfinates: A Strategy To Construct Sulfonylated Cyclic Ethers. <b>2016</b> , 18, 1158-61	39
826	The involvement of the trisulfur radical anion in electron-catalyzed sulfur insertion reactions: facile synthesis of benzothiazine derivatives under transition metal-free conditions. <b>2016</b> , 7, 4067-4072	86
825	Redox-induced C-C bond formation reaction between mono-o-amidophenolate tin complexes and allylhalides. <b>2016</b> , 803, 51-57	15
824	A facile, one-pot procedure for the conversion of aromatic aldehydes to esters, as well as thioesters and amides, via acyl hydrazide intermediates. <b>2016</b> , 6, 3372-3376	12
823	Pd-Catalyzed Synthesis of Aryl and Heteroaryl Triflones from Reactions of Sodium Triflate with Aryl (Heteroaryl) Triflates. <b>2016</b> , 81, 1285-94	34
822	Copper-catalyzed synthesis of benzo[b]thiophene-fused imidazopyridines via the cleavage of C-H bond and C-C bond. <b>2016</b> , 57, 574-577	23
821	Efficient Cu-catalyzed one-pot odorless synthesis of sulfides from triphenyltin chloride, aryl halides and S <sub>8</sub> in PEG. <b>2016</b> , 57, 192-195	38
820	Palladium-Catalyzed Markovnikov-Selective Hydroselelenation of N-Vinyl Lactams with Selenols Affording N,Se-Acetals. <b>2016</b> , 81, 324-9	8
819	Iodine-catalyzed thiolation of electron-rich aromatics using sulfonyl hydrazides as sulfonylation reagents. <b>2016</b> , 14, 1131-7	52
818	Chemoselective cross-coupling reaction of sodium sulfinates with phenols under aqueous conditions. <b>2016</b> , 18, 1538-1546	98
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816	An efficient metal-free pathway to vinyl thioesters with calcium carbide as the acetylene source. <b>2016</b> , 18, 482-486	54
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813	A conjugate Lewis base-Brønsted acid catalyst for the sulfonylation of nitrogen containing heterocycles under mild conditions. <b>2017</b> , 53, 1494-1497	47

812	Understanding active species in catalytic transformations: From molecular catalysis to nanoparticles, leaching, cocktails of catalysts and dynamic systems. <b>2017</b> , 346, 2-19	223
811	Palladium-catalyzed dehydrogenation of dihydro-heterocycles using isoprene as the hydrogen acceptor without oxidants. <b>2017</b> , 7, 565-569	4
810	Recent developments in sulfur-carbon bond formation reaction involving thiosulfates. <b>2017</b> , 15, 1942-1946	103
809	Piperidine Promoted Direct Sulfenylation of 2-Naphthol with Aryl Thiols under Aqueous Conditions. <b>2017</b> , 2, 428-431	17
808	Late-Stage Diversification of Non-Steroidal Anti-Inflammatory Drugs by Transition Metal-Catalyzed C-H Alkenylations, Thiolations and Selenylations. <b>2017</b> , 359, 966-973	50
807	Domino Synthesis of Thiochromenes through Cu-Catalyzed Incorporation of Sulfur Using Xanthate Surrogate. <b>2017</b> , 82, 1936-1942	24
806	Copper-Catalyzed C(sp)-S Bond and C(sp)-S Bond Cross-Coupling of 2-(2-Iodobenzoyl) Substituted or 2-(2-Iodobenzyl) Substituted 1,2,3,4-Tetrahydroisoquinolines with Potassium Sulfide: Synthesis of Isoquinoline-Fused 1,3-Benzothiazine Scaffolds. <b>2017</b> , 82, 2263-2268	30
805	Copper-Catalyzed Three Component Regio- and Stereospecific Selenosulfonation of Alkynes: Synthesis of (E)-Selenovinyl Sulfones. <b>2017</b> , 82, 2269-2275	43
