

Jin-Shuai Song

List of Publications by Year in descending order

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76
papers

3,955
citations

94433

37
h-index

123424

61
g-index

83
all docs

83
docs citations

83
times ranked

2888
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical C ^α H/N ^α H Functionalization for the Synthesis of Highly Functionalized (Aza)indoles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9168-9172.	13.8	215
2	Electrochemical Difluoromethylation of Alkynes. <i>Journal of the American Chemical Society</i> , 2018, 140, 2460-2464.	13.7	215
3	Amidinyl Radical Formation through Anodic N ^α H Bond Cleavage and Its Application in Aromatic C ^α H Bond Functionalization. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 587-590.	13.8	179
4	TEMPO-Catalyzed Electrochemical C ^α H Thiolation: Synthesis of Benzothiazoles and Thiazolopyridines from Thioamides. <i>ACS Catalysis</i> , 2017, 7, 2730-2734.	11.2	178
5	Electrophotocatalytic Decarboxylative C ^α H Functionalization of Heteroarenes. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10626-10632.	13.8	161
6	The Mechanism of Homogeneous CO ₂ Reduction by Ni(cyclam): Product Selectivity, Concerted Proton ⁺ Electron Transfer and C ^α –O Bond Cleavage. <i>Inorganic Chemistry</i> , 2014, 53, 7500-7507.	4.0	145
7	Reagent ⁺ Free C ^α H/N ^α H Cross ⁺ Coupling: Regioselective Synthesis of N ^α -Heteroaromatics from Biaryl Aldehydes and NH ₃ . <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12732-12735.	13.8	132
8	Electrochemically Enabled Carbohydroxylation of Alkenes with H ₂ O and Organotrifluoroborates. <i>Journal of the American Chemical Society</i> , 2018, 140, 16387-16391.	13.7	127
9	Electrochemical Synthesis of Polycyclic N-Heteroaromatics through Cascade Radical Cyclization of Dienes. <i>ACS Catalysis</i> , 2017, 7, 5810-5813.	11.2	124
10	Site ⁺ Selective Electrochemical Benzylic C ^α H Amination. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2943-2947.	13.8	123
11	The Inverted Bond in [1.1.1]Propellane is a Charge ⁺ Shift Bond. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1407-1410.	13.8	120
12	Cathode Material Determines Product Selectivity for Electrochemical C ^α H Functionalization of Biaryl Ketoximes. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 15153-15156.	13.8	112
13	Scalable Rhodium(III) ⁺ Catalyzed Aryl C ^α H Phosphorylation Enabled by Anodic Oxidation Induced Reductive Elimination. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16770-16774.	13.8	111
14	Bio-inspired mechanistic insights into CO ₂ reduction. <i>Current Opinion in Chemical Biology</i> , 2015, 25, 103-109.	6.1	88
15	Electronic Structure of a Formal Iron(0) Porphyrin Complex Relevant to CO ₂ Reduction. <i>Inorganic Chemistry</i> , 2017, 56, 4745-4750.	4.0	85
16	Site ⁺ Selective Electrochemical Benzylic C ^α H Amination. <i>Angewandte Chemie</i> , 2021, 133, 2979-2983.	2.0	81
17	Metal-free atom transfer radical polymerization with ppm catalyst loading under sunlight. <i>Nature Communications</i> , 2021, 12, 429.	12.8	72
18	Multiple Low-Lying States for Compound I of P450 _{cam} and Chloroperoxidase Revealed from Multireference Ab Initio QM/MM Calculations. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 940-953.	5.3	66

