Zhikun Wu

List of Publications by Year
in descending order

112 papers	9,792 citations	41344 49 h-index	34986 98 g-index
121 all docs	121 docs citations	121 times ranked	5722 citing authors

#	Article	IF	Citations
1	Single, Self-Born RP-Au-PR Motif Boosts 19-Fold Photoluminescence Quantum Yield of Metal Nanocluster. Acta Chimica Sinica, 2022, 80, 1.	1.4	1
2	Partial Phosphorization: A Strategy to Improve Some Performance(s) of Thiolated Metal Nanoclusters Without Notable Reduction of Stability. Chemistry - A European Journal, 2022, 28, .	3.3	10
3	Metal Nanoparticles Confronted with Foreign Ligands: Mere Ligand Exchange or Further Structural Transformation?. Small, 2021, 17, e2000609.	10.0	29
4	Traceless Removal of Two Kernel Atoms in a Gold Nanocluster and Its Impact on Photoluminescence. Angewandte Chemie, 2021, 133, 8750-8754.	2.0	7
5	Traceless Removal of Two Kernel Atoms in a Gold Nanocluster and Its Impact on Photoluminescence. Angewandte Chemie - International Edition, 2021, 60, 8668-8672.	13.8	43
6	Frontispiz: Traceless Removal of Two Kernel Atoms in a Gold Nanocluster and Its Impact on Photoluminescence. Angewandte Chemie, 2021, 133, .	2.0	0
7	Compressionâ€Driven Internanocluster Reaction for Synthesis of Unconventional Gold Nanoclusters. Angewandte Chemie - International Edition, 2021, 60, 12253-12257.	13.8	8
8	Unravelling the Structure of a Mediumâ€Sized Metalloid Gold Nanocluster and its Filming Property. Angewandte Chemie, 2021, 133, 11284-11289.	2.0	2
9	Compressionâ€Driven Internanocluster Reaction for Synthesis of Unconventional Gold Nanoclusters. Angewandte Chemie, 2021, 133, 12361-12365.	2.0	0
10	Frontispiece: Traceless Removal of Two Kernel Atoms in a Gold Nanocluster and Its Impact on Photoluminescence. Angewandte Chemie - International Edition, 2021, 60, .	13.8	0
11	Unravelling the Structure of a Mediumâ€Sized Metalloid Gold Nanocluster and its Filming Property. Angewandte Chemie - International Edition, 2021, 60, 11184-11189.	13.8	14
12	Ligand Exchange: Metal Nanoparticles Confronted with Foreign Ligands: Mere Ligand Exchange or Further Structural Transformation? (Small 27/2021). Small, 2021, 17, 2170141.	10.0	0
13	Synthesizing Photoluminescent Au₂₈(SCH₂Phâ€^tBu)₂₂ Nanoclusters with Structural Features by Using a Combined Method. Angewandte Chemie, 2021, 133, 18076-18080.	2.0	5
14	Synthesizing Photoluminescent Au₂₈(SCH₂Phâ€^tBu)₂₂ Nanoclusters with Structural Features by Using a Combined Method. Angewandte Chemie - International Edition, 2021, 60, 17932-17936.	13.8	30
15	An efficient nanocluster catalyst for Sonogashira reaction. Journal of Catalysis, 2021, 401, 206-213.	6.2	12
16	Controlling ultrasmall gold nanoparticles with atomic precision. Chemical Science, 2021, 12, 2368-2380.	7.4	50
17	An Unprecedented Kernel Growth Mode and Layerâ€Numberâ€Oddevityâ€Dependent Properties in Gold Nanoclusters. Angewandte Chemie - International Edition, 2020, 59, 731-734.	13.8	33
18	An Unprecedented Kernel Growth Mode and Layerâ€Numberâ€Oddevityâ€Dependent Properties in Gold Nanoclusters. Angewandte Chemie, 2020, 132, 741-744.	2.0	2