804	Copper-Catalyzed Remote C-H Sulfonylation of 8-Aminoquinoline Amides with Arylsulfonyl Hydrazides. <b>2017</b> , 2, 1979-1982	23
803	C-S cross-coupling of aryl halides with alkyl thiols catalyzed by in-situ generated nickel(II) N-heterocyclic carbene complexes. <b>2017</b> , 96, 11-14	17
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797	Unsymmetrical disulfide and sulfenamide synthesis via reactions of thiosulfonates with thiols or amines. <b>2017</b> , 73, 2030-2035	27
796	Copper-catalyzed regioselective 1,2-thioamidation of alkenes. <b>2017</b> , 53, 3450-3453	29
795	Copper-Promoted Thiolation of C(sp <sup>2</sup> )-C Bonds Using a 2-Amino Alkylbenzimidazole Directing Group. <b>2017</b> , 2017, 2280-2289	27

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791	Iron(ii)-catalyzed sulfur directed C(sp)-H bond amination/C-S cross coupling reaction. <b>2017</b> , 53, 2737-2739	13
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789	Synthesis of Thiosulfonates via CuI-Catalyzed Reductive Coupling of Arenesulfonyl Chlorides Using Na <sub>2</sub> SO <sub>3</sub> or NaHSO <sub>3</sub> as Reductants. <b>2017</b> , 6, 677-681	24
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777	Photo-induced copper-catalyzed C-H chalcogenation of azoles at room temperature. <b>2017</b> , 53, 5906-5909	63

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7 <sup>13</sup>	Copper-Mediated Thiolation of Unactivated Heteroaryl C-H Bonds with Disulfides under Ligand- and Metal-Oxidant-Free Conditions. <b>2017</b> , 359, 4117-4121	25
7 <sup>12</sup>	Synthesis and Antitumoral Lung Carcinoma A549 and Antioxidant Activity Assays Of New Chiral $\alpha$ -Aryl-Chalcogenium Azide Compounds. <b>2017</b> , 2, 8423-8430	5
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7 <sup>08</sup>	Copper(I)-Catalyzed Alkyl- and Arylsulfenylation of 3,4-Dihalo-2(5H)-furanones (X=Br, Cl) with Sulfoxides under Mild Conditions. <b>2017</b> , 359, 2961-2971	27
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7 <sup>06</sup>	Nickel-Catalyzed Intermolecular Carbosulfonylation of Alkynes via Sulfonyl Radicals. <b>2017</b> , 129, 10081-10084	11
7 <sup>05</sup>	Nickel-Catalyzed Intermolecular Carbosulfonylation of Alkynes via Sulfonyl Radicals. <b>2017</b> , 56, 9949-9952	65

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310	CuI-catalyzed tandem synthesis of thioethers using aryl halides, electron-deficient alkenes, and sodium iso-propyl xanthogenate. <b>2020</b> , 34, e5553	1
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304	Synthesis of 3-selenylbenzo[f]furans promoted by SelectFluor <sup>®</sup> .. <b>2020</b> , 10, 13975-13983	16
303	Brønsted Acid-Assisted Zinc-Catalyzed Markovnikov-Type Hydrothiolation of Alkenes Using Thiols. <b>2020</b> , 85, 6528-6534	5
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290	Iodine/DMSO-Promoted Selective Direct Arylthiation of Anilines with Thiols under Metal-Free Conditions. <b>2021</b> , 86, 291-301	1
289	Synthesis of Sulfonylated Pyrrolines and Pyrrolinones via Ag-mediated Radical Cyclization of Olefinic Enamides with Sodium Sulfinates. <b>2021</b> , 10, 366-370	1
