

Chao Liu

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,272
citations

201658

27
h-index

223791

46
g-index

69
all docs

69
docs citations

69
times ranked

2220
citing authors

#	ARTICLE	IF	CITATIONS
1	Visible Light Gold Nanocluster Photocatalyst: Selective Aerobic Oxidation of Amines to Imines. <i>ACS Catalysis</i> , 2017, 7, 3632-3638.	11.2	165
2	Observation of Body-Centered Cubic Gold Nanocluster. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9826-9829.	13.8	147
3	C=O Functionalization of β -Oxyboronates: A Deoxygenative <i>gem</i> -Diborylation and <i>gem</i> -Silylborylation of Aldehydes and Ketones. <i>Journal of the American Chemical Society</i> , 2017, 139, 5257-5264.	13.7	142
4	Chiral Ag ₂₃ nanocluster with open shell electronic structure and helical face-centered cubic framework. <i>Nature Communications</i> , 2018, 9, 744.	12.8	132
5	Au ₃₈ S ₂ (SAdm) ₂₀ Photocatalyst for One-Step Selective Aerobic Oxidations. <i>ACS Catalysis</i> , 2017, 7, 3368-3374.	11.2	106
6	Tailored and Integrated Production of Functional Cellulose Nanocrystals and Cellulose Nanofibrils via Sustainable Formic Acid Hydrolysis: Kinetic Study and Characterization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9449-9463.	6.7	78
7	One-Pot Synthesis of Au ₁₁ (PPH ₂ Py) ₇ Br ₃ for the Highly Chemoselective Hydrogenation of Nitrobenzaldehyde. <i>ACS Catalysis</i> , 2016, 6, 92-99.	11.2	75
8	Comparative Evaluation of the Efficient Conversion of Corn Husk Filament and Corn Husk Powder to Valuable Materials via a Sustainable and Clean Biorefinery Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1327-1336.	6.7	73
9	Pure cellulose lithium-ion battery separator with tunable pore size and improved working stability by cellulose nanofibrils. <i>Carbohydrate Polymers</i> , 2021, 251, 116975.	10.2	72
10	Dual Functionalization of β -Monoboryl Carbanions through Deoxygenative Enolization with Carboxylic Acids. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 5501-5505.	13.8	67
11	Efficient Aerobic Oxidation of Glucose to Gluconic Acid over Activated Carbon-Supported Gold Clusters. <i>ChemSusChem</i> , 2017, 10, 1976-1980.	6.8	63
12	Recent Advances in Homogeneous Carbonylation Using CO ₂ as CO Surrogate. <i>Chinese Journal of Chemistry</i> , 2018, 36, 353-362.	4.9	63
13	Structure of the Au ₂₃ Ag _x (SAdm) ₁₅ Nanocluster and Its Application for Photocatalytic Degradation of Organic Pollutants. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11335-11339.	13.8	63
14	Catalytic CO Oxidation Using Bimetallic M _x Au ₂₅ Clusters: A Combined Experimental and Computational Study on Doping Effects. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10261-10267.	3.1	58
15	Aminoazanium of DABCO: An Amination Reagent for Alkyl and Aryl Pinacol Boronates. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 2745-2749.	13.8	53
16	Controlled growth of molecularly pure Au ₂₅ (SR) ₁₈ and Au ₃₈ (SR) ₂₄ nanoclusters from the same polydispersed crude product. <i>Science China Chemistry</i> , 2012, 55, 2359-2365.	8.2	52
17	Effect of regeneration solvent on the characteristics of regenerated cellulose from lithium bromide trihydrate molten salt. <i>Cellulose</i> , 2020, 27, 9243-9256.	4.9	48
18	Synthesis of Secondary and Tertiary Alkyl Boronic Esters by <i>gem</i> -Carborylation: Carbonyl Compounds as Bis(electrophile) Equivalents. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10318-10322.	13.8	44