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19	Radical Fluorosulfonylation: Accessing Alkenyl Sulfonyl Fluorides from Alkenes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3956-3960.	13.8	66
20	XMVB 2.0: A new version of Xiamen valence bond program. <i>International Journal of Quantum Chemistry</i> , 2015, 115, 731-737.	2.0	65
21	De Novo Synthesis of Highly Functionalized Benzimidazolones and Benzoxazolones through an Electrochemical Dehydrogenative Cyclization Cascade. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9017-9021.	13.8	65
22	Electrochemical Synthesis of (Aza)indolines via Dehydrogenative [3+2] Annulation: Application to Total Synthesis of (±)-Hinckentine A. <i>Chinese Journal of Chemistry</i> , 2018, 36, 909-915.	4.9	63
23	Electrochemical C ^α H/N ^α H Functionalization for the Synthesis of Highly Functionalized (Aza)indoles. <i>Angewandte Chemie</i> , 2016, 128, 9314-9318.	2.0	56
24	Easy access to medium-sized lactones through metal carbene migratory insertion enabled 1,4-palladium shift. <i>Nature Communications</i> , 2020, 11, 461.	12.8	55
25	Aminofluorination: transition-metal-free N=C-F bond insertion into diazocarbonyl compounds. <i>Chemical Science</i> , 2016, 7, 1786-1790.	7.4	53
26	Copper-Catalyzed Intramolecular Oxidative Amination of Unactivated Internal Alkenes. <i>Chemistry - A European Journal</i> , 2016, 22, 4379-4383.	3.3	52
27	An efficient algorithm for energy gradients and orbital optimization in valence bond theory. <i>Journal of Computational Chemistry</i> , 2009, 30, 399-406.	3.3	50
28	Optical Resolution of the Water-Soluble Ti ₄ (embonate) ₆ Cages for Enantioselective Recognition of Chiral Drugs. <i>Chemistry of Materials</i> , 2018, 30, 7769-7775.	6.7	49
29	Electrochemical Difluoromethylation of Electron-Deficient Alkenes. <i>ChemSusChem</i> , 2019, 12, 3060-3063.	6.8	48
30	Catalyst- and Reagent-Free Formal Aza-Wacker Cyclizations Enabled by Continuous-Flow Electrochemistry. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11237-11241.	13.8	47
31	Valence bond modelling and density functional theory calculations of reactivity and mechanism of cytochrome P450 enzymes: thioether sulfoxidation. <i>Faraday Discussions</i> , 0, 145, 49-70.	3.2	45
32	Tailored cobalt-salen complexes enable electrocatalytic intramolecular allylic C ^α H functionalizations. <i>Nature Communications</i> , 2021, 12, 3745.	12.8	44
33	Valence Bond Perturbation Theory. A Valence Bond Method That Incorporates Perturbation Theory. <i>Journal of Physical Chemistry A</i> , 2009, 113, 11560-11569.	2.5	43
34	Organoelectrocatalysis Enables Direct Cyclopropanation of Methylene Compounds. <i>Journal of the American Chemical Society</i> , 2022, 144, 2343-2350.	13.7	43
35	Amidinyl Radical Formation through Anodic N-H Bond Cleavage and Its Application in Aromatic C ^α H Bond Functionalization. <i>Angewandte Chemie</i> , 2017, 129, 602-605.	2.0	42
36	Computational advances aiding mechanistic understanding of silver-catalyzed carbene/nitrene/silylene transfer reactions. <i>Coordination Chemistry Reviews</i> , 2019, 382, 69-84.	18.8	42