288	Safe, Scalable, Inexpensive, and Mild Nickel-Catalyzed Migita-Like C $\beta$ Cross-Couplings in Recyclable Water. <b>2021</b> , 133, 3752-3757	3
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217	Copper(0) nanoparticles immobilized on SBA-15: A versatile recyclable heterogeneous catalyst for solvent and ligand free C <sub>S</sub> coupling reaction from diverse substrates. <b>2021</b> , 323, 111198	1
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213	Dual Functionalization of Alkynes Utilizing the Redox Characteristics of Transition Metal Catalysts. <b>2021</b> , 13, 4262	2
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211	Photo-induced transition-metal and photosensitizer free crosscoupling of aryl halides with disulfides. <b>2021</b> , 2, 303-306	16
210	Temperature-Controlled Chemoselective Synthesis of Thiosulfonates and Thiocyanates: Novel Reactivity of KXCN (X=S, Se) towards Organosulfonyl Chlorides. <b>2021</b> , 2021, 5359	1
209	Organoboron compounds as versatile reagents in the transition metal-catalyzed C <sub>S</sub> , C <sub>Se</sub> and C <sub>Te</sub> bond formation. <b>2021</b> , 442, 214012	6
208	2,2-Bis(phenylselanyl)-1-(p-tolyl)vinyl 2-Oxo-2-(p-tolyl)acetate. <b>2021</b> , 2021, M1283	
207	Nickel-Catalyzed Deaminative Cross-Coupling of Disulfides with Katritzky Pyridium Salts to Construct Sulfides.	1
206	Gold-Catalyzed Reactions of 2-Alkynyl-1-indolyl-1,2-diols with Thiols: Stereoselective Synthesis of (Z)-Indol-3-yl (2-Thioalkenyl) Ketones.	0
205	Diethylaminosulfur Trifluoride: A Novel, Low-Cost, Stable Double Thiolation Reagent for Imidazo[1,2-b]pyridines. <b>2021</b> , 6, 26273-26281	2
204	Iodine Catalyzed C2-H Formamidation of Quinoline N-Oxides using Isocyanides: A Metal-Free Approach.	0
203	Enantio- and Diastereodivergent Synthesis of Spirocycles through Dual-Metal-Catalyzed [3+2] Annulation of 2-Vinyloxiranes with Nucleophilic Dipoles. <b>2021</b> , 60, 24941-24949	18
202	Thiofunctionalization of Electron-Rich Heteroarenes through Magnesiation and Trapping with Octasulfur. <b>2021</b> , 363, 5099	0
201	Recyclable Gold Catalyst for the Stereoselective Thioallylation of Alkynes. <b>2021</b> , 86, 13598-13609	0

200	Enantio- and Diastereodivergent Synthesis of Spirocycles through Dual-Metal-Catalyzed [3+2] Annulation of 2-Vinyloxiranes with Nucleophilic Dipoles.	4
199	Pd-Catalyzed Intermolecular Transthioation of Ar-OTf Using Methyl 3-(Methylthio) Propanoate as a Thiol Surrogate. <b>2021</b> , 2021, 4616-4619	0
198	Forging C <sub>8</sub> Bonds Through Decarbonylation: New Perspectives for the Synthesis of Privileged Aryl Sulfides.	1
197	Applications of 2-Oxoacids. <b>2022</b> , 173-267	
196	Transition-metal-free decarboxylative thiolation of stable aliphatic carboxylates.. <b>2021</b> , 11, 4593-4597	0
195	Copper-catalyzed ortho-selective direct sulfenylation of N-aryl-7-azaindoles with disulfides. <b>2021</b> , 19, 2901-2906	4
194	Redox-active benzimidazolium sulfonamides as cationic thiolating reagents for reductive cross-coupling of organic halides. <b>2020</b> , 12, 2509-2514	4
193	Iodide-promoted transformations of imidazopyridines into sulfur-bridged imidazopyridines or 1,2,4-thiadiazoles. <b>2021</b> , 57, 5338-5341	5
