Hai-Zhu Yu

List of Publications by Year
in descending order

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106	4,105	117625	123424
papers	citations	34 h-index	61 g-index

113	113	113	4137
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Copperâ€Catalyzed Decarboxylative Crossâ€Coupling of Potassium Polyfluorobenzoates with Aryl Iodides and Bromides. Angewandte Chemie - International Edition, 2009, 48, 9350-9354.	13.8	282
2	Bimetallic Au₂Cu₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species. Angewandte Chemie - International Edition, 2016, 55, 3611-3614.	13.8	200
3	Alternative Mechanistic Explanation for Ligand-Dependent Selectivities in Copper-Catalyzed N- and O-Arylation Reactions. Journal of the American Chemical Society, 2010, 132, 18078-18091.	13.7	196
4	The photoluminescent metal nanoclusters with atomic precision. Coordination Chemistry Reviews, 2019, 378, 595-617.	18.8	178
5	Crystallization-induced emission enhancement: A novel fluorescent Au-Ag bimetallic nanocluster with precise atomic structure. Science Advances, 2017, 3, e1700956.	10.3	167
6	Ligandâ€Controlled Regiodivergent Copperâ€Catalyzed Alkylboration of Alkenes. Angewandte Chemie - International Edition, 2015, 54, 12957-12961.	13.8	164
7	Roomâ€Temperature Decarboxylative Couplings of Î±â€Oxocarboxylates with Aryl Halides by Merging Photoredox with Palladium Catalysis. Chemistry - A European Journal, 2015, 21, 13191-13195.	3.3	132
8	Mechanistic Study of Chemoselectivity in Ni-Catalyzed Coupling Reactions between Azoles and Aryl Carboxylates. Journal of the American Chemical Society, 2014, 136, 8252-8260.	13.7	125
9	Two-Photon Fluorescent Probe for Monitoring Autophagy via Fluorescence Lifetime Imaging. Analytical Chemistry, 2018, 90, 7122-7126.	6.5	117
10	Mechanism of the Visible Light-Mediated Gold-Catalyzed Oxyarylation Reaction of Alkenes. ACS Catalysis, 2016, 6, 798-808.	11.2	91
11	Mechanism of Vanadium-Catalyzed Selective Câ€“O and Câ€“C Cleavage of Lignin Model Compound. ACS Catalysis, 2016, 6, 4399-4410.	11.2	90
12	In Situ Two-Phase Ligand Exchange: A New Method for the Synthesis of Alloy Nanoclusters with Precise Atomic Structures. Journal of the American Chemical Society, 2017, 139, 5668-5671.	13.7	90
13	Radical Carbofluorination of Unactivated Alkenes with Fluoride Ions. Journal of the American Chemical Society, 2018, 140, 6169-6175.	13.7	87
14	A two-photon fluorescent probe for real-time monitoring of autophagy by ultrasensitive detection of the change in lysosomal polarity. Chemical Communications, 2017, 53, 3645-3648.	4.1	85
15	Total Structure Determination of Au₁₆(S-Adm)₁₂ and Cd₁Au₁₄(StBu)₁₂ and Implications for the Structure of Au₁₅(SR)₁₃. Journal of the American Chemical Society, 2018, 140, 10988-10994.	13.7	81
16	A Unique Pair: Ag₄₀ and Ag₄₆ Nanoclusters with the Same Surface but Different Cores for Structureâ€“Property Correlation. Journal of the American Chemical Society, 2018, 140, 15582-15585.	13.7	80
17	Polypropylene Modified with Amidoxime/Carboxyl Groups in Separating Uranium(VI) from Thorium(IV) in Aqueous Solutions. ACS Sustainable Chemistry and Engineering, 2017, 5, 1924-1930.	6.7	75
18	Size-confined growth of atom-precise nanoclusters in metalâ€“organic frameworks and their catalytic applications. Nanoscale, 2016, 8, 1407-1412.	5.6	74

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19	Shapeâ€Controlled Synthesis of Trimetallic Nanoclusters: Structure Elucidation and Properties Investigation. Chemistry - A European Journal, 2016, 22, 17145-17150.	3.3	67