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19	A Dual Purpose Strategy to Endow Gold Nanoclusters with Both Catalysis Activity and Water Solubility. Journal of the American Chemical Society, 2020, 142, 973-977.	13.7	109
20	Hardâ€Sphere Random Closeâ€Packed Au₄₇Cd₂(TBBT)₃₁ Nanoclusters with a Faradaic Efficiency of Up to 96â€‰% for Electrocatalytic CO₂ Reduction to CO. Angewandte Chemie, 2020, 132, 3097-3101.	2.0	33
21	Hardâ€Sphere Random Closeâ€Packed Au₄₇Cd₂(TBBT)₃₁ Nanoclusters with a Faradaic Efficiency of Up to 96â€‰% for Electrocatalytic CO₂ Reduction to CO. Angewandte Chemie - International Edition, 2020, 59, 3073-3077.	13.8	139
22	Atomically Precise Metal Nanoclusters. Synthesis Lectures on Materials and Optics, 2020, 1, 1-139.	0.2	0
23	Distance makes a difference in crystalline photoluminescence. Nature Communications, 2020, 11, 5572.	12.8	37
24	Structural Oscillation Revealed in Gold Nanoparticles. Journal of the American Chemical Society, 2020, 142, 12140-12145.	13.7	51
25	Module Replacement of Gold Nanoparticles by a Pseudo-AGR Process. Acta Chimica Sinica, 2020, 78, 407.	1.4	17
26	Fcc versus Nonâ€fcc Structural Isomerism of Gold Nanoparticles with Kernel Atom Packing Dependent Photoluminescence. Angewandte Chemie, 2019, 131, 4558-4562.	2.0	9
27	Fcc versus Nonâ€fcc Structural Isomerism of Gold Nanoparticles with Kernel Atom Packing Dependent Photoluminescence. Angewandte Chemie - International Edition, 2019, 58, 4510-4514.	13.8	59
28	Alternating Array Stacking of Ag26Au and Ag24Au Nanoclusters. Angewandte Chemie, 2019, 131, 10002-10006.	2.0	8
29	Alternating Array Stacking of Ag₂₆Au and Ag₂₄Au Nanoclusters. Angewandte Chemie - International Edition, 2019, 58, 9897-9901.	13.8	58
30	Innentitelbild: Fcc versus Nonâ€fcc Structural Isomerism of Gold Nanoparticles with Kernel Atom Packing Dependent Photoluminescence (Angew. Chem. 14/2019). Angewandte Chemie, 2019, 131, 4460-4460.	2.0	0
31	Two-Way Alloying and Dealloying of Cadmium in Metalloid Gold Clusters. Inorganic Chemistry, 2019, 58, 5388-5392.	4.0	29
32	The Synthesis of Chiral Ag 4 Pd 2 (SR) 8 by Nonreplaced Galvanic Reaction. Particle and Particle Systems Characterization, 2019, 36, 1900003.	2.3	14
33	The Fourth Alloying Mode by Way of Antiâ€Galvanic Reaction. Angewandte Chemie - International Edition, 2018, 57, 4500-4504.	13.8	81
34	Kernel Tuning and Nonuniform Influence on Optical and Electrochemical Gaps of Bimetal Nanoclusters. Journal of the American Chemical Society, 2018, 140, 3487-3490.	13.7	81
35	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
36	Is the kernelâ€“staples match a keyâ€“lock match?. Chemical Science, 2018, 9, 2437-2442.	7.4	48