192	Copper-catalyzed regio- and chemoselective selenosulfonylation of 1,6-enynes from sulfur dioxide.	9
191	Diorganyl diselenides: a powerful tool for the construction of selenium containing scaffolds. <b>2021</b> , 50, 12764-12790	5
190	Highly selective radical isothiocyano-chalcogenization of alkenes with NH <sub>4</sub> SCN in water.	3
189	Metal-free efficient thiolation of C(sp <sup>2</sup> ) functionalization via in situ-generated NHTS for the synthesis of novel sulfenylated 2-aminothiazole and imidazothiazole. <b>2021</b> , 45, 4632-4637	3
188	Advances in deep eutectic solvents and water: applications in metal- and biocatalyzed processes, in the synthesis of APIs, and other biologically active compounds. <b>2021</b> , 19, 2558-2577	34
187	Iron-catalyzed cascade reaction of C(sp)-Se bond cross-coupling/C-N bond formation. <b>2021</b> , 57, 5426-5429	3
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185	Metal-Free, Acid/Phosphine-Induced Regioselective Thiolation of $\alpha$ -Quinone Methides with Sodium Aryl/Alkyl Sulfinates. <b>2021</b> , 86, 1516-1527	7
184	Visible-light-induced oxidative coupling of vinylarenes with diselenides leading to $\alpha$ -aryl and $\alpha$ -alkyl selenomethyl ketones. <b>2021</b> , 23, 1840-1846	2
183	Decarbonylative Sulfide Synthesis from Carboxylic Acids and Thioesters via Cross-Over C-S Activation and Acyl Capture. <b>2021</b> , 8, 4805-4813	2



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178	Redox Active Sodium Iodide/Recyclable Heterogeneous Solid Acid: An Efficient Dual Catalytic System for Electrochemically Oxidative C-H Thiocyanation and Sulfenylation of Ketones. <b>2018</b> , 360, 1444-1452	38
177	Facile Synthesis of S-Substituted L-Cysteines with Nano-sized Immobilized O-Acetylserine Sulfhydrylase. <b>2018</b> , 10, 3671-3674	5
176	Electrochemical Synthesis of Spiro[4.5]trienones through Radical-Initiated Dearomative Spirocyclization. <b>2020</b> , 13, 2053-2059	28
175	Calcium Carbide: Versatile Synthetic Applications, Green Methodology and Sustainability. <b>2021</b> , 2021, 43-52	13
174	Operando UV-Vis spectroscopy as potential in-line PAT system for size determination of functioning metal nanocatalysts. <b>2020</b> , 225, 115821	6
173	Catalytic synthesis of sulfur and phosphorus compounds via atom-economic reactions. <b>2020</b> , 30, 129-138	8
172	Chelation-assisted transition metal-catalysed C-H chalcogenylations. <b>2020</b> , 7, 1022-1060	33
171	Brønsted acid-promoted thiazole synthesis under metal-free conditions using sulfur powder as the sulfur source. <b>2020</b> , 10, 3931-3935	7
170	Copper-catalyzed double C-S bond formation for the synthesis of 2-acyldihydrobenzo[b]thiophenes and 2-acylbenzo[b]thiophenes. <b>2020</b> , 56, 10906-10909	3
169	Recent Advances on C-Se Bond-forming Reactions at Low and Room Temperature. <b>2020</b> , 23, 3206-3225	13
168	Recent Developments and Perspectives in the C-Se Cross Coupling Reactions. <b>2020</b> , 24, 1230-1262	7
167	Cu(OAc) <sub>2</sub> -Promoted Thiolation and Selenylation of C(sp <sup>2</sup> )-H Bonds Using a 2-Amino Oxazole Directing Group. <b>2019</b> , 16, 110-116	2
166	Recent Progress on Carbon-chalcogen Bond Formation Reaction Under Microwave Irradiation. <b>2020</b> , 7, 40-49	5
