

Sulfoximines: A Neglected Opportunity in Medicinal Chemistry

Angewandte Chemie - International Edition

52, 9399-9408

DOI: [10.1002/anie.201302209](https://doi.org/10.1002/anie.201302209)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Exploring the Reactivity of <i>N</i> -Alkynylated Sulfoximines: [2 + 2]-Cycloadditions. <i>Organic Letters</i> , 2013, 15, 5397-5399.	2.4	38
2	Sulfoxide to Sulfoximine Conversions: Use of Modified Burgess-Type Reagents. <i>Advanced Synthesis and Catalysis</i> , 2013, 355, 3363-3368.	2.1	51
3	Synthesis and Structural Characterization of Molybdenum(VI) and Iron(II) Coordination Compounds with <i>S</i> -Alkyl- <i>N</i> -methyl-(2-pyridyl)sulfoximines and Catalytic Epoxidation Activity of the Molybdenum Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 13160-13166.	1.9	8
5	Silver(I)-mediated coupling reaction of heterocyclic ketene amins (HKAs) with bis(phenylsulfonyl)sulfides to synthesis of benzenesulfonyl-HKAs. <i>Tetrahedron</i> , 2014, 70, 8858-8862.	1.0	6
6	Fluorinated Sulfoximines: Preparation, Reactions and Applications. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 4437-4451.	1.2	125
7	Fluorinated sulfoximines: syntheses, properties and applications. <i>Chemical Society Reviews</i> , 2014, 43, 2426.	18.7	204
8	Rhodium(III)-Catalyzed Selective <i>ortho</i> -Olefinations of <i>N</i> -Acyl and <i>N</i> -Aroyl Sulfoximines by C-H Bond Activation. <i>Chemistry - A European Journal</i> , 2014, 20, 4896-4900.	1.7	100
9	Light-Induced Ruthenium-Catalyzed Nitrene Transfer Reactions: A Photochemical Approach towards <i>N</i> -Acyl Sulfoximines and Sulfoximines. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5639-5642.	7.2	200
10	Light-Induced Ruthenium-Catalyzed Nitrene Transfer Reactions: A Photochemical Approach towards <i>N</i> -Acyl Sulfoximines and Sulfoximines. <i>Angewandte Chemie</i> , 2014, 126, 5745-5748.	1.6	48
11	<i>N</i> -Alkylations of <i>N</i> -H-Sulfoximines and <i>N</i> -H-Sulfoxidines with Alkyl Halides Mediated by Potassium Hydroxide in Dimethyl Sulfoxide. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 1847-1852.	2.1	63
12	Iron-Catalyzed Imidative Kinetic Resolution of Racemic Sulfoxides. <i>Chemistry - A European Journal</i> , 2014, 20, 966-969.	1.7	77
13	<i>N</i> -Arylations of Sulfoximines with 2-Arylpyridines by Copper-Mediated Dual N-H/C-H Activation. <i>Organic Letters</i> , 2014, 16, 2661-2663.	2.4	90
14	Data-Mining for Sulfur and Fluorine: An Evaluation of Pharmaceuticals To Reveal Opportunities for Drug Design and Discovery. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 2832-2842.	2.9	1,080
15	1-Oxo-1-fluoro-1,2,4-benzothiadiazines: A new type of cyclic sulfonimidoyl fluorides. <i>Journal of Fluorine Chemistry</i> , 2014, 160, 16-19.	0.9	7
16	Six-Membered Ring Systems. <i>Progress in Heterocyclic Chemistry</i> , 2014, , 395-447.	0.5	3
17	Rhodium-catalyzed direct synthesis of unprotected NH-sulfoximines from sulfoxides. <i>Chemical Communications</i> , 2014, 50, 9687-9689.	2.2	57
18	Recent advances in the trifluoromethylation methodology and new CF ₃ -containing drugs. <i>Journal of Fluorine Chemistry</i> , 2014, 167, 37-54.	0.9	383
19	General synthetic strategies towards <i>N</i> -alkyl sulfoximine building blocks for medicinal chemistry and the use of dimethylsulfoximine as a versatile precursor. <i>Tetrahedron</i> , 2014, 70, 6613-6622.	1.0	59