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37	Surface Single-Atom Tailoring of a Gold Nanoparticle. Journal of Physical Chemistry Letters, 2018, 9, 204-208.	4.6	51
38	Frontispiz: The Fourth Alloying Mode by Way of Antiâ€Galvanic Reaction. Angewandte Chemie, 2018, 130, .	2.0	0
39	Reversible Control of Chemoselectivity in Au₃₈(SR)₂₄ Nanocluster-Catalyzed Transfer Hydrogenation of Nitrobenzaldehyde Derivatives. Journal of Physical Chemistry Letters, 2018, 9, 7173-7179.	4.6	34
40	Kernel Homology in Gold Nanoclusters. Angewandte Chemie - International Edition, 2018, 57, 15450-15454.	13.8	26
41	Kernel Homology in Gold Nanoclusters. Angewandte Chemie, 2018, 130, 15676-15680.	2.0	10
42	Unraveling the long-pursued Au ₁₄₄ structure by x-ray crystallography. Science Advances, 2018, 4, eaat7259.	10.3	267
43	Discovery, Mechanism, and Application of Antigalvanic Reaction. Accounts of Chemical Research, 2018, 51, 2774-2783.	15.6	227
44	A Silver Nanocluster Containing Interstitial Sulfur and Unprecedented Chemical Bonds. Angewandte Chemie, 2018, 130, 11443-11447.	2.0	24
45	The Fourth Alloying Mode by Way of Anti-Galvanic Reaction. Angewandte Chemie, 2018, 130, 4590-4594.	2.0	20
46	A Silver Nanocluster Containing Interstitial Sulfur and Unprecedented Chemical Bonds. Angewandte Chemie - International Edition, 2018, 57, 11273-11277.	13.8	57
47	Frontispiece: The Fourth Alloying Mode by Way of Antiâ€Galvanic Reaction. Angewandte Chemie - International Edition, 2018, 57, .	13.8	0
48	PPh_{3:} Converts Thiolated Gold Nanoparticles to [Au₂₅(PPh₃)₁₀(SR)₅Cl₂]²⁺. Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica, 2018, 34, 792-798.	4.9	24
49	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
50	Improving the Catalytic Activity of Au₂₅ Nanocluster by Peeling and Doping. Chinese Journal of Chemistry, 2017, 35, 567-571.	4.9	57
51	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
52	The fourth crystallographic closest packing unveiled in the gold nanocluster crystal. Nature Communications, 2017, 8, 14739.	12.8	151
53	Ultrafast Relaxation Dynamics of Au₃₈(SC₂H₄Ph)₂₄ Nanoclusters and Effects of Structural Isomerism. Journal of Physical Chemistry C, 2017, 121, 10686-10693.	3.1	41
54	The reactivity of phenylethanethiolated gold nanoparticles with acetic acid. Chemical Communications, 2017, 53, 11646-11649.	4.1	11

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55	The fcc structure isomerization in gold nanoclusters. Nanoscale, 2017, 9, 14809-14813.	5.6	62
56	Goldâ€Doping of Doubleâ€Crown Pd Nanoclusters. Chemistry - A European Journal, 2017, 23, 18187-18192.	3.3	29
57	Two-Way Transformation between fcc- and Nonfcc-Structured Gold Nanoclusters. Journal of Physical Chemistry Letters, 2017, 8, 5338-5343.	4.6	47
58	Quasiâ€Dualâ€Packedâ€Kerneled Au₄₉(2,4â€DMBT)₂₇ Nanoclusters and the Influence of Kernel Packing on the Electrochemical Gap. Angewandte Chemie - International Edition, 2017, 56, 12644-12648.	13.8	66
59	Quasiâ€Dualâ€Packedâ€Kerneled Au 49 (2,4â€DMBT) 27 Nanoclusters and the Influence of Kernel Packing on the Electrochemical Gap. Angewandte Chemie, 2017, 129, 12818-12822.	2.0	20
60	Chirality in Gold Nanoclusters. , 2017, , 99-119.		0
61	Structures and magnetism of mono-palladium and mono-platinum doped Au₂₅(PET)₁₈nanoclusters. Chemical Communications, 2016, 52, 9873-9876.	4.1	120
62	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
63	Doping Au₂₅ nanoparticles using ultrasmall silver or copper nanoparticles as the metal source. Journal of Materials Chemistry C, 2016, 4, 4125-4128.	5.5	24
64	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
65	Transition-sized Au₉₂nanoparticle bridging non-fcc-structured gold nanoclusters and fcc-structured gold nanocrystals. Chemical Communications, 2016, 52, 12036-12039.	4.1	54
66	Fluorescent Gold Nanoclusters with Interlocked Staples and a Fully Thiolateâ€Bound Kernel. Angewandte Chemie, 2016, 128, 11739-11743.	2.0	42
67	Fluorescent Gold Nanoclusters with Interlocked Staples and a Fully Thiolateâ€Bound Kernel. Angewandte Chemie - International Edition, 2016, 55, 11567-11571.	13.8	159
68	Bimetal Doping in Nanoclusters: Synergistic or Counteractive?. Chemistry of Materials, 2016, 28, 8240-8247.	6.7	90
69	Sizeâ€Dependent Cytotoxicity of Thiolated Silver Nanoparticles Rapidly Probed by using Differential Pulse Voltammetry. ChemElectroChem, 2016, 3, 1197-1200.	3.4	3
70	Correction: One-pot one-cluster synthesis of fluorescent and bio-compatible Ag14nanoclusters for cancer cell imaging. Nanoscale, 2016, 8, 13078-13078.	5.6	2
71	Peeling the Coreâ€"Shell Au₂₅ Nanocluster by Reverse Ligand-Exchange. Chemistry of Materials, 2016, 28, 1022-1025.	6.7	60
72	Synthesis and Properties Evolution of a Family of Tiara-like Phenylethanethiolated Palladium Nanoclusters. Scientific Reports, 2015, 5, 16628.	3.3	32