165	Ascorbic Acid-mediated Reactions in Organic Synthesis. <b>2020</b> , 7, 212-241	3

164	Synthesis of Heteroaromatic Compounds by Newly Extended Pummerer Reactions. <b>2013</b> , 71, 341-354	21
163	Direct Thiolation and Selenation of Aryl C-H Bonds Catalyzed by Palladium or Nickel. <b>2018</b> , 76, 11-20	1
162	Ultrasound-promoted synthesis of 2-organoselanyl-naphthalenes using Oxone in aqueous medium as an oxidizing agent. <b>2018</b> , 6, e4706	16
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160	The organocatalytic synthesis of perfluorophenylsulfides the thiolation of trimethyl(perfluorophenyl)silanes and thiosulfonates. <b>2021</b> , 19, 9237-9241	1
159	Visible-light photocatalytic preparation of alkenyl thioethers from 1,2,3-thiadiazoles and Hantzsch esters: synthetic and mechanistic investigations.	1
158	Coupling of thiols and aromatic halides promoted by diboron derived super electron donors. <b>2021</b> , 57, 11653-11656	1
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156	Sulfonylation of Indoles Mediated by Iodine and Its Compounds. <b>2021</b> , 6, 10369-10378	0
155	Production of Alkyl Aryl Sulfides from Aromatic Disulfides and Alkyl Carboxylates via a Disilathiane-Disulfide Interchange Reaction. <b>2021</b> ,	0
154	Dimethyl Anion Enables Visible-Light-Promoted Charge Transfer in Cross-Coupling Reactions of Aryl Halides.	2
153	Synthesis of Polysubstituted Furans through Electrochemical Selenocyclization of Homopropargylic Alcohols. <b>2021</b> , 86, 16084-16094	4
152	Pd-Catalyzed Double-Decarbonylative Aryl Sulfide Synthesis through Aryl Exchange between Amides and Thioesters. <b>2021</b> , 23, 8098-8103	2
151	High-Throughput Nano-Electrostatic-Spray Ionization/Photoreaction Mass Spectrometric Platform for the Discovery of Visible-Light-Activated Photocatalytic Reactions in the Picomole Scale. <b>2021</b> , 93, 14560-14567	3
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149	Clarification on the Reactivity of Diaryl Diselenides toward Hexacyclohexyldilead under Light. <b>2021</b> , 26,	1
148	Highly Diastereoselective Synthesis of Dihydro-benzoimidazo-[1,3]-thiazines via Electro-oxidative Selenocyclization of Thioallyl Benzoimidazoles. <b>2021</b> , 16, 3895-3899	1
147	Synthesis, Characterization, Crystal and Molecular Structure Analysis of 1-(2-Chlorophenyl)-3-methyl-4-(p-tolylthio)-1H-pyrazol-5-ol. <b>2019</b> , 4, 267-272	

146	Synthesis of Symmetrical Thiosulfonates via Cu(OTf) <sub>2</sub> -Catalyzed Reductive Homocoupling of Arenesulfonyl Chlorides. <b>2021</b> , 2021, 5880	2
145	Radical functionalization of thioglycosides in aqueous medium. <b>2021</b> , 86, 153499	
144	Copper pyridone (CuPT)-catalyzed/mediated amination and thioarylation of (hetero)aryl halides: A competition. <b>2021</b> , 516, 111981	0
143	Sodium iodide-mediated synthesis of vinyl sulfides and vinyl sulfones with solvent-controlled chemical selectivity.. <b>2021</b> , 11, 35156-35160	0
142	Visible-light-induced intermolecular aminoselenation of alkenes.	2
141	Copper acetate - Iodine co-mediated thiolation of 2-arylpyridines with thiophenol. <b>2022</b> , 103, 132552	
140	Cross-coupling reaction of organoalane reagents with 2-mercaptobenzo-5-membered heterocycles for efficient synthesis of benzo-5-membered heterocycle sulfides. <b>2022</b> , 103, 132564	