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19	Chemodivergent transformations of amides using gem-diborylalkanes as pro-nucleophiles. <i>Nature Communications</i> , 2020, 11, 3113.	12.8	44
20	One-pot synthesis of Au ₁₄₄ (SCH ₂ Ph) ₆₀ nanoclusters and their catalytic application. <i>Journal of Materials Chemistry A</i> , 2015, 3, 20167-20173.	10.3	43
21	Stereoselective Synthesis of Trisubstituted Vinylboronates from Ketone Enolates Triggered by 1,3-Metalate Rearrangement of Lithium Enolates. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15813-15818.	13.8	38
22	Hydrothermal Synthesis of a CaNb ₂ O ₆ Hierarchical Micro/Nanostructure and Its Enhanced Photocatalytic Activity. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 1275-1282.	2.0	37
23	Selective hydrogenation of the C=C bond in $\hat{1},\hat{1}^2$ -unsaturated aldehydes and ketones over ultra-small Pd@Au clusters. <i>Nanoscale</i> , 2016, 8, 18626-18629.	5.6	37
24	Structural isomer and high-yield of Pt ₁ Ag ₂₈ nanocluster via one-pot chemical wet method. <i>Nano Research</i> , 2019, 12, 309-314.	10.4	36
25	[AuAg ₂₆ (SR) ₁₈ S] ⁺ Nanocluster: Open Shell Structure and High Faradaic Efficiency in Electrochemical Reduction of CO ₂ to CO. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 552-557.	4.6	36
26	Computational Investigation of the Role Played by Rhodium(V) in the Rhodium(III)-Catalyzed <i>ortho</i> -Bromination of Arenes. <i>Chemistry - A European Journal</i> , 2017, 23, 2690-2699.	3.3	32
27	Cooperation between an alcoholic proton and boryl species in the catalytic <i>gem</i> -hydrodiborylation of carboxylic esters to access 1,1-diborylalkanes. <i>Organic Chemistry Frontiers</i> , 2019, 6, 900-907.	4.5	30
28	One-step rapid synthesis, crystal structure and 3.3 microseconds long excited-state lifetime of Pd ₁ Ag ₂₈ nanocluster. <i>Nano Research</i> , 2020, 13, 366-372.	10.4	30
29	Extraction and Separation of Rare Earth Elements from Nitrate Medium with Mixtures of <i>sec</i> -Octylphenoxyacetic Acid and 2,2'-Bipyridyl. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 4281-4284.	1.9	26
30	Surface modification of adamantane-terminated gold nanoclusters using cyclodextrins. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 23358-23364.	2.8	26
31	Toward understanding the growth mechanism of Au _n (SR) _m nanoclusters: effect of solvent on cluster size. <i>RSC Advances</i> , 2013, 3, 9778.	3.6	25
32	Synthesis of ultrasmall platinum nanoparticles and structural relaxation. <i>Journal of Colloid and Interface Science</i> , 2014, 423, 123-128.	9.4	24
33	Efficient synthesis of Au ₉₉ (SR) ₄₂ nanoclusters. <i>Nanoscale</i> , 2015, 7, 5987-5990.	5.6	23
34	Cluster-to-cluster transformation among Au ₆ , Au ₈ and Au ₁₁ nanoclusters. <i>Dalton Transactions</i> , 2018, 47, 7487-7491.	3.3	22
35	Thermally robust silica-enclosed Au ₂₅ nanocluster and its catalysis. <i>Chinese Journal of Catalysis</i> , 2016, 37, 1787-1793.	14.0	20
36	Efficient palladium-catalyzed C(sp ²)-H activation towards the synthesis of fluorenes. <i>New Journal of Chemistry</i> , 2016, 40, 9030-9033.	2.8	19

