Huifeng Qian

List of Publications by Year
in descending order

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73 papers	12,417 citations	26567 56 h-index	74018 75 g-index
78 all docs	78 docs citations	78 times ranked	8429 citing authors

#	Article	IF	Citations
1	Total Structure Determination of Thiolate-Protected Au₃₈ Nanoparticles. Journal of the American Chemical Society, 2010, 132, 8280-8281.	6.6	974
2	Quantum Sized Gold Nanoclusters with Atomic Precision. Accounts of Chemical Research, 2012, 45, 1470-1479.	7.6	837
3	Total Structure and Electronic Properties of the Gold Nanocrystal Au₃₆(SR)₂₄. Angewandte Chemie - International Edition, 2012, 51, 13114-13118.	7.2	519
4	Atomically Precise Au₂₅(SR)₁₈ Nanoparticles as Catalysts for the Selective Hydrogenation of Î±,Î²â€Unsaturated Ketones and Aldehydes. Angewandte Chemie - International Edition, 2010, 49, 1295-1298.	7.2	452
5	Monoplatinum Doping of Gold Nanoclusters and Catalytic Application. Journal of the American Chemical Society, 2012, 134, 16159-16162.	6.6	444
6	Reversible Switching of Magnetism in Thiolate-Protected Au₂₅ Superatoms. Journal of the American Chemical Society, 2009, 131, 2490-2492.	6.6	414
7	Size Focusing: A Methodology for Synthesizing Atomically Precise Gold Nanoclusters. Journal of Physical Chemistry Letters, 2010, 1, 2903-2910.	2.1	402
8	Size-Focusing Synthesis, Optical and Electrochemical Properties of Monodisperse Au₃₈(SC₂H₄Ph)₂₄ Nanoclusters. ACS Nano, 2009, 3, 3795-3803.	7.3	378
9	Controlling Nanoparticles with Atomic Precision: The Case of Au₁₄₄(SCH₂CH₂Ph)₆₀. Nano Letters, 2009, 9, 4083-4087.	4.5	368
10	Experimental and Computational Investigation of Au₂₅ Clusters and CO₂: A Unique Interaction and Enhanced Electrocatalytic Activity. Journal of the American Chemical Society, 2012, 134, 10237-10243.	6.6	361
11	Evolution of Nonlinear Optical Properties: From Gold Atomic Clusters to Plasmonic Nanocrystals. Nano Letters, 2012, 12, 4661-4667.	4.5	293
12	CO Oxidation Catalyzed by Oxide-Supported Au₂₅(SR)₁₈ Nanoclusters and Identification of Perimeter Sites as Active Centers. ACS Nano, 2012, 6, 6014-6022.	7.3	249
13	Atomically precise gold nanocrystal molecules with surface plasmon resonance. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 696-700.	3.3	247
14	Rapid synthesis of highly luminescent CdTe nanocrystals in the aqueous phase by microwave irradiation with controllable temperature. Chemical Communications, 2005, , 528.	2.2	246
15	Thiolateâ€Protected Au_n Nanoclusters as Catalysts for Selective Oxidation and Hydrogenation Processes. Advanced Materials, 2010, 22, 1915-1920.	11.1	228
16	A Resonance Energy Transfer between Chemiluminescent Donors and Luminescent Quantum-Dots as Acceptors (CRET). Angewandte Chemie - International Edition, 2006, 45, 5140-5143.	7.2	224
17	Facile One-Pot Synthesis of Luminescent, Water-Soluble, and Biocompatible Glutathione-Coated CdTe Nanocrystals. Small, 2006, 2, 747-751.	5.2	204
18	Determination of nanoparticle size distribution together with density or molecular weight by 2D analytical ultracentrifugation. Nature Communications, 2011, 2, 335.	5.8	201