20	A ratiometric two-photon fluorescent probe for hydrazine and its applications. Sensors and Actuators B: Chemical, 2015, 220, 1338-1345.	7.8	63
21	Substrateâ€Assisted, Transitionâ€Metalâ€Free Diboration of Alkynamides with Mixed Diboron: Regioâ€and Stereoselective Access to transâ€1,2â€Vinyldiboronates. Angewandte Chemie - International Edition, 2017, 56, 5111-5115.	13.8	61
22	Exposing the Delocalized Cuâ^'S Ï€ Bonds on the Au₂₄Cu₆(SPhtBu)₂₂ Nanocluster and Its Application in Ringâ€Opening Reactions. Angewandte Chemie - International Edition, 2019, 58, 15671-15674.	13.8	54
23	Mechanistic Study of Borylation of Nitriles Catalyzed by Rhâ€“B and Irâ€“B Complexes via Câ€“CN Bond Activation. Organometallics, 2013, 32, 926-936.	2.3	48
24	Selective Radical Fluorination of Tertiary Alkyl Halides at Room Temperature. Angewandte Chemie - International Edition, 2017, 56, 15411-15415.	13.8	46
25	Bimetallic Au₂Cu₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species. Angewandte Chemie, 2016, 128, 3675-3678.	2.0	44
26	Crystal Structures of Two New Goldâ€“Copper Bimetallic Nanoclusters: Cu_xAu_{25â€“x}(PPh₃)₁₀(PhC₂H₄S)₅ and Cu₃Au₃₄(PPh₃)₁₃(^tBuPhCH₂S)₆S₂ Inorganic Chemistry, 2017, 56, 1771-1774.	4.0	44
27	Heteroatom Effects on the Optical and Electrochemical Properties of Ag₂₅(SR)₁₈ and Its Dopants. ChemElectroChem, 2016, 3, 1261-1265.	3.4	42
28	A mitochondria-targeted ratiometric two-photon fluorescent probe for biological zinc ions detection. Biosensors and Bioelectronics, 2016, 77, 921-927.	10.1	42
29	Synthesis and Structure of Self-Assembled Pd₂Au₂₃(PPh₃)₁₀Br₇ Nanocluster: Exploiting Factors That Promote Assembly of Icosahedral Nano-Building-Blocks. Chemistry of Materials, 2017, 29, 6856-6862.	6.7	40
30	Mechanistic Origin of Crossâ€Coupling Selectivity in Niâ€Catalysed Tishchenko Reactions. Chemistry - A European Journal, 2012, 18, 16765-16773.	3.3	38
31	Rhombicuboctahedral Ag₁₀₀: Fourâ€Layered Octahedral Silver Nanocluster Adopting the Russian Nesting Doll Model. Angewandte Chemie - International Edition, 2020, 59, 17234-17238.	13.8	38
32	Mechanism of Ligandâ€Controlled Regioselectivityâ€Switchable Copperâ€Catalyzed Alkylboration of Alkenes. Chemistry - A European Journal, 2016, 22, 14611-14617.	3.3	36
33	Modulating photo-luminescence of Au₂Cu₆ nanoclusters via ligand-engineering. RSC Advances, 2017, 7, 28606-28609.	3.6	35
34	Mechanism and Origin of the Stereoselectivity in the Palladiumâ€Catalyzed trans Hydroboration of Internal 1,3â€Enynes with an Azaborineâ€Based Phosphine Ligand. Chemistry - A European Journal, 2018, 24, 178-186.	3.3	35
35	Theoretical Investigations on Mechanisms of Pd(OAc)₂-Catalyzed Intramolecular Diaminations in the Presence of Bases and Oxidants. Organometallics, 2009, 28, 4507-4512.	2.3	34
36	Mechanistic Study on Ligand-Controlled Rh(I)-Catalyzed Coupling Reaction of Alkene-Benzocyclobutenone. ACS Catalysis, 2015, 5, 4881-4889.	11.2	34

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37	Au₁₅Ag₃(SPhMe₂)₁₄ Nanoclusters â€“ Crystal Structure and Insights into Ligandâ€Induced Variation. European Journal of Inorganic Chemistry, 2017, 2017, 1414-1419.	2.0	34
38	The solely motif-doped Au_{36â^'x}Ag_x(SPh-tBu)₂₄(x = 1â€“8) nanoclusters: X-ray crystal structure and optical properties. Nanoscale, 2016, 8, 15317-15322.	5.6	32
39	Mechanism of Nickel(II)â€Catalyzed Oxidative C(sp²)â^'H/C(sp³)â^'H Coupling of Benzamides and Toluene Derivatives. Chemistry - an Asian Journal, 2015, 10, 2479-2483.	3.3	31
