Meng Zhou

List of Publications by Year
in descending order

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71 papers	6,538 citations	94269 37 h-index	88477 70 g-index
71 all docs	71 docs citations	71 times ranked	5542 citing authors

#	Article	IF	Citations
1	Understanding nascent plasmons and metallic bonding in atomically precise gold nanoclusters. Chemical Science, 2022, 13, 1925-1932.	3.7	8
2	Atomic structure of a seed-sized gold nanoprism. Nature Communications, 2022, 13, 1235.	5.8	9
3	Optical properties of gold nanoclusters constructed from Au₁₃ units. Aggregate, 2022, 3, .	5.2	18
4	Coherent vibrational dynamics of Au₁₄₄(SR)₆₀ nanoclusters. Chemical Science, 2022, 13, 8124-8130.	3.7	8
5	Single-electron charging and ultrafast dynamics of bimetallic Au144â^'xAgx(PET)60 nanoclusters. Nano Research, 2022, 15, 8573-8578.	5.8	8
6	Optical Properties and Excited-State Dynamics of Atomically Precise Gold Nanoclusters. Annual Review of Physical Chemistry, 2021, 72, 121-142.	4.8	40
7	Ultrabright Au@Cu ₁₄ nanoclusters: 71.3% phosphorescence quantum yield in non-degassed solution at room temperature. Science Advances, 2021, 7, .	4.7	89
8	Origins of Visible and Near-Infrared Emissions in [Au₂₅(SR)₁₈]^{â^'} Nanoclusters. Journal of Physical Chemistry Letters, 2021, 12, 1514-1519.	2.1	56
9	AKT1-CREB stimulation of PDGFRÎ± expression is pivotal for PTEN deficient tumor development. Cell Death and Disease, 2021, 12, 172.	2.7	15
10	Programmable Metal Nanoclusters with Atomic Precision. Advanced Materials, 2021, 33, e2006591.	11.1	60
11	Double-helical assembly of heterodimeric nanoclusters into supercrystals. Nature, 2021, 594, 380-384.	13.7	138
12	Poly-L-arginine promotes asthma angiogenesis through induction of FGFBP1 in airway epithelial cells via activation of the mTORC1-STAT3 pathway. Cell Death and Disease, 2021, 12, 761.	2.7	12
13	The Critical Number of Gold Atoms for a Metallic State Nanocluster: Resolving a Decades-Long Question. ACS Nano, 2021, 15, 13980-13992.	7.3	49
14	RUNX1/EGFR Pathway Contributes to STAT3 Activation and Tumor Growth Caused by Hyperactivated mTORC1. Molecular Therapy - Oncolytics, 2021, 23, 387-401.	2.0	10
15	Coherent vibrational dynamics of [Au25(SR)18]- nanoclusters. Chinese Journal of Chemical Physics, 2021, 34, 598-604.	0.6	6
16	Effect of single electrons on the excited state dynamics of rod-shaped Au₂₅ nanoclusters. Nanoscale, 2021, 13, 19438-19445.	2.8	5
17	MicroRNA-144: A novel biological marker and potential therapeutic target in human solid cancers. Journal of Cancer, 2020, 11, 6716-6726.	1.2	9
18	KLF5-mediated COX2 upregulation contributes to tumorigenesis driven by PTEN deficiency. Cellular Signalling, 2020, 75, 109767.	1.7	7

