Chuanhao Yao

List of Publications by Year
in descending order

41 papers	3,004 citations	147801 31 h-index	302126 39 g-index
41 all docs	41 docs citations	41 times ranked	2463 citing authors

#	Article	IF	Citations
1	Mono-cadmium vs Mono-mercury Doping of Au₂₅ Nanoclusters. Journal of the American Chemical Society, 2015, 137, 15350-15353.	13.7	211
2	Mono-Mercury Doping of Au₂₅ and the HOMO/LUMO Energies Evaluation Employing Differential Pulse Voltammetry. Journal of the American Chemical Society, 2015, 137, 9511-9514.	13.7	206
3	Adding Two Active Silver Atoms on Au₂₅ Nanoparticle. Nano Letters, 2015, 15, 1281-1287.	9.1	171
4	Fluorescent Gold Nanoclusters with Interlocked Staples and a Fully Thiolateâ€Bound Kernel. Angewandte Chemie - International Edition, 2016, 55, 11567-11571.	13.8	159
5	The fourth crystallographic closest packing unveiled in the gold nanocluster crystal. Nature Communications, 2017, 8, 14739.	12.8	151
6	Structure of Chiral Au₄₄(2,4-DMBT)₂₆ Nanocluster with an 18-Electron Shell Closure. Journal of the American Chemical Society, 2016, 138, 10425-10428.	13.7	149
7	Atomic engineering of high-density isolated Co atoms on graphene with proximal-atom controlled reaction selectivity. Nature Communications, 2018, 9, 3197.	12.8	146
8	Ultrafast Electrochemical Expansion of Black Phosphorus toward High-Yield Synthesis of Few-Layer Phosphorene. Chemistry of Materials, 2018, 30, 2742-2749.	6.7	132
9	Engineering Local and Global Structures of Single Co Atoms for a Superior Oxygen Reduction Reaction. ACS Catalysis, 2020, 10, 5862-5870.	11.2	126
10	Structures and magnetism of mono-palladium and mono-platinum doped Au₂₅(PET)₁₈nanoclusters. Chemical Communications, 2016, 52, 9873-9876.	4.1	120
11	Crystal and Solution Photoluminescence of MAg₂₄(SR)₁₈ (M = Ag/Pd/Pt/Au) Nanoclusters and Some Implications for the Photoluminescence Mechanisms. Journal of Physical Chemistry C, 2017, 121, 13848-13853.	3.1	120
12	Atomically-precise dopant-controlled single cluster catalysis for electrochemical nitrogen reduction. Nature Communications, 2020, 11, 4389.	12.8	110
13	Fiber-like nanostructured Ti4O7 used as durable fuel cell catalyst support in oxygen reduction catalysis. Journal of Materials Chemistry, 2012, 22, 16560.	6.7	90
14	Ordered clustering of single atomic Te vacancies in atomically thin PtTe2 promotes hydrogen evolution catalysis. Nature Communications, 2021, 12, 2351.	12.8	83
15	The Fourth Alloying Mode by Way of Antiâ€Galvanic Reaction. Angewandte Chemie - International Edition, 2018, 57, 4500-4504.	13.8	81
16	Giant Emission Enhancement of Solidâ€State Gold Nanoclusters by Surface Engineering. Angewandte Chemie - International Edition, 2020, 59, 8270-8276.	13.8	63
17	The fcc structure isomerization in gold nanoclusters. Nanoscale, 2017, 9, 14809-14813.	5.6	62
18	A novel double-helical-kernel evolution pattern of gold nanoclusters: alternate single-stranded growth at both ends. Nanoscale, 2017, 9, 3742-3746.	5.6	58