40	Selective separation of thorium from rare earths and uranium in acidic solutions by phosphorodiamidate-functionalized silica. Chemical Engineering Journal, 2020, 392, 123717.	12.7	31
41	Single-ligand exchange on an Auâ€“Cu bimetal nanocluster and mechanism. Nanoscale, 2018, 10, 12093-12099.	5.6	30
42	Mechanism and Origins of Chemo- and Regioselectivities of Pd-Catalyzed Intermolecular Ïƒ-Bond Exchange between Benzocyclobutenones and Silacyclobutanes: A Computational Study. Organometallics, 2018, 37, 592-602.	2.3	29
43	Mechanism of Boron-CatalyzedN-Alkylation of Amines with Carboxylic Acids. Journal of Organic Chemistry, 2016, 81, 6235-6243.	3.2	27
44	Mechanism of Nickelâ€Catalyzed Suzukiâ€“Miyaura Coupling of Amides. Chemistry - an Asian Journal, 2017, 12, 1765-1772.	3.3	25
45	The Structure of a Au₇Cu₁₂ Bimetal Nanocluster and Its Strong Emission. Inorganic Chemistry, 2019, 58, 7136-7140.	4.0	25
46	A single palladium site catalyst as a bridge for converting homogeneous to heterogeneous in dimerization of terminal aryl acetylenes. Materials Chemistry Frontiers, 2018, 2, 1317-1322.	5.9	23
47	Computational Study of Formic Acid Dehydrogenation Catalyzed by Al^{III}â€“Bis(imino)pyridine. Chemistry - A European Journal, 2016, 22, 4584-4591.	3.3	22
48	Density functional theory calculations on Sâ€•S bond dissociation energies of disulfides. Journal of Physical Organic Chemistry, 2016, 29, 6-13.	1.9	22
49	Cancer cell specific fluorescent methionine protected gold nanoclusters for in-vitro cell imaging studies. Talanta, 2018, 188, 259-265.	5.5	22
50	New atomically precise M1Ag21 (M = Au/Ag) nanoclusters as excellent oxygen reduction reaction catalysts. Chemical Science, 2021, 12, 3660-3667.	7.4	22
51	Mechanistic Study on Gold-Catalyzed Highly Selective Hydroamination of Alkylidenecyclopropanes. Journal of Organic Chemistry, 2016, 81, 7326-7335.	3.2	20
52	Mechanistic Study on Nickelâ€Catalyzed Silylation of Aryl Methyl Ethers. Chemistry - A European Journal, 2017, 23, 17249-17256.	3.3	20
53	Multiple Ways Realizing Chargeâ€State Transform in Auï£¿Cu Bimetallic Nanoclusters with Atomic Precision. Small, 2021, 17, e1907114.	10.0	19
54	A novel carbazole derivative containing fluorobenzene unit: aggregation-induced fluorescence emission, polymorphism, mechanochromism and non-reversible thermo-stimulus fluorescence. CrystEngComm, 2018, 20, 2772-2779.	2.6	18

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55	Versatile Ligand-Exchange Method for the Synthesis of Water-Soluble Monodisperse AuAg Nanoclusters for Cancer Therapy. ACS Applied Nano Materials, 2018, 1, 6773-6781.	5.0	17
56	Boosting the Activity of Ligandâ€on Atomically Precise Pd₃Cl Cluster Catalyst by Metalâ€Support Interaction from Kinetic and Thermodynamic Aspects. Advanced Synthesis and Catalysis, 2018, 360, 4731-4743.	4.3	17
57	All-thiolate-stabilized Ag42 nanocluster with a tetrahedral kernel and its transformation to an Ag61 nanocluster with a bi-tetrahedral kernel. Chemical Communications, 2020, 56, 7605-7608.	4.1	17
58	Density functional theory investigation on Pd-catalyzed cross-coupling of azoles with aryl thioethers. Organic and Biomolecular Chemistry, 2016, 14, 4499-4506.	2.8	16
59	Noble and valuable: atomically precise gold nanoclusters. Science China Chemistry, 2016, 59, 206-208.	8.2	15
60	X-ray crystal structure and doping mechanism of bimetallic nanocluster Au_{36â^'x}Cu_x(m-MBT)₂₄(x= 1â€“3). Dalton Transactions, 2018, 47, 475-480.	3.3	15
61	Mechanistic Insights into the Nickel-Catalyzed Regioselective Carboxylation of Allylic Alcohols. Organometallics, 2021, 40, 869-879.	2.3	15