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19	Isomerization-induced enhancement of luminescence in Au₂₈(SR)₂₀ nanoclusters. Chemical Science, 2020, 11, 8176-8183.	3.7	42
20	Atom-by-Atom Evolution of the Same Ligand-Protected Au₂₁, Au₂₂, Au₂₂Cd₁, and Au₂₄ Nanocluster Series. Journal of the American Chemical Society, 2020, 142, 20426-20433.	6.6	36
21	Upregulation of 6â€phosphofructoâ€2â€kinase (PFKFB3) by hyperactivated mammalian target of rapamycin complex 1 is critical for tumor growth in tuberous sclerosis complex. IUBMB Life, 2020, 72, 965-977.	1.5	10
22	Effect of Composition on the Spin Relaxation of Lead Halide Perovskites. Journal of Physical Chemistry Letters, 2020, 11, 1502-1507.	2.1	47
23	Heterometal-Doped M₂₃ (M = Au/Ag/Cd) Nanoclusters with Large Dipole Moments. ACS Nano, 2020, 14, 6599-6606.	7.3	26
24	Charge Transfer and Diffusion at the Perovskite/PCBM Interface Probed by Transient Absorption and Reflection. Journal of Physical Chemistry C, 2019, 123, 22095-22103.	1.5	26
25	Gold Nanoclusters: Bridging Gold Complexes and Plasmonic Nanoparticles in Photophysical Properties. Nanomaterials, 2019, 9, 933.	1.9	33
26	Luminescence and Electron Dynamics in Atomically Precise Nanoclusters with Eight Superatomic Electrons. Journal of the American Chemical Society, 2019, 141, 18715-18726.	6.6	59
27	Anomalous phonon relaxation in Au ₃₃₃ (SR) ₇₉ nanoparticles with nascent plasmons. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 13215-13220.	3.3	29
28	Self-assembled propylammonium cations at grain boundaries and the film surface to improve the efficiency and stability of perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 23739-23746.	5.2	41
29	A Mono-cuboctahedral Series of Gold Nanoclusters: Photoluminescence Origin, Large Enhancement, Wide Tunability, and Structureâ€“Property Correlation. Journal of the American Chemical Society, 2019, 141, 5314-5325.	6.6	149
30	Manipulating the Phase Distributions and Carrier Transfers in Hybrid Quasiâ€Twoâ€Dimensional Perovskite Films. Solar Rrl, 2019, 3, 1800359.	3.1	46
31	Three-Stage Evolution from Nonscalable to Scalable Optical Properties of Thiolate-Protected Gold Nanoclusters. Journal of the American Chemical Society, 2019, 141, 19754-19764.	6.6	110
32	Porous Halide Perovskiteâ€“Polymer Nanocomposites for Explosive Detection with a High Sensitivity. Advanced Materials Interfaces, 2019, 6, 1801686.	1.9	22
33	Three-orders-of-magnitude variation of carrier lifetimes with crystal phase of gold nanoclusters. Science, 2019, 364, 279-282.	6.0	149
34	Excited-State Behaviors of M₁Au₂₄(SR)₁₈ Nanoclusters: The Number of Valence Electrons Matters. Journal of Physical Chemistry C, 2018, 122, 13435-13442.	1.5	44
35	Sharp Transition from Nonmetallic Au₂₄₆ to Metallic Au₂₇₉ with Nascent Surface Plasmon Resonance. Journal of the American Chemical Society, 2018, 140, 5691-5695.	6.6	157
36	Au10(TBBT)10: The beginning and the end of Aun(TBBT)m nanoclusters. Chinese Journal of Chemical Physics, 2018, 31, 555-562.	0.6	7

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37	Reversible Control of Chemoselectivity in Au₃₈(SR)₂₄ Nanocluster-Catalyzed Transfer Hydrogenation of Nitrobenzaldehyde Derivatives. Journal of Physical Chemistry Letters, 2018, 9, 7173-7179.	2.1	34
38	A Correlated Series of Au/Ag Nanoclusters Revealing the Evolutionary Patterns of Asymmetric Ag Doping. Journal of the American Chemical Society, 2018, 140, 14235-14243.	6.6	63
39	Toward the Tailoring Chemistry of Metal Nanoclusters for Enhancing Functionalities. Accounts of Chemical Research, 2018, 51, 2764-2773.	7.6	163
40	Single-ligand exchange on an Auâ€“Cu bimetal nanocluster and mechanism. Nanoscale, 2018, 10, 12093-12099.	2.8	30
41	Large-Scale Synthesis, Crystal Structure, and Optical Properties of the Ag₁₄₆Br₂(SR)₈₀ Nanocluster. ACS Nano, 2018, 12, 9318-9325.	7.3	72
42	On the functional role of the cerium oxide support in the Au38(SR)24/CeO2 catalyst for CO oxidation. Catalysis Today, 2017, 280, 239-245.	2.2	39
43	Electron localization in rod-shaped triicosahedral gold nanocluster. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E4697-E4705.	3.3	56
44	Surface Engineering of Au₃₆(SR)₂₄ Nanoclusters for Photoluminescence Enhancement. Particle and Particle Systems Characterization, 2017, 34, 1600388.	1.2	39
45	Ultrafast Relaxation Dynamics of Au₃₈(SC₂H₄Ph)₂₄ Nanoclusters and Effects of Structural Isomerism. Journal of Physical Chemistry C, 2017, 121, 10686-10693.	1.5	41
46	The tetrahedral structure and luminescence properties of Bi-metallic Pt₁Ag₂₈(SR)₁₈(PPh₃)₄ nanocluster. Chemical Science, 2017, 8, 2581-2587.	3.7	105
47	On the Nonâ€Metallicity of 2.2â€...nm Au₂₄₆(SR)₈₀ Nanoclusters. Angewandte Chemie - International Edition, 2017, 56, 16257-16261.	7.2	61
48	Electronic Transitions in Highly Symmetric Au₁₃₀ Nanoclusters by Spectroelectrochemistry and Ultrafast Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 21217-21224.	1.5	15
49	Evolution of Excited-State Dynamics in Periodic Au₂₈, Au₃₆, Au₄₄, and Au₅₂ Nanoclusters. Journal of Physical Chemistry Letters, 2017, 8, 4023-4030.	2.1	77
50	On the Nonâ€Metallicity of 2.2â€...nm Au 246 (SR) 80 Nanoclusters. Angewandte Chemie, 2017, 129, 16475-16479.	7.2	16
51	Controlling Ag-doping in [Ag_xAu_{25â^'x}(SC₆H₁₁)₁₈]^{â^'} nanoclusters: cryogenic optical, electronic and electrocatalytic properties. Nanoscale, 2017, 9, 19183-19190.	6.8	43
52	Tailoring the Structure of 58-Electron Gold Nanoclusters: Au₁₀₃S₂(S-Nap)₄₁ and Its Implications. Journal of the American Chemical Society, 2017, 139, 9994-10001.	6.6	159
53	Atomically Precise Colloidal Metal Nanoclusters and Nanoparticles: Fundamentals and Opportunities. Chemical Reviews, 2016, 116, 10346-10413.	23.0	2,450
54	Silicon Nanoparticles with Surface Nitrogen: 90% Quantum Yield with Narrow Luminescence Bandwidth and the Ligand Structure Based Energy Law. ACS Nano, 2016, 10, 8385-8393.	7.3	154