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138	Sustainable synthesis of potential antitumor new derivatives of Abemaciclib and Fedratinib via C-N cross coupling reactions using Pd/Cu-free Co-catalyst. <b>2021</b> , 517, 112011	1
137	Base-promoted thioannulation of -alkynyl oxime ethers with sodium sulfide for the general synthesis of isothiocoumarins. <b>2021</b> , 19, 10174-10180	1
136	Selective 1,4-arylsulfonation of 1,3-enynes via photoredox/nickel dual catalysis.	2
135	Benzyl thioether formation merging copper catalysis.. <b>2021</b> , 12, 692-697	0
134	COS-triggered oxygen/sulfur exchange of isatins: chemoselective synthesis of functionalized isoindigos and spirothiopyrans self-condensation and the thio-Diels-Alder reaction.. <b>2021</b> ,	0
133	Palladium-catalysed thioetherification of aryl and alkenyl iodides using 1,3,5-trithiane as sulfur source. <b>2022</b> , 104, 132602	0
132	Iodine-catalyzed, highly atom-economic synthesis of 9-sulfonylphenanthrenes and polycyclic heteroaromatics in water. <b>2021</b> , 23, 10006-10013	3
131	Opportunities and challenges of visible-light-driven triple-synergistic catalysis. <b>2022</b> ,	0
130	Electrochemical regioselective C-H selenylation of 2-indazole derivatives. <b>2021</b> ,	1
129	Construction of diverse C <sub>3</sub> /C <sub>3</sub> e bonds via nickel catalyzed reductive coupling employing thiosulfonates and a selenosulfonate under mild conditions.	3

128	Transition-Metal-Free Synthesis of Unsymmetrical Diaryl Tellurides via S <sub>2</sub> Reaction of Aryl Radicals on Tellurium.. <b>2022</b> , 27,	1
127	Nickel-Catalyzed Thioesterification Enabled by a Visible-Light Organophotoredox Catalyst under Mild Conditions.	0
126	The journey of C-S bond formation from metal catalysis to electrocatalysis. <b>2021</b> , 46, 15-38	4
125	A Ni(II)-catalyzed reductive cross-coupling reaction of oxalates and thiosulfonates/selenosulfonates. <b>2022</b> , 9, 731-736	1
124	Gold-catalyzed thioetherification of allyl, benzyl, and propargyl phosphates.	
123	Evidence for the cocktail nature of platinum-catalyzed alkyne and alkene hydrosilylation reactions.	0
122	Synthesis of Aryl Sulfides by Metal-Free Arylation of Thiols with Diaryliodonium Salts under Basic Conditions**. <b>2022</b> , 2022,	2
121	Electrochemistry Enabled Nickel-Catalyzed Selective C-S Bond Coupling Reaction. <b>2022</b> , 2022,	0
120	Diethyl phosphite-mediated switchable synthesis of bis(imidazoheterocycles) derived disulfanes and sulfanes using imidazoheterocycles and octasulfur.	0
119	Visible-light photocatalysis promoted by solid- and liquid-phase immobilized transition metal complexes in organic synthesis. <b>2022</b> , 458, 214331	3
118	Magnetic mesocellular foams with nickel complex: As efficient and reusable nanocatalyst for the synthesis of symmetrical and unsymmetrical diaryl chalcogenide.	
117	Thiolate-assisted copper(I) catalyzed C-S cross coupling of thiols with aryl iodides: scope, kinetics and mechanism. <b>2022</b> , 46, 6283-6295	1
116	Visible-light-promoted denitrogenative ortho-selenylation reaction of benzotriazinones: synthesis of ortho-selenylated benzamides and ebselen analogs.	2