62	Steric and Electrostatic Control of the pH-Regulated Interconversion of Au₁₆(SR)₁₂ and Au₁₈(SR)₁₄ (SR: Deprotonated) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.6	14
63	Accurate Prediction of Iï¿¿H Bond Dissociation Enthalpies by Density Functional Theory Methods. Chinese Journal of Chemistry, 2014, 32, 269-275.	4.9	12
64	A self-catalytic role of methanol in PNP-Ru pincer complex catalysed dehydrogenation. Science China Chemistry, 2016, 59, 724-729.	8.2	12
65	Highly selective conversion of glyceric acid to 3-iodopropionic acid by hydriodic acid mediated hydrogenation. Green Chemistry, 2019, 21, 4434-4442.	9.0	12
66	Mechanistic Study on Decarbonylative Phosphorylation of Aryl Amides by Nickel Catalysis. Journal of Organic Chemistry, 2019, 84, 9474-9479.	3.2	12
67	Mechanistic Study on the Ruthenium-Catalyzed Terminal Alkyne Hydrochlorination. Organometallics, 2017, 36, 523-529.	2.3	11
68	The coordination of amidoxime ligands with uranyl in the gas phase: a mass spectrometry and DFT study. Dalton Transactions, 2016, 45, 16413-16421.	3.3	10
69	Faceâ€Centeredâ€Cubic Ag Nanoclusters: Origins and Consequences of the High Structural Regularity Elucidated by Density Functional Theory Calculations. Chemistry - A European Journal, 2019, 25, 13977-13986.	3.3	10
70	Mechanistic Investigation of Visible-Light-Induced Intermolecular [2 + 2] Photocycloaddition Catalyzed with Chiral Thioxanthone. Journal of Physical Chemistry A, 2017, 121, 4552-4559.	2.5	9
71	Superior ligand for Pd(II)-catalyzed enantioselective arylation of C(sp3)â€“H bonds: chiral acetyl protected aminoethyl quinoline. Science China Chemistry, 2017, 60, 165-166.	8.2	9
72	Mechanistic insights into the ligand-controlled regioselectivity in Cu-catalyzed terminal alkynes alkylboration. Journal of Organometallic Chemistry, 2018, 871, 48-55.	1.8	9

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73	Mechanism of Photocatalytic Cyclization of Bromoalkenes with a Dimeric Gold Complex. Organometallics, 2018, 37, 1725-1733.	2.3	9
74	Exposing the Delocalized Cuâ˜'S Ï€ Bonds on the Au 24 Cu 6 (SPh t Bu) 22 Nanocluster and Its Application in Ringâ€Opening Reactions. Angewandte Chemie, 2019, 131, 15818-15821.	2.0	9
75	A mechanistic study on the regioselective Ni-catalyzed methylationâ€“alkenylation of alkyne with AlMe₃ and allylic alcohol. Organic Chemistry Frontiers, 2021, 9, 163-172.	4.5	9
76	Pdâ€Catalyzed Vinylation of Aryl Halides with Inexpensive Organosilicon Reagents Under Mild Conditions. Chemistry - A European Journal, 2018, 24, 10324-10328.	3.3	8
77	The Structureâ€“Property Correlations in the Isomerism of Au 21 (SR) 15 Nanoclusters by Density Functional Theory Study. Chemistry - an Asian Journal, 2019, 14, 4303-4308.	3.3	8
78	Core Charge Density Dominated Sizeâ€Conversion from Au₆P₈ to Au₈P₈Cl₂. Chemistry - A European Journal, 2020, 26, 12382-12387.	3.3	8
79	Secondary ligand engineering of nanoclusters: Effects on molecular structures, supramolecular aggregates, and optical properties. Aggregate, 2023, 4, .	9.9	8
80	Mechanistic insights into the ruthenium-catalyzed site-selective oxidation of alcohols. Organic Chemistry Frontiers, 2018, 5, 2473-2478.	4.5	7
81	The geometric and electronic structures of a Ag₁₃Cu₁₀(SAdm)₁₂X₃ nanocluster. Dalton Transactions, 2020, 49, 17164-17168.	3.3	7
82	A mechanistic study on Cu(i) catalyzed carboxylation of the Câ€“F bond with CO2: a DFT study. Organic and Biomolecular Chemistry, 2020, 18, 9065-9071.	2.8	7
83	Redox-Induced Interconversion of Two Au₈ Nanoclusters: the Mechanism and the Structureâ€“Bond Dissociation Activity Correlations. Inorganic Chemistry, 2021, 60, 5724-5733.	4.0	7