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21	Copper-Catalyzed N-Alkynylations of Sulfoximines with Bromoacetylenes. <i>Organic Letters</i> , 2014, 16, 3796-3799.	2.4	76
22	C-H Activation of Methyl Arenes in the MnO ₂ -Mediated Aroylation of N-Chlorosulfoximines. <i>Organic Letters</i> , 2014, 16, 1650-1652.	2.4	60
23	Iron-Catalyzed Hetero-Cross-Dehydrogenative Coupling Reactions of Sulfoximines with Diarylmethanes: A New Route to N-Alkylated Sulfoximines. <i>Organic Letters</i> , 2014, 16, 2000-2002.	2.4	102
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25	Methionine and Buthionine Sulfoximines: Syntheses under Mild and Safe Imidation/Oxidation Conditions. <i>Advanced Synthesis and Catalysis</i> , 2014, 356, 2209-2213.	2.1	36
26	Iron-Catalyzed Acylative Dealkylation of N-Alkylsulfoximines. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 5594-5602.	1.2	19
27	Palladium/Copper-Cocatalyzed Oxidative Amidobrominations of Alkenes. <i>Chemistry - A European Journal</i> , 2015, 21, 10330-10333.	1.7	25
28	Cu-Mediated α -Ketoacylation of Sulfoximines under Solvent-Free Conditions. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 4913-4921.	1.2	13
29	Stereoselective Synthesis of Chiral Sulfilimines from N-Mesyloxycarbamates: Metal-Nitrenes versus Metal-Nitrenoids Species. <i>Journal of Organic Chemistry</i> , 2015, 80, 3572-3585.	1.7	30
30	N-Trifluoromethylthiolated Sulfoximines. <i>Organic Letters</i> , 2015, 17, 3011-3013.	2.4	77
31	Silver-Mediated N-Trifluoromethylation of Sulfoximines. <i>Organic Letters</i> , 2015, 17, 3166-3169.	2.4	90
32	Synthesis of Sulfoximine Carbamates by Rhodium-Catalyzed Nitrene Transfer of Carbamates to Sulfoxides. <i>Journal of Organic Chemistry</i> , 2015, 80, 6391-6399.	1.7	74
33	Freezing the Bioactive Conformation to Boost Potency: The Identification of BAY8501, a Selective and Potent Inhibitor of Human Neutrophil Elastase for Pulmonary Diseases. <i>ChemMedChem</i> , 2015, 10, 1163-1173.	1.6	56
34	Metal-Free Approach for the Synthesis of N-Aryl Sulfoximines via Aryne Intermediate. <i>Organic Letters</i> , 2015, 17, 5547-5549.	2.4	59
35	TBAI/TBHP catalyzed direct N-acylation of sulfoximines with aldehydes. <i>Tetrahedron</i> , 2015, 71, 1182-1186.	1.0	27
36	Development of a Continuous Flow Sulfoxide Imidation Protocol Using Azide Sources under Supercritical Conditions. <i>Organic Process Research and Development</i> , 2015, 19, 1062-1067.	1.3	45
37	Ruthenium- and palladium-catalyzed consecutive coupling and cyclization of aromatic sulfoximines with phenylboronic acids: an efficient route to dibenzothiazines. <i>Chemical Communications</i> , 2015, 51, 12992-12995.	2.2	68

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39	Sulfur Imidations by Light-Induced Ruthenium-Catalyzed Nitrene Transfer Reactions. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 2854-2860.	1.2	60
40	Regioselective Syntheses of 1,2-Benzothiazines by Rhodium-Catalyzed Annulation Reactions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12349-12352.	7.2	184
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42	Sulfur imidations: access to sulfimides and sulfoximines. <i>Chemical Society Reviews</i> , 2015, 44, 3378-3390.	18.7	257
43	The Synthesis of Chiral Benzothiazine and Thiazinoquinoline Derivatives. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 3338-3343.	1.2	12
44	The N-silylation of sulfoximines. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 10600-10603.	1.5	13
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53	Designing novel building blocks is an overlooked strategy to improve compound quality. <i>Drug Discovery Today</i> , 2015, 20, 11-17.	3.2	161
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55	Stereoselective Synthesis of (Sulfonimidoyl)cyclopropanes with (<i>R</i>)- α -PhSO(NTs)CH ₂ Cl and β -Unsaturated Weinreb Amides: Tuning the of Selectivity between C–Cl and C–S Bond Cleavage. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 906-909.	1.2	19