115	Highly stereoselective synthesis of spirocyclopropylthiooxindoles and biological evaluation.	1
114	Deoxygenative C-S Bond Coupling with Sulfinates via Nickel/Photoredox Dual Catalysis.. <b>2022</b> ,	3
113	Cu-catalyzed vinylamination of S-alkylisothiuronium salts with maleimide and alkylamines.	
112	Photoinduced Bisphosphination of Alkynes with Phosphorus Interelement Compounds and Its Application to Double-Bond Isomerization.. <b>2022</b> , 27,	1
111	Recent advances in direct C(sp <sup>3</sup> )-H bond functionalization of thioethers. <b>2022</b> ,	2

110	1,n-Thiosulfonylation using thiosulfonates as dual functional reagents. <b>2022,</b>	2
109	Recent trends in Nickel-Catalyzed C-S Bond Formation.	1
108	Solvent-Driven Mono- and Bis-sulfonylation of ( $\beta$ )-Hodovinyl Sulfones with Thiols for Flexible Synthesis of 1,2-Thiosulfonylalkenes and 1,2-Dithioalkenes.. <b>2022,</b>	1
107	Modern Development in Copper- and Nickel-Catalyzed Cross-Coupling Reactions: Formation of Carbon-Carbon and Carbon-Heteroatom bonds under Microwave Irradiation Conditions.	0
106	Recent advances on copper-catalyzed carbon chalcogenides cross-coupling reactions.. <b>2022,</b>	
105	Tf 2 O-mediated Regioselective C(sp <sup>2</sup> )H Sulfonylation of Enaminones Using Methyl Sulfoxides as Sulfur Sources.	1
104	Aerobic Copper(II)-catalyzed synthesis of $\beta$ hydroxysulfides and selenides from alkenes with disulfides and diselenides. <b>2022,</b> 110, 132689	
103	Iron-catalyzed intermolecular cross-dehydrogenative C(sp)-H/C(sp)-H coupling of pyrimidine bearing 4-thiazolidinones with terminal alkynes.. <b>2022,</b> 1	0
102	Sulfonyl Chlorides as Thiol Surrogates for Carbon-Sulfur Bond Formation: One-Pot Synthesis of Thioethers and Thioesters.. <b>2022,</b>	4
101	Metal Catalyzed-Introduction of Sulfur-Substituents to Unsaturated Carbon-Carbon Bonds. <b>2022,</b> 80, 322-330	
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99	Transition Metal Catalyst, Solvent, Base Free Synthesis of Diaryl Diselenides under Mechanical Ball Milling.. <b>2021,</b>	
98	Transition Metal-Free Sulfonylation of C-H Bonds for C-S Bond Formation in Recent Years: Mechanistic Approach and Promising Future. <b>2021,</b> 6, 13077-13208	1
97	Synergistic Effect of Squaric Acid in Bromine-Catalyzed Deoxygenation of Sulfonyl Derivatives: Mechanistic Investigations and Synthetic Applications in Electrophilic (Fluoroalkyl)sulfonylation. <b>2021,</b>	3
96	Synthesis and characterization of highly efficient and recoverable Cu@MCM-41-(2-hydroxy-3-propoxypropyl) metformin mesoporous catalyst and its uses in Ullmann type reactions.. <b>2022,</b> 12, 4949	0
95	Electrophilic Sulfur Reagent Design Enables Directed $\alpha$ -Carbosulfonylation of Unactivated Alkenes.. <b>2022,</b>	4
94	Coupling of Thiols and Aryl Halides Mediated by Dicyclohexano-18-Crown-6 and Potassium Carbonate.. <b>2022,</b>	
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- 90 Transition-metals-catalyzed one-pot selenylation of electrophilic arylating agents using triphenyltin chloride/Se as a phenylselenating agent. 1
- 89 Directed, Nickel-Catalyzed 1,2-Alkylsulfenylation of Alkenyl Carbonyl Compounds. 1
- 88 Palladium/Bronsted Acid Catalysis for Hydrofunctionalizations of Alkynes: from Tsuji-Trost Allylations to Stereoselective Methodologies.
