

Xiangyang Chen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5737041/publications.pdf>

Version: 2024-02-01

38
papers

962
citations

394421

19
h-index

454955

30
g-index

41
all docs

41
docs citations

41
times ranked

1022
citing authors

#	ARTICLE	IF	CITATIONS
1	Metal-free directed sp ² -C-H borylation. <i>Nature</i> , 2019, 575, 336-340.	27.8	175
2	Differentiation and functionalization of remote C-H bonds in adjacent positions. <i>Nature Chemistry</i> , 2020, 12, 399-404.	13.6	98
3	Unexpected Direct Hydride Transfer Mechanism for the Hydrogenation of Ethyl Acetate to Ethanol Catalyzed by SNS Pincer Ruthenium Complexes. <i>Chemistry - A European Journal</i> , 2016, 22, 1950-1957.	3.3	41
4	Metal-Free Directed C-H Borylation of Pyrroles. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8500-8504.	13.8	40
5	Rational Development of Remote C-H Functionalization of Biphenyl: Experimental and Computational Studies. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4770-4777.	13.8	39
6	Pd-Catalyzed Decarboxylative Olefination: Stereoselective Synthesis of Polysubstituted Butadienes and Macrocyclic P-glycoprotein Inhibitors. <i>Journal of the American Chemical Society</i> , 2020, 142, 9982-9992.	13.7	37
7	Pd(II)-Catalyzed Synthesis of Benzocyclobutenes by β^2 -Methylene-Selective C(sp ³)-H Arylation with a Transient Directing Group. <i>Journal of the American Chemical Society</i> , 2021, 143, 20035-20041.	13.7	37
8	Computational Mechanistic Study of the Hydrogenation and Dehydrogenation Reactions Catalyzed by Cobalt Pincer Complexes. <i>Organometallics</i> , 2015, 34, 5716-5722.	2.3	35
9	Phosphorus(III)-assisted regioselective C-H silylation of heteroarenes. <i>Nature Communications</i> , 2021, 12, 524.	12.8	34
10	Cooperative interplay between a flexible PNN-Ru(η^5) complex and a NaBH ₄ additive in the efficient catalytic hydrogenation of esters. <i>Catalysis Science and Technology</i> , 2017, 7, 1297-1304.	4.1	30
11	Palladium-Catalyzed Silacyclization of (Hetero)Arenes with a Tetrasilane Reagent through Twofold C-H Activation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7066-7071.	13.8	30
12	Generation of Oxyphosphonium Ions by Photoredox/Cobaloxime Catalysis for Scalable Amide and Peptide Synthesis in Batch and Continuous-Flow. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	30
13	A mechanistic study and computational prediction of iron, cobalt and manganese cyclopentadienone complexes for hydrogenation of carbon dioxide. <i>Chemical Communications</i> , 2016, 52, 12422-12425.	4.1	28
14	Hydrogenation of Carbon Dioxide to Methanol Catalyzed by Iron, Cobalt, and Manganese Cyclopentadienone Complexes: Mechanistic Insights and Computational Design. <i>Chemistry - A European Journal</i> , 2017, 23, 8850-8856.	3.3	28
15	An enantioselective ambimodal cross-Diels-Alder reaction and applications in synthesis. <i>Nature Catalysis</i> , 2021, 4, 892-900.	34.4	25
16	Bioinspired Design and Computational Prediction of Iron Complexes with Pendant Amines for the Production of Methanol from CO ₂ and H ₂ . <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1035-1041.	4.6	24
17	Mechanistic Insights and Computational Design of Transition-Metal Catalysts for Hydrogenation and Dehydrogenation Reactions. <i>Chemical Record</i> , 2016, 16, 2364-2378.	5.8	23
18	Synthesis, Reactivity, and Catalytic Transfer Hydrogenation Activity of Ruthenium Complexes Bearing NNN Tridentate Ligands: Influence of the Secondary Coordination Sphere. <i>ACS Omega</i> , 2017, 2, 3406-3416.	3.5	23