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37	Electrochemical synthesis of 7-membered carbocycles through cascade 5-<i>exo-trig</i>/7-<i>endo-trig</i> radical cyclization. <i>Organic Chemistry Frontiers</i> , 2018, 5, 3129-3132.	4.5	40
38	Electrocatalytic Allylic C-H Alkylation Enabled by a Dual-Function Cobalt Catalyst**. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	40
39	Electrochemical C-H phosphorylation of arenes in continuous flow suitable for late-stage functionalization. <i>Nature Communications</i> , 2021, 12, 6629.	12.8	38
40	Synthesis of Acridinium Photocatalysts via Site-Selective C-H Alkylation. <i>CCS Chemistry</i> , 2021, 3, 317-325.	7.8	37
41	Theory Demonstrated a Coupled-Mechanism for O ₂ Activation and Substrate Hydroxylation by Binuclear Copper Monooxygenases. <i>Journal of the American Chemical Society</i> , 2019, 141, 19776-19789.	13.7	36
42	Scalable Rhodium(III)-Catalyzed Aryl C-H Phosphorylation Enabled by Anodic Oxidation Induced Reductive Elimination. <i>Angewandte Chemie</i> , 2019, 131, 16926-16930.	2.0	35
43	Reagent-Free C-H/N-H Cross-Coupling: Regioselective Synthesis of N-Heteroaromatics from Biaryl Aldehydes and NH ₃ . <i>Angewandte Chemie</i> , 2017, 129, 12906-12909.	2.0	34
44	Cathode Material Determines Product Selectivity for Electrochemical C-H Functionalization of Biaryl Ketoximes. <i>Angewandte Chemie</i> , 2018, 130, 15373-15376.	2.0	32
45	Fenton-Derived OH Radicals Enable the MPnS Enzyme to Convert 2-Hydroxyethylphosphonate to Methylphosphonate: Insights from Ab Initio QM/MM MD Simulations. <i>Journal of the American Chemical Society</i> , 2019, 141, 9284-9291.	13.7	32
46	Electrophotocatalytic Decarboxylative C-H Functionalization of Heteroarenes. <i>Angewandte Chemie</i> , 2020, 132, 10713-10719.	2.0	30
47	Diradical Generation via Relayed Proton-Coupled Electron Transfer. <i>Journal of the American Chemical Society</i> , 2022, 144, 3137-3145.	13.7	29
48	Insights into N-heterocyclic carbene and Lewis acid cooperatively catalyzed oxidative [3 + 3] annulation reactions of α,β -unsaturated aldehyde with 1,3-dicarbonyl compounds. <i>Organic Chemistry Frontiers</i> , 2020, 7, 1113-1121.	4.5	25
49	Electrochemical aromatic C-H hydroxylation in continuous flow. <i>Nature Communications</i> , 2022, 13, .	12.8	23
50	Electrocatalytic Dehydrogenative Cyclization of 2-Vinylnilides for the Synthesis of Indoles. <i>Journal of Organic Chemistry</i> , 2021, 86, 16001-16007.	3.2	22
51	Insights into the chiral sulfide/selenide-catalyzed electrophilic carbthiolation of alkynes: mechanism and origin of axial chirality. <i>Organic Chemistry Frontiers</i> , 2021, 8, 1983-1990.	4.5	20
52	Radical Fluorosulfonylation: Accessing Alkenyl Sulfonyl Fluorides from Alkenes. <i>Angewandte Chemie</i> , 2021, 133, 4002-4006.	2.0	18
53	Brønsted base-catalyzed annulation of allyl ketones and alkynyl 1,2-diketones. <i>Chemical Communications</i> , 2018, 54, 4266-4269.	4.1	14
54	De Novo Synthesis of Highly Functionalized Benzimidazolones and Benzoxazolones through an Electrochemical Dehydrogenative Cyclization Cascade. <i>Angewandte Chemie</i> , 2019, 131, 9115-9119.	2.0	14