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- 76 Rhodium-Catalyzed Ring Expansion Reactions for the Concise Construction of Densely Functionalized Oxathionines and Oxathiocines. 7524-7530 2
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73	Ligand-Enabled Gold-Catalyzed C(sp <sup>2</sup> )–C Cross-Coupling Reactions. <b>2022</b> , 24, 4459-4463	4
72	Catalytic and pseudocapacitive energy storage performance of metal (Co, Ni, Cu and Mn) ferrite nanostructures and nanocomposites. <b>2022</b> , 130, 100995	1
71	Recent Progress in Benzylic C(sp <sup>3</sup> )–C Functionalization of Toluene and Its Derivatives. <b>2022</b> , 42, 1586	0
70	Regioselective synthesis of (Z)-alkenyl thioethers via Rh(III)-catalyzed thiolation of N-2,6-difluoroaryl acrylamides. <b>2022</b> , 153981	1
69	Direct One-Pot Construction of Diaryl Thioethers and 1,3-Diynes through a Copper(I)-Catalyzed Reaction of $\beta$ -Iodanes with Thiophenols.	1
68	Nickel-Catalyzed C–S Reductive Cross-Coupling of Alkyl Halides with Arylthiosilanes toward Alkyl Aryl Thioethers.	4
67	C4-Sulfonylation of 4-iodine-1H-pyrazole-5-amine with arylsulfonyl hydrazide in water. <b>2022</b> , 528, 112485	
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65	1,2-Disubstituted ferrocenylated hybrid water-soluble selenoether and telluroether ligands and their palladium complexes: CV and variable temperature NMR studies. <b>2022</b> , 116081	0
64	Base-Promoted Reactions of Organostibines with Alkynes and Organic Halides to Give Chalcogenated (Z)-Olefins and Ethers. <b>2022</b> , 24, 6159-6164	0
63	Selenium-Electrocatalytic Cyclization of 2-Vinylanilides towards Indoles of Peptide Labeling.	0
62	Copper-catalyzed reactions of $\beta$ -unsaturated N-tosylhydrazones with diaryliodonium salts to construct N-arylpyrazoles and diaryl sulfones. <b>2022</b> , 20, 7011-7016	0
61	Recent Advances in C–C Bond Metathesis Reactions. <b>2022</b> , 42, 2376	0
60	Recent developments in the synthesis of the isoquinoline-1,3(2H,4H)-dione by radical cascade reaction.	0
59	Electrochemical $\beta$ -chlorosulfoxidation of alkenes.	0
58	Asymmetric organocatalytic sulfonylation for the construction of a diheteroatom-bearing tetrasubstituted carbon centre. <b>2022</b> , 58, 9686-9689	2
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- 55 A green methodology for C<sub>6</sub>S cross-coupling reaction over CuI attached to magnetic natural talc (γ-Fe<sub>2</sub>O<sub>3</sub>/talc/CuI NPs) as a heterogeneous and ligand-free catalyst. 1-13 0
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- 53 Palladium-Catalyzed Remote C<sub>6</sub>H Selenylation of Arylethylamide and Alkenylethylamide Derivatives. 0
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- 51 Homocouplings of Sodium Arenesulfonates: Selective Access to Symmetric Diaryl Sulfides and Diaryl Disulfides. **2022**, 27, 6232 0
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- 49 Aryl sulfide synthesis via aryl exchange reaction. **2022**, 0
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- 47 C<sub>6</sub>S Bonds via C<sub>6</sub>H Functionalization. 1-34 0
- 46 Ag-Catalyzed/Mediated C<sub>6</sub>X Bond Formation (X = P, S, Se) Through C<sub>6</sub>H Bond Functionalization. 1-22 0
- 45 Electro-oxidation induced O<sub>6</sub>S cross-coupling of quinoxalinones with sodium sulfonates for synthesizing 2-sulfonyloxyated quinoxalines. 1
- 44 Silver-catalyzed synthesis of symmetrical diaryl tellurides from arylboronic acids and tellurium. 0
- 43 Magnetically recyclable CoFe<sub>2</sub>O<sub>4</sub> nanoparticles as stable and efficient catalysts for the synthesis of aryl thioethers via C<sub>6</sub>S coupling reactions. 0
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- 39 Base-Promoted Synthesis of Vinyl Sulfides from Sulfonium Triflates. **2022**, 24, 7769-7773 0



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- 36 The Perfluoroalkylthiolation Reaction of Indoles and Activated Arenes with Perfluoroalkanesulfenic Acids. **2022**, 2022, ○
- 35 Theoretical Investigations on the Reactivity Influence Factors of  $[Mn(CO)_5]$  Catalyzed Alkynes Hydrosilylation and Hydrogermylation. ○
- 34 Synthesis of dithioacetals via gold-catalysed hydrothiolation of vinyl sulfides. ○
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