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73	Adding Two Active Silver Atoms on Au₂₅ Nanoparticle. Nano Letters, 2015, 15, 1281-1287.	9.1	171
74	Cu²⁺ induced formation of Au₄₄(SC₂H₄Ph)₃₂ and its high catalytic activity for the reduction of 4-nitrophenol at low temperature. Chemical Communications, 2015, 51, 4433-4436.	4.1	66
75	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
76	Ion-precursor and ion-dose dependent anti-galvanic reduction. Chemical Communications, 2015, 51, 11773-11776.	4.1	35
77	Fast, high-yield synthesis of amphiphilic Ag nanoclusters and the sensing of Hg²⁺ in environmental samples. Nanoscale, 2015, 7, 10013-10020.	5.6	63
78	Structural isomerism in gold nanoparticles revealed by X-ray crystallography. Nature Communications, 2015, 6, 8667.	12.8	258
79	One-pot one-cluster synthesis of fluorescent and bio-compatible Ag₁₄ nanoclusters for cancer cell imaging. Nanoscale, 2015, 7, 18464-18470.	5.6	68
80	Synthesis of fluorescent phenylethanethiolated gold nanoclusters via pseudo-AGR method. Nanoscale, 2015, 7, 16200-16203.	5.6	41
81	Mono-cadmium vs Mono-mercury Doping of Au₂₅ Nanoclusters. Journal of the American Chemical Society, 2015, 137, 15350-15353.	13.7	211
82	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
83	Reduction-resistant and reduction-catalytic double-crown nickel nanoclusters. Nanoscale, 2014, 6, 14195-14199.	5.6	33
84	Catalyzed formation of Î±,Î²-unsaturated ketones or aldehydes from propargylic acetates by a recoverable and recyclable nanocluster catalyst. Nanoscale, 2014, 6, 5714.	5.6	30
85	Exclusive synthesis of Au₁₁(PPh₃)₈Br₃ against the Cl Analogue and the Electronic Interaction between Cluster Metal Core and Surface Ligands. Chemistry - A European Journal, 2013, 19, 12259-12263.	3.3	15
86	One-step fabrication of high performance micro/nanostructured Fe3S4â€“C magnetic adsorbent with easy recovery and regeneration properties. CrystEngComm, 2013, 15, 2956.	2.6	40
87	Sensitivity of Structural and Electronic Properties of Goldâ€“Thiolate Nanoclusters to the Atomic Composition: A Comparative X-ray Study of Au₁₉(SR)₁₃ and Au₂₅(SR)₁₈. Journal of Physical Chemistry C, 2012, 116, 25137-25142.	3.1	34
88	Quantum Sized Gold Nanoclusters with Atomic Precision. Accounts of Chemical Research, 2012, 45, 1470-1479.	15.6	837
89	Au25(SG)18 as a fluorescent iodide sensor. Nanoscale, 2012, 4, 4087.	5.6	89
90	Ag Nanoparticle Decorated Nanoporous ZnO Microrods and Their Enhanced Photocatalytic Activities. ACS Applied Materials & Interfaces, 2012, 4, 6030-6037.	8.0	292