84	Mechanism of the Ir/Pd catalyzed photocarboxylation of aryl halides. Chinese Chemical Letters, 2021, 32, 1403-1406.	9.0	7
85	A novel geometric structure of a nanocluster with an irregular kernel: Ag₃₀Cu₁₄(TPP)₄(SR)₂₈. Dalton Transactions, 2020, 49, 7684-7687.	3.3	7
86	Structureâ€“activity relationships in Pd catalysed Câ€“S activation of thioesters. RSC Advances, 2016, 6, 61996-62004.	3.6	6
87	Theoretical investigations on the structureâ€“property relationships of Au₁₃and Au_xM_{13â^'x}nanoclusters. RSC Advances, 2017, 7, 51538-51545.	3.6	5
88	Binding affinity of pyridines with Am^{III}/Cm^{III} elucidated by density functional theory calculations. Dalton Transactions, 2019, 48, 1613-1623.	3.3	5
89	Structure and Properties of of Physical Chemistry C, 2020, 124, 21867-21873.	3.1	5
90	Mechanistic study on the regioselective Ni-catalyzed dicarboxylation of 1,3-dienes with CO₂. Organic Chemistry Frontiers, 2020, 7, 4080-4088.	4.5	5

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91	Rhombicuboctahedral Ag₁₀₀: Fourâ€Layered Octahedral Silver Nanocluster Adopting the Russian Nesting Doll Model. Angewandte Chemie, 2020, 132, 17387-17391.	2.0	5
92	The Ligandâ€Exchange Reactions of Rodâ€Like Au 25â€n M n (M=Au, Ag, Cu, Pd, Pt) Nanoclusters with Cysteine â€“ A Density Functional Theory Study. ChemPhysChem, 2019, 20, 1822-1829.	2.1	4
93	Unexpected Observation of Heavy Monomeric Motifs in a Basket-like Au₂₆Ag₂₂ Nanocluster. Inorganic Chemistry, 2019, 58, 1724-1727.	4.0	4
94	Ligand Effect on Geometry and Electronic Structures of Face-Centered Cubic Ag₁₄ and Ag₂₃ Nanoclusters. Journal of Physical Chemistry C, 2020, 124, 13421-13426.	3.1	4
95	DFT insights into the Ni-catalyzed regioselective hydrocarboxylation of unsaturated alkenes with CO₂. Dalton Transactions, 2021, 50, 15084-15093.	3.3	4
96	Fluorescence signal amplification of gold nanoclusters with silver ions. Analytical Methods, 2018, 10, 5181-5187.	2.7	3
97	Pivotal Electron Delivery Effect of the Cobalt Catalyst in Photocarboxylation of Alkynes: A DFT Calculation. Journal of Organic Chemistry, 2021, 86, 1540-1548.	3.2	3
98	Desulfurization Mechanism of Cysteine in Synthesis of Polypeptides. Chinese Journal of Chemical Physics, 2015, 28, 269-276.	1.3	2
99	The pivotal alkyne group in the mutual size-conversion of Au9 with Au10 nanoclusters. Dalton Transactions, 2021, 50, 10113-10118.	3.3	2
100	Density Functional Theory Investigations on the Mechanism of Formation of Pa(V) Ion in Hydrous Solutions. Molecules, 2019, 24, 1169.	3.8	1
101	Density functional theory investigations on the coordination of Pa(v) with N,N-dialkylamide. New Journal of Chemistry, 2020, 44, 9477-9484.	2.8	1
102	Structure Determination of the Cl-Enriched [Ag₅₂(SAdm)₃₁Cl₁₃]²⁺ Nanocluster. Inorganic Chemistry, 2021, 60, 14803-14809.	4.0	1
103	Aggregative Growth of Oligopeptideâ€Protected Gold Nanoclusters into Plasmonic Particles. ChemNanoMat, 0, , e202100449.	2.8	1
104	The self-assembled AgCd nanoclusters: A novel plutonium separating material. Chemical Engineering Journal, 2022, 431, 134169.	12.7	1
105	Titelbild: Bimetallic Au₂Cu₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species (Angew. Chem. 11/2016). Angewandte Chemie, 2016, 128, 3577-3577.	2.0	0
106	Front Cover Picture: Boosting the Activity of Ligandâ€on Atomically Precise Pd₃Cl Cluster Catalyst by Metalâ€Support Interaction from Kinetic and Thermodynamic Aspects (Adv. Synth. Catal.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.9	0