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19	Thiolate-Protected Au₂₀ Clusters with a Large Energy Gap of 2.1 eV. Journal of the American Chemical Society, 2009, 131, 7220-7221.	6.6	188
20	Catalysis opportunities of atomically precise gold nanoclusters. Journal of Materials Chemistry, 2011, 21, 6793.	6.7	188
21	Insights into Nitrate Reduction over Indium-Decorated Palladium Nanoparticle Catalysts. ACS Catalysis, 2018, 8, 503-515.	5.5	188
22	Ambient Synthesis of Au₁₄₄(SR)₆₀ Nanoclusters in Methanol. Chemistry of Materials, 2011, 23, 2209-2217.	3.2	187
23	Wellâ€Defined Nanoclusters as Fluorescent Nanosensors: A Case Study on Au₂₅(SG)₁₈. Small, 2012, 8, 2028-2035.	5.2	185
24	Significant enhancement of the quantum yield of CdTe nanocrystals synthesized in aqueous phase by controlling the pH and concentrations of precursor solutions. Journal of Luminescence, 2006, 116, 59-66.	1.5	183
25	Facile, Large-Scale Synthesis of Dodecanethiol-Stabilized Au₃₈ Clusters. Journal of Physical Chemistry A, 2009, 113, 4281-4284.	1.1	167
26	Chiral Au₂₅ Nanospheres and Nanorods: Synthesis and Insight into the Origin of Chirality. Nano Letters, 2011, 11, 3963-3969.	4.5	167
27	Study of Fluorescence Quenching and Dialysis Process of CdTe Quantum Dots, Using Ensemble Techniques and Fluorescence Correlation Spectroscopy. Journal of Physical Chemistry B, 2006, 110, 11069-11075.	1.2	166
28	Microwave-Assisted Aqueous Synthesis:Â A Rapid Approach to Prepare Highly Luminescent ZnSe(S) Alloyed Quantum Dots. Journal of Physical Chemistry B, 2006, 110, 9034-9040.	1.2	165
29	Temperature-Dependent Optical Absorption Properties of Monolayer-Protected Au₂₅ and Au₃₈ Clusters. Journal of Physical Chemistry Letters, 2011, 2, 2752-2758.	2.1	150
30	An Atomicâ€Level Strategy for Unraveling Gold Nanocatalysis from the Perspective of Au_n(SR)_m Nanoclusters. Chemistry - A European Journal, 2010, 16, 11455-11462.	1.7	146
31	Quantumâ€Sized Gold Nanoclusters: Bridging the Gap between Organometallics and Nanocrystals. Chemistry - A European Journal, 2011, 17, 6584-6593.	1.7	141
32	Isolation of Ubiquitous Au₄₀(SR)₂₄ Clusters from the 8 kDa Gold Clusters. Journal of the American Chemical Society, 2010, 132, 4583-4585.	6.6	134
33	Ultrafast Relaxation Dynamics of [Au₂₅(SR)₁₈]^q Nanoclusters: Effects of Charge State. Journal of Physical Chemistry C, 2010, 114, 19935-19940.	1.5	133
34	High-Quality and Water-Soluble Near-Infrared Photoluminescent CdHgTe/CdS Quantum Dots Prepared by Adjusting Size and Composition. Journal of Physical Chemistry C, 2007, 111, 16852-16857.	1.5	132
35	A Quantum Alloy: The Ligand-Protected Au_{25â€“x}Ag_x(SR)₁₈ Cluster. Journal of Physical Chemistry C, 2013, 117, 7914-7923.	1.5	124
36	Highly luminescent CdTe quantum dots prepared in aqueous phase as an alternative fluorescent probe for cell imaging. Talanta, 2006, 70, 397-402.	2.9	117

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37	Thiolate-Protected Au₂₄(SC₂H₄Ph)₂₀ Nanoclusters: Superatoms or Not?. Journal of Physical Chemistry Letters, 2010, 1, 1003-1007.	2.1	114
38	The Structure and Bonding of Au₂₅(SR)₁₈ Nanoclusters from EXAFS: The Interplay of Metallic and Molecular Behavior. Journal of Physical Chemistry C, 2011, 115, 15282-15287.	1.5	114
39	Crystal Structures of Au₂ Complex and Au₂₅ Nanocluster and Mechanistic Insight into the Conversion of Polydisperse Nanoparticles into Monodisperse Au₂₅ Nanoclusters. Inorganic Chemistry, 2011, 50, 10735-10739.	1.9	106
40	One-step and rapid synthesis of high quality alloyed quantum dots (CdSeâ€“CdS) in aqueous phase by microwave irradiation with controllable temperature. Materials Research Bulletin, 2005, 40, 1726-1736.	2.7	105
41	Dopant Location, Local Structure, and Electronic Properties of Au₂₄Pt(SR)₁₈ Nanoclusters. Journal of Physical Chemistry C, 2012, 116, 26932-26937.	1.5	105
42	Gold nanocluster-catalyzed selective oxidation of sulfide to sulfoxide. Nanoscale, 2012, 4, 6714.	2.8	101
43	Conversion of Polydisperse Au Nanoparticles into Monodisperse Au₂₅ Nanorods and Nanospheres. Journal of Physical Chemistry C, 2009, 113, 17599-17603.	1.5	97
44	Exploring stereoselectivity of Au25 nanoparticle catalyst for hydrogenation of cyclic ketone. Journal of Catalysis, 2010, 271, 155-160.	3.1	95
45	Chirality in Gold Nanoclusters Probed by NMR Spectroscopy. ACS Nano, 2011, 5, 8935-8942.	7.3	93
46	Ultrafast Relaxation Dynamics of Rod-Shaped 25-Atom Gold Nanoclusters. Journal of Physical Chemistry C, 2011, 115, 6200-6207.	1.5	89
47	Site-Specific and Size-Dependent Bonding of Compositionally Precise Goldâ^'Thiolate Nanoparticles from X-ray Spectroscopy. Journal of Physical Chemistry Letters, 2010, 1, 1821-1825.	2.1	86
48	CeO2-supported Au38(SR)24 nanocluster catalysts for CO oxidation: a comparison of ligand-on and -off catalysts. Nanoscale, 2013, 5, 5912.	2.8	86
49	Multiamino-functionalized carbon nanotubes and their applications in loading quantum dots and magnetic nanoparticles. Journal of Materials Chemistry, 2006, 16, 1852.	6.7	75
50	Highly efficient size separation of CdTe quantum dots by capillary gel electrophoresis using polymer solution as sieving medium. Electrophoresis, 2006, 27, 1341-1346.	1.3	73
51	Atomicâ€Level Alloying and Deâ€alloying in Doped Gold Nanoparticles. Chemistry - A European Journal, 2013, 19, 4238-4243.	1.7	70
52	Single Nonblinking CdTe Quantum Dots Synthesized in Aqueous Thiopropionic Acid. Angewandte Chemie - International Edition, 2006, 45, 7588-7591.	7.2	61
53	Solution-Phase Structure and Bonding of Au₃₈(SR)₂₄ Nanoclusters from X-ray Absorption Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 65-69.	1.5	56
54	Chiral 38â€Goldâ€Atom Nanoclusters: Synthesis and Chiroptical Properties. Small, 2014, 10, 1008-1014.	5.2	56