#	Article	IF	Citations
19	A Silver Nanocluster Containing Interstitial Sulfur and Unprecedented Chemical Bonds. Angewandte Chemie - International Edition, 2018, 57, 11273-11277.	13.8	57
20	Zeroâ€Valent Palladium Singleâ€Atoms Catalysts Confined in Black Phosphorus for Efficient Semiâ€Hydrogenation. Advanced Materials, 2021, 33, e2008471.	21.0	55
21	Transition-sized Au₉₂nanoparticle bridging non-fcc-structured gold nanoclusters and fcc-structured gold nanocrystals. Chemical Communications, 2016, 52, 12036-12039.	4.1	54
22	Chemicoâ€Physical Synthesis of Surfactantâ€•and Ligandâ€Free Gold Nanoparticles and Their Antiâ€Galvanic Reduction Property. Chemistry - an Asian Journal, 2014, 9, 1006-1010.	3.3	52
23	Quantitatively Monitoring the Size-Focusing of Au Nanoclusters and Revealing What Promotes the Size Transformation from Au₄₄(TBBT)₂₈ to Au₃₆(TBBT)₂₄. Analytical Chemistry, 2016, 88, 11297-11301.	6.5	48
24	Is the kernelâ€“staples match a keyâ€“lock match?. Chemical Science, 2018, 9, 2437-2442.	7.4	48
25	The Design and Bioimaging Applications of NIR Fluorescent Organic Dyes with High Brightness. Advanced Optical Materials, 2022, 10, .	7.3	45
26	Excited-State Behaviors of M₁Au₂₄(SR)₁₈ Nanoclusters: The Number of Valence Electrons Matters. Journal of Physical Chemistry C, 2018, 122, 13435-13442.	3.1	44
27	Fluorescent Gold Nanoclusters with Interlocked Staples and a Fully Thiolateâ€Bound Kernel. Angewandte Chemie, 2016, 128, 11739-11743.	2.0	42
28	Synthesis of fluorescent phenylethanethiolated gold nanoclusters via pseudo-AGR method. Nanoscale, 2015, 7, 16200-16203.	5.6	41
29	Janus electrochemical exfoliation of two-dimensional materials. Journal of Materials Chemistry A, 2019, 7, 25691-25711.	10.3	41
30	Polydatin protects SH-SY5Y in models of Parkinson's disease by promoting Atg5-mediated but parkin-independent autophagy. Neurochemistry International, 2020, 134, 104671.	3.8	41
31	Ion-precursor and ion-dose dependent anti-galvanic reduction. Chemical Communications, 2015, 51, 11773-11776.	4.1	35
32	Reduction-resistant and reduction-catalytic double-crown nickel nanoclusters. Nanoscale, 2014, 6, 14195-14199.	5.6	33
33	The Factors Dictating Properties of Atomically Precise Metal Nanocluster Electrocatalysts. Small, 2022, 18, e2200812.	10.0	25
34	A Silver Nanocluster Containing Interstitial Sulfur and Unprecedented Chemical Bonds. Angewandte Chemie, 2018, 130, 11443-11447.	2.0	24
35	Identifying the Real Chemistry of the Synthesis and Reversible Transformation of AuCd Bimetallic Clusters. Journal of the American Chemical Society, 2022, 144, 14248-14257.	13.7	23
36	Recent Advances in Flexible Znâ€“Air Batteries: Materials for Electrodes and Electrolytes. Small Methods, 2022, 6, e2101116.	8.6	21

#	Article	IF	Citations
37	The Fourth Alloying Mode by Way of Anti-Galvanic Reaction. Angewandte Chemie, 2018, 130, 4590-4594.	2.0	20
38	Giant Emission Enhancement of Solidâ€State Gold Nanoclusters by Surface Engineering. Angewandte Chemie, 2020, 132, 8347-8353.	2.0	15
39	Design, synthesis and evaluation of protein disulfide isomerase inhibitors with nitric oxide releasing activity. Bioorganic and Medicinal Chemistry Letters, 2020, 30, 126898.	2.2	2
40	Frontispiz: The Fourth Alloying Mode by Way of Antiâ€Galvanic Reaction. Angewandte Chemie, 2018, 130, .	2.0	0
41	Frontispiece: The Fourth Alloying Mode by Way of Antiâ€Galvanic Reaction. Angewandte Chemie - International Edition, 2018, 57, .	13.8	0