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56	Rhodium-Catalyzed <i>ortho</i> -Aamidations in the Preparation of Thiadiazine 1-Oxides. Chemistry - A European Journal, 2016, 22, 10821-10824.	1.7	47
57	Copper-Catalyzed S ² C/S ² N Bond Interconversions. Chemistry - A European Journal, 2016, 22, 5547-5550.	1.7	40
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74	Synthesis of Sulfoximidoyl-Containing Hypervalent Iodine(III) Reagents and Their Use in Transition-Metal-Free Sulfoximinations of Alkynes. <i>Angewandte Chemie</i> , 2016, 128, 12845-12848.	1.6	16
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84	Rhodium(III)-Catalyzed <i>Ortho</i> Halogenations of <i>N</i> -Acylsulfoximines and Synthetic Applications toward Functionalized Sulfoximine Derivatives. <i>Organic Letters</i> , 2017, 19, 726-729.	2.4	47
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111	Rhodium-Catalyzed [4 + 3] Annulations of Sulfoximines with α,β -Unsaturated Ketones Leading to 1,2-Benzothiazepine 1-Oxides. Organic Letters, 2017, 19, 6020-6023.	2.4	56
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129	Sulfoximidations of Benzylic C-H bonds by Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5863-5866.	7.2	66
130	Highly Chemoselective NH- and O-Transfer to Thiols Using Hypervalent Iodine Reagents: Synthesis of Sulfonimidates and Sulfonamides. <i>Organic Letters</i> , 2018, 20, 2599-2602.	2.4	50
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397	Rh(III)-Catalyzed [4 + 1] Annulation of Sulfoximines with Maleimides: Access to Benzoisothiazole Spiropyrrrolidinediones. <i>Journal of Organic Chemistry</i> , 2023, 88, 3626-3635.	1.7	2
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400	Synthesis of Sulfilimines via Selective S-C Bond Formation in Water. <i>Organic Letters</i> , 2023, 25, 2134-2138.	2.4	17
401	Applications of Bioisosteres in the Design of Biologically Active Compounds. <i>Journal of Agricultural and Food Chemistry</i> , 2023, 71, 18087-18122.	2.4	16
402	Sulfur-Arylation of Sulfenamides via Chan-Lam Coupling with Boronic Acids: Access to High Oxidation State Sulfur Pharmacophores. <i>Organic Letters</i> , 2023, 25, 2830-2834.	2.4	18

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403	Gold-Catalyzed <i>Anti</i> -Markovnikov Oxidation of Au-Allenylidene to Generate Alkylidene Ketene. <i>Organic Letters</i> , 2023, 25, 2798-2805.	2.4	1
404	Rhodium-Catalyzed Enantioselective N-Allylation of Sulfoximines. <i>Organic Letters</i> , 2023, 25, 2756-2760.	2.4	5
405	Redox-Neutral Synthesis of Sulfilimines through the S-Alkylation of Sulfenamides. <i>Organic Letters</i> , 2023, 25, 3173-3178.	2.4	14
407	Novel Medicinal Chemistry Strategies Targeting CDK5 for Drug Discovery. <i>Journal of Medicinal Chemistry</i> , 2023, 66, 7140-7161.	2.9	6
410	Alkylation of <i>N</i> -H-sulfoximines under Mitsunobu-type conditions. <i>Organic and Biomolecular Chemistry</i> , 2023, 21, 5181-5184.	1.5	2
412	Sulfur-Arylation of Sulfenamides via Ullmann-Type Coupling with (Hetero)aryl Iodides. <i>Organic Letters</i> , 2023, 25, 4759-4764.	2.4	7
419	Synthesis of Sulfilimines via Aryne and Cyclohexyne Intermediates. <i>Organic Letters</i> , 2023, 25, 5157-5161.	2.4	9
427	Visible-light-induced iron-catalyzed SN cross-coupling of thiols with dioxazolones. <i>Green Chemistry</i> , 2023, 25, 7529-7533.	4.6	3
433	Synthesis of functionalized sulfilimines <i>via</i> iron-catalyzed sulfur alkylation of sulfenamides with diazo compounds. <i>Green Chemistry</i> , 2023, 25, 9092-9096.	4.6	3
434	Organoboron/iodide-catalyzed photoredox <i>N</i> -functionalization of NH-sulfoximines/sulfonimidamides. <i>Chemical Communications</i> , 2023, 59, 13643-13646.	2.2	1
447	Facile synthesis of <i>N</i> -(\pm -furanyl) alkyl sulfoximine via gold catalyzed Michael addition/cyclization of enone and sulfoximine. <i>Organic and Biomolecular Chemistry</i> , 0, , .	1.5	0