#	ARTICLE	IF	CITATIONS
19	[8+2] vs [4+2] Cycloadditions of Cyclohexadienamines to Tropone and Heptafulvenesâ€”Mechanisms and Selectivities. <i>Journal of the American Chemical Society</i> , 2021, 143, 934-944.	13.7	23
20	Newly designed manganese and cobalt complexes with pendant amines for the hydrogenation of CO ₂ to methanol: a DFT study. <i>Catalysis Science and Technology</i> , 2017, 7, 348-355.	4.1	22
21	Sterically Unprotected Nucleophilic Boron Cluster Reagents. <i>CheM</i> , 2019, 5, 2461-2469.	11.7	20
22	Chiral Phosphoric Acid Catalyzed Conversion of Epoxides into Thiiranes: Mechanism, Stereochemical Model, and New Catalyst Design. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	19
23	Ambiphilic Reactivity of Vinyl Pd-Oxyallyl for Expedient Construction of Highly Functionalized Cyclooctanoids. <i>Organic Letters</i> , 2021, 23, 7330-7335.	4.6	18
24	Computational Design of Iron Diphosphine Complexes with Pendant Amines for Hydrogenation of CO ₂ to Methanol: A Mimic of [NiFe] Hydrogenase. <i>Chemistry - A European Journal</i> , 2016, 22, 8897-8902.	3.3	14
25	Metal-Free Directed C-H Borylation of Pyrroles. <i>Angewandte Chemie</i> , 2021, 133, 8581-8585.	2.0	12
26	DFT and AIMD prediction of a SNS manganese pincer complex for hydrogenation of acetophenone. <i>Chemical Physics Letters</i> , 2019, 714, 37-44.	2.6	11
27	Theoretical study of the mechanism of ruthenium catalyzed dehydrogenation of methanol-water mixture to H ₂ and CO ₂ . <i>Journal of Organometallic Chemistry</i> , 2016, 820, 55-61.	1.8	9
28	Computations on Pericyclic Reactions Reveal the Richness of Ambimodal Transition States and Pericyclases. <i>Israel Journal of Chemistry</i> , 2022, 62, .	2.3	9
29	Palladium-Catalyzed Silacyclization of (Hetero)Arenes with a Tetrasilane Reagent through Twofold C-H Activation. <i>Angewandte Chemie</i> , 2021, 133, 7142-7147.	2.0	7
30	Bitrialkylsilylethynyl thienoacenes: synthesis, molecular conformation and crystal packing, and their field-effect properties. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6403.	5.5	6
31	Generation of Oxyphosphonium Ions by Photoredox/Cobaloxime Catalysis for Scalable Amide and Peptide Synthesis in Batch and Continuous-Flow. <i>Angewandte Chemie</i> , 0, , .	2.0	4
32	Reversible CO Dissociation of Tricarbonyl Iodide [Fe]-Hydrogenase Models Ligating Acylmethylpyridyl Ligands. <i>Organometallics</i> , 2016, 35, 2993-2998.	2.3	3
33	Rational Development of Remote C-H Functionalization of Biphenyl: Experimental and Computational Studies. <i>Angewandte Chemie</i> , 2020, 132, 4800-4807.	2.0	3
34	Hydrogenation of Carbon Dioxide to Methanol Catalyzed by Iron, Cobalt, and Manganese Cyclopentadienone Complexes: Mechanistic Insights and Computational Design. <i>Chemistry - A European Journal</i> , 2017, 23, 8770-8770.	3.3	2
35	The Trajectory of the (Î-5-Cyclopentadienyl)cobalt-Mediated Cycloisomerization of Ene-Yne-Ene-Type Allyl Propargylic Ethers to Furans: A DFT Appraisal. <i>Synthesis</i> , 2021, 53, 4279-4289.	2.3	2
36	Frontispiece: Unexpected Direct Hydride Transfer Mechanism for the Hydrogenation of Ethyl Acetate to Ethanol Catalyzed by SNS Pincer Ruthenium Complexes. <i>Chemistry - A European Journal</i> , 2016, 22, .	3.3	0

#	ARTICLE	IF	CITATIONS
37	Mechanistic Insights and Computational Prediction of Base Metal Pincer Complexes for Catalytic Hydrogenation and Dehydrogenation Reactions. , 2018, , 101-110.		0
38	Innenr¼cktitelbild: Generation of Oxyphosphonium Ions by Photoredox/Cobaloxime Catalysis for Scalable Amide and Peptide Synthesis in Batch and Continuousâ€Flow (Angew. Chem. 5/2022). Angewandte Chemie, 2022, 134, .	2.0	0