#	Article	IF	Citations
55	Synthesis and electrospray mass spectrometry determination of thiolate-protected Au55(SR)31 nanoclusters. Chemical Communications, 2011, 47, 11462.	2.2	55
56	Supporting palladium metal on gold nanoparticles improves its catalysis for nitrite reduction. Nanoscale, 2014, 6, 358-364.	2.8	55
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	Gold nanoparticles for cleaning contaminated water. Journal of Chemical Technology and Biotechnology, 2013, 88, 735-741.	1.6	54
59	Sizes of water-soluble luminescent quantum dots measured by fluorescence correlation spectroscopy. Analytica Chimica Acta, 2005, 546, 46-51.	2.6	53
60	Controlled growth of molecularly pure Au25(SR)18 and Au38(SR)24 nanoclusters from the same polydispersed crude product. Science China Chemistry, 2012, 55, 2359-2365.	4.2	52
61	Unexpected reactivity of Au25(SCH2CH2Ph)18 nanoclusters with salts. Nanoscale, 2011, 3, 1703.	2.8	45
62	Studies on Interaction of CdTe Quantum Dots with Bovine Serum Albumin Using Fluorescence Correlation Spectroscopy. Journal of Fluorescence, 2009, 19, 151-157.	1.3	42
63	CdTe@Co(OH)2(coreâ€“shell) nanoparticles: aqueous synthesis and characterization. Chemical Communications, 2005, , 4083.	2.2	38
64	Coupling Fluorescence Correlation Spectroscopy with Microchip Electrophoresis to Determine the Effective Surface Charge of Water-Soluble Quantum Dots. Small, 2006, 2, 534-538.	5.2	36
65	Comparison of the Catalytic Properties of 25-Atom Gold Nanospheres and Nanorods. Chinese Journal of Catalysis, 2011, 32, 1149-1155.	6.9	35
66	Self-assembly of CdTe nanocrystals at the water/oil interface by amphiphilic hyperbranched polymers. Nanotechnology, 2008, 19, 445609.	1.3	23
67	On-Line Investigation of Laser-Induced Aggregation and Photoactivation of CdTe Quantum Dots by Fluorescence Correlation Spectroscopy. Journal of Physical Chemistry C, 2007, 111, 7918-7923.	1.5	22
68	Two distinctive energy migration pathways of monolayer molecules on metal nanoparticle surfaces. Nature Communications, 2016, 7, 10749.	5.8	18
69	Hydrogen-generating behavior of Pd-decorated gold nanoparticles via formic acid decomposition. Catalysis Today, 2019, 330, 24-31.	2.2	18
70	Fluorescent Probes: Well-Defined Nanoclusters as Fluorescent Nanosensors: A Case Study on Au25(SG)18 (Small 13/2012). Small, 2012, 8, 2027-2027.	5.2	6
71	Thiolate-protected Au₃₈(SR)₂₄ nanocluster: size-focusing synthesis, structure determination, intrinsic chirality, and beyond. Pure and Applied Chemistry, 2014, 86, 27-37.	0.9	6
72	Catalysis by Atomically Precise Gold Nanoclusters. , 2015, , 239-262.		6

#	Article	IF	Citations
73	Atomically engineered gold nanoclusters for optical limiting. SPIE Newsroom, 0, , .	0.1	0