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55	Evolution from the plasmon to exciton state in ligand-protected atomically precise gold nanoparticles. Nature Communications, 2016, 7, 13240.	5.8	205
56	Two Electron Reduction: From Quantum Dots to Metal Nanoclusters. Chemistry of Materials, 2016, 28, 7905-7911.	3.2	35
57	Effects of single atom doping on the ultrafast electron dynamics of M1Au24(SR)18(M = Pd, Pt) nanoclusters. Nanoscale, 2016, 8, 7163-7171.	2.8	55
58	Excitedâ€State Deactivation of Branched Phthalocyanine Compounds. ChemPhysChem, 2015, 16, 3893-3901.	1.0	9
59	Manipulating Aggregation and Molecular Orientation in Allâ€Polymer Photovoltaic Cells. Advanced Materials, 2015, 27, 6046-6054.	11.1	264
60	Ultrafast Photoinduced Electron Transfer in Green Fluorescent Protein Bearing a Genetically Encoded Electron Acceptor. Journal of the American Chemical Society, 2015, 137, 7270-7273.	6.6	25
61	Ultrafast Relaxation Dynamics of Luminescent Rod-Shaped, Silver-Doped Ag_xAu_{25â€“x} Clusters. Journal of Physical Chemistry C, 2015, 119, 18790-18797.	1.5	75
62	Solvent Dependent Excited State Behaviors of Luminescent Gold(I)â€“Silver(I) Cluster with Hypercoordinated Carbon. Journal of Physical Chemistry C, 2015, 119, 14980-14988.	1.5	30
63	Energy transfer and spectroscopic characterization of a perylenetetracarboxylic diimide (PDI) hexamer. Physical Chemistry Chemical Physics, 2015, 17, 18567-18576.	1.3	23
64	Single-molecule spectroscopy and femtosecond transient absorption studies on the excitation energy transfer process in ApcE(1â€“240) dimers. Physical Chemistry Chemical Physics, 2015, 17, 13387-13396.	1.3	16
65	Solvent-dependent intramolecular charge transfer delocalization/localization in multibranched push-pull chromophores. Journal of Chemical Physics, 2015, 143, 034309.	1.2	40
66	Crystal Structure and Optical Properties of the [Ag₆₂S₁₂(SBu^t)₃₂]²⁺ Nanocluster with a Complete Face-Centered Cubic Kernel. Journal of the American Chemical Society, 2014, 136, 15559-15565.	6.6	176
67	Ultrafast relaxation dynamics of phosphine-protected, rod-shaped Au20 clusters: interplay between solvation and surface trapping. Physical Chemistry Chemical Physics, 2014, 16, 18288-18293.	1.3	45
68	Intramolecular Charge Transfer and Solvation Dynamics of Thiolate-Protected Au₂₀(SR)₁₆ Clusters Studied by Ultrafast Measurement. Journal of Physical Chemistry A, 2013, 117, 10294-10303.	1.1	60
69	Crystal structure of a luminescent thiolated Ag nanocluster with an octahedral Ag₆⁴⁺core. Chemical Communications, 2013, 49, 300-302.	2.2	244
70	Thermally Stable Pyrochlore <scp><scp>Y₂Ti₂O₇</scp></scp>: <scp><scp>Eu³⁺</scp></scp> Orangeâ€“Red Emitting Phosphors. Journal of the American Ceramic Society, 2012, 95, 658-662.	1.9	36
71	Asymmetrically Doping a Platium Atom into a Au38 Nanocluster for Changing the Electron Configuration and Reactivity in Electrocatalysis. Angewandte Chemie, 0, , .	1.6	3