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37	Î±-Câ€“H borylation of secondary alcohols <i>via</i> Ru/Fe relay catalysis: building a platform for alcoholic Câ€“H/Câ€“O functionalizations. <i>Chemical Communications</i> , 2019, 55, 11884-11887.	4.1	18
38	Aminoazanium of DABCO: An Amination Reagent for Alkyl and Aryl Pinacol Boronates. <i>Angewandte Chemie</i> , 2020, 132, 2767-2771.	2.0	14
39	Halogenâ€“Adjusted Chemoselective Synthesis of Fluorene Derivatives with Positionâ€“Controlled Substituents. <i>Chemistry - an Asian Journal</i> , 2016, 11, 211-215.	3.3	13
40	Recent advances in the synthesis and transformation of <i>gem</i>-borylsilylalkanes. <i>New Journal of Chemistry</i> , 2021, 45, 14847-14854.	2.8	13
41	Structure of the Au ₂₃ Ag ₁₅ (S-Adm) ₁₅ Nanocluster and Its Application for Photocatalytic Degradation of Organic Pollutants. <i>Angewandte Chemie</i> , 2019, 131, 11457-11461.	2.0	10
42	Synthesis and structure of Au ₁₉ Ag ₄ (S-Adm) ₁₅ nanocluster: Polymorphs and optical properties. <i>Chinese Chemical Letters</i> , 2021, 32, 565-568.	9.0	10
43	Reversible conversion between phosphine protected Au ₆ and Au ₈ nanoclusters under oxidative/reductive conditions. <i>Nanoscale</i> , 2017, 9, 2424-2427.	5.6	9
44	Correlating Kernelâ€“Shell Structures with Optical Properties of Pt ₁ Ag ₂₄ and Pt ₁ Ag ₁₄ Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2194-2201.	3.1	9
45	Influence of drying methods on the structure and properties of cellulose formate and its application as a reducing agent. <i>International Journal of Biological Macromolecules</i> , 2021, 170, 397-405.	7.5	9
46	Double Carbonylation Using Glyoxal (HCOCOH): A Practical Copperâ€“Promoted Synthesis of Isatins from Primary and Secondary Anilines. <i>Advanced Synthesis and Catalysis</i> , 2017, 359, 3484-3489.	4.3	7
47	Amelioration of Physical Properties and Printability of Paper Coated with N-methylated Chitosan. <i>Scientific Reports</i> , 2020, 10, 9936.	3.3	7
48	The doping engineering and crystal structure of rod-like Au ₈ Ag ₁₇ nanoclusters. <i>Journal of Chemical Physics</i> , 2021, 155, 074301.	3.0	7
49	Deoxygenative Transformation of Carbonyl and Carboxyl Compounds Using gem-Diborylalkanes. <i>Synlett</i> , 2019, 30, 1105-1110.	1.8	6
50	A Pd-catalyzed optional approach for the synthesis of dibenzothiophenes. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 2083-2087.	2.8	5
51	Controlled synthesis of pure Au ₂₅ (2-Nap) ₁₈ and Au ₃₆ (2-Nap) ₂₄ nanoclusters from 2-(diphenylphosphino)pyridine protected Au nanoclusters. <i>RSC Advances</i> , 2016, 6, 105166-105170.	3.6	4
52	Cu ²⁺ â€“Induced Structural Isomers: Effect of Foreign Metal Ions on the Structure and Properties of Silver Nanoclusters. <i>Chemistry - an Asian Journal</i> , 2019, 14, 972-976.	3.3	4
53	Impact of ammonium sulfite-based sequential pretreatment combinations on two distinct saccharifications of wheat straw. <i>RSC Advances</i> , 2020, 10, 17129-17142.	3.6	4
54	Synthesis and Optical Properties of Unique Pt ₁ Ag ₂₄ Nanoclusters with Mixed Exterior Motif Structures. <i>Inorganic Chemistry</i> , 2021, 60, 10167-10172.	4.0	4

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55	Atomically precise structures of Pt ₂ (S-Adam) ₄ (PPh ₃) ₂ complexes and catalytic application in propane dehydrogenation. <i>Nanoscale</i> , 2022, 14, 2482-2489.	5.6	3
56	Highly Efficient Synthesis of Au ₁₃₀ (SPh-Br) ₅₀ Nanocluster. <i>Chemical Research in Chinese Universities</i> , 2018, 34, 719-722.	2.6	2
57	The synthesis and structure of the [PdAu ₁₃ (PPh ₃) ₃ (SR) ₇] ⁺ nanocluster. <i>Nanoscale</i> , 2020, 12, 11825-11829.	5.6	1
58	Location of Cu Atom in Au-Based Nanocluster and Its Optical Properties. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 2281-2283.	2.0	1