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91	Wellâ€Defined Nanoclusters as Fluorescent Nanosensors: A Case Study on Au₂₅(SG)₁₈. Small, 2012, 8, 2028-2035.	10.0	185
92	Fluorescent Probes: Well-Defined Nanoclusters as Fluorescent Nanosensors: A Case Study on Au25(SG)18 (Small 13/2012). Small, 2012, 8, 2027-2027.	10.0	6
93	Antiâ€Galvanic Reduction of Thiolateâ€Protected Gold and Silver Nanoparticles. Angewandte Chemie - International Edition, 2012, 51, 2934-2938.	13.8	195
94	Kinetic Control and Thermodynamic Selection in the Synthesis of Atomically Precise Gold Nanoclusters. Journal of the American Chemical Society, 2011, 133, 9670-9673.	13.7	209
95	Wavelength Dependence of the Fluorescence Quenching Efficiency of Nearby Dyes by Gold Nanoclusters and Nanoparticles: The Roles of Spectral Overlap and Particle Size. Journal of Physical Chemistry C, 2011, 115, 20105-20112.	3.1	61
96	Chiral Au₂₅ Nanospheres and Nanorods: Synthesis and Insight into the Origin of Chirality. Nano Letters, 2011, 11, 3963-3969.	9.1	167
97	Oneâ€Pot Synthesis of Au₂₅(SG)₁₈ 2â€•and 4â€nm Gold Nanoparticles and Comparison of Their Sizeâ€Dependent Properties. Advanced Functional Materials, 2011, 21, 177-183.	14.9	127
98	The Observation of Gaseous Gold Superions Induced from Monodispersed Nanoparticles. Chemistry - A European Journal, 2011, 17, 13966-13970.	3.3	22
99	Exploring stereoselectivity of Au25 nanoparticle catalyst for hydrogenation of cyclic ketone. Journal of Catalysis, 2010, 271, 155-160.	6.2	95
100	Size Focusing: A Methodology for Synthesizing Atomically Precise Gold Nanoclusters. Journal of Physical Chemistry Letters, 2010, 1, 2903-2910.	4.6	402
101	On the Ligandâ€™s Role in the Fluorescence of Gold Nanoclusters. Nano Letters, 2010, 10, 2568-2573.	9.1	1,179
102	Sequential Observation of Ag_{<i>n</i>}S₄^{âˆ’} (1 â‰ <i>n</i> â‰ 7) Gas Phase Clusters in MS/MS and Prediction of Their Structures. Journal of Physical Chemistry Letters, 2010, 1, 1423-1427.	4.6	35
103	Probing the Structure and Charge State of Glutathione-Capped Au₂₅(SG)₁₈ Clusters by NMR and Mass Spectrometry. Journal of the American Chemical Society, 2009, 131, 6535-6542.	13.7	271
104	Stability of the Two Auâˆ’S Binding Modes in Au₂₅(SG)₁₈ Nanoclusters Probed by NMR and Optical Spectroscopy. ACS Nano, 2009, 3, 2036-2042.	14.6	118
105	High Yield, Large Scale Synthesis of Thiolate-Protected Ag₇ Clusters. Journal of the American Chemical Society, 2009, 131, 16672-16674.	13.7	274
106	One-pot synthesis of atomically monodisperse, thiol-functionalized Au₂₅nanoclusters. Journal of Materials Chemistry, 2009, 19, 622-626.	6.7	334
107	Morphological evolution of nanostructures: From molecules to metallosupramolecules to nanoscale structures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2008, 329, 44-50.	4.7	1
108	Ratiometric Zn2+ Sensor and Strategy for Hg2+ Selective Recognition by Central Metal Ion Replacement. Inorganic Chemistry, 2006, 45, 3140-3142.	4.0	125

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109	Novel fluorescent sensor for Zn(II) based on bis(pyrrol-2-yl-methyleneamine) ligands. Sensors and Actuators B: Chemical, 2004, 99, 511-515.	7.8	39
110	One-pot synthesis and self-assembly of double stranded helical metal complexes. Inorganic Chemistry Communication, 2004, 7, 249-252.	3.9	19
111	Title is missing!. Angewandte Chemie, 2003, 115, 3393-3396.	2.0	4
112	Double-Stranded Helicates, Triangles, and Squares Formed by the Self-Assembly of Pyrrol-2-ylmethyleneamines and ZnII Ions. Angewandte Chemie - International Edition, 2003, 42, 3271-3274.	13.8	79