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55	HOTf-Catalyzed Alkyl-Heck-type Reaction. <i>Science</i> , 2018, 3, 255-263.	4.1	13
56	An efficient algorithm for complete active space valence bond self-consistent field calculation. <i>Journal of Computational Chemistry</i> , 2013, 34, 38-48.	3.3	12
57	A diastereoselective approach to axially chiral biaryls via electrochemically enabled cyclization cascade. <i>Beilstein Journal of Organic Chemistry</i> , 2019, 15, 795-800.	2.2	12
58	Mechanistic investigation of zwitterionic MOF-catalyzed enyne annulation using UNLPF-14-MnIII as catalyst. <i>Chinese Chemical Letters</i> , 2022, 33, 4281-4286.	9.0	12
59	Mechanistic Insights into the Directing Effect of Thr303 in Ethanol Oxidation by Cytochrome P450 2E1. <i>ACS Catalysis</i> , 2019, 9, 4892-4901.	11.2	11
60	Electrocatalytic Allylic C-H Alkylation Enabled by a Dual-Function Cobalt Catalyst**. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	10
61	σ -Heterocyclic Carbene Arising from Charge Shift: A Computational Verification. <i>Chemistry - A European Journal</i> , 2018, 24, 10216-10223.	3.3	8
62	Synthesis, crystal structure and MMCT of new cyanide-bridged complexes $cis\text{-}M^{II}(dppm)_2(CN)_2(Fe^X)_2$ (M = Ru, Os). <i>RSC Advances</i> , 2015, 5, 3399-3407.	3.6	7
63	A theoretical study on the mechanism of hydrogenation of carboxylic acids catalyzed by the Saito catalyst. <i>Dalton Transactions</i> , 2018, 47, 2460-2469.	3.3	7
64	A VALENCE BOND APPROACH BASED ON LEWIS STRUCTURES. <i>Journal of Theoretical and Computational Chemistry</i> , 2008, 07, 655-668.	1.8	6
65	Bonding and Diels-Alder reactions of substituted 2-borabicyclo(1.1.0)but-1(3)-enes: a theoretical study. <i>Theoretical Chemistry Accounts</i> , 2019, 138, 1.	1.4	6
66	Mechanistic insights into the crucial roles of Glu76 residue in nickel-dependent quercetin 2,4-dioxygenase for quercetin oxidative degradation. <i>Journal of Catalysis</i> , 2020, 387, 73-83.	6.2	3
67	N-Body Reduced Density Matrix-Based Valence Bond Theory and Its Applications in Diabatic Electronic-Structure Computations. <i>Accounts of Chemical Research</i> , 2021, 54, 3895-3905.	15.6	3
68	Frontispiece: Electrochemical C-H/N-H Functionalization for the Synthesis of Highly Functionalized (Aza)indoles. <i>Angewandte Chemie - International Edition</i> , 2016, 55, .	13.8	2
69	Is the reaction sequence in phosphine-catalyzed [8+2] cycloaddition controlled by electrophilicity?. <i>Chemical Communications</i> , 2021, 57, 761-764.	4.1	2
70	Catalyst- and Reagent-Free Formal Aza-Wacker Cyclizations Enabled by Continuous-Flow Electrochemistry. <i>Angewandte Chemie</i> , 2021, 133, 11337-11341.	2.0	2
71	Solvent-dependent tautomeric equilibrium between fluorescent colorimetric probes with dual mitochondrial/liposome targetability. <i>Dyes and Pigments</i> , 2021, 191, 109377.	3.7	2
72	Side-On versus End-On Binding Modes between Metal Cations and (NHC)AlAl(NHC). <i>Organometallics</i> , 2020, 39, 3240-3249.	2.3	1

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73	Frontispiz: Electrochemical C-H/N-H Functionalization for the Synthesis of Highly Functionalized (Aza)indoles. <i>Angewandte Chemie</i> , 2016, 128, .	2.0	0
74	Beryllium and boron decoration form planar tetracoordinate carbon strips at the edge of BCN nanoribbons result in energy gap opposite variation and third-order nonlinear optical response improvement. <i>Chemical Physics Letters</i> , 2017, 685, 432-437.	2.6	0
75	Innentitelbild: De Novo Synthesis of Highly Functionalized Benzimidazolones and Benzoxazolones through an Electrochemical Dehydrogenative Cyclization Cascade (<i>Angew. Chem.</i> 27/2019). <i>Angewandte Chemie</i> , 2019, 131, 9042-9042.	2.0	0
76	Innenr¼cktitelbild: Scalable Rhodium(III)-Catalyzed Aryl C-H Phosphorylation Enabled by Anodic Oxidation Induced Reductive Elimination (<i>Angew. Chem.</i> 47/2019). <i>Angewandte Chemie</i> , 2019, 131, 17239-17239.	2.0	0