

Christopher J Ackerson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/891782/publications.pdf>

Version: 2024-02-01

60
papers

6,938
citations

172457

29
h-index

133252

59
g-index

61
all docs

61
docs citations

61
times ranked

6071
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure of a Thiol Monolayer-Protected Gold Nanoparticle at 1.1 Å Resolution. <i>Science</i> , 2007, 318, 430-433.	12.6	2,383
2	A unified view of ligand-protected gold clusters as superatom complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9157-9162.	7.1	1,472
3	Inhibition of HIV Fusion with Multivalent Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2008, 130, 6896-6897.	13.7	335
4	Structural and Theoretical Basis for Ligand Exchange on Thiolate Monolayer Protected Gold Nanoclusters. <i>Journal of the American Chemical Society</i> , 2012, 134, 13316-13322.	13.7	199
5	Polymorphism in magic-sized Au ₁₄₄ (SR) ₆₀ clusters. <i>Nature Communications</i> , 2016, 7, 11859.	12.8	167
6	Rigid, Specific, and Discrete Gold Nanoparticle/Antibody Conjugates. <i>Journal of the American Chemical Society</i> , 2006, 128, 2635-2640.	13.7	158
7	Thiolate Ligands for Synthesis of Water-Soluble Gold Clusters. <i>Journal of the American Chemical Society</i> , 2005, 127, 6550-6551.	13.7	153
8	Jahn-Teller effects in Au ₂₅ (SR) ₁₈ . <i>Chemical Science</i> , 2016, 7, 1882-1890.	7.4	149
9	Chiral Phase Transfer and Enantioenrichment of Thiolate-Protected Au ₁₀₂ Clusters. <i>Journal of the American Chemical Society</i> , 2014, 136, 4129-4132.	13.7	125
10	Crystal Structure of the PdAu ₂₄ (SR) ₁₈ ⁰ Superatom. <i>Inorganic Chemistry</i> , 2016, 55, 999-1001.	4.0	114
11	Synthesis and Bioconjugation of 2 and 3 nm-Diameter Gold Nanoparticles. <i>Bioconjugate Chemistry</i> , 2010, 21, 214-218.	3.6	107
12	Superatom Electron Configuration Predicts Thermal Stability of Au ₂₅ (SR) ₁₈ Nanoclusters. <i>Journal of the American Chemical Society</i> , 2012, 134, 16937-16940.	13.7	98
13	Defined DNA/nanoparticle conjugates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13383-13385.	7.1	96
14	Optical Properties and Electronic Energy Relaxation of Metallic Au ₁₄₄ (SR) ₆₀ Nanoclusters. <i>Journal of the American Chemical Society</i> , 2013, 135, 18222-18228.	13.7	92
15	Conformation and dynamics of the ligand shell of a water-soluble Au ₁₀₂ nanoparticle. <i>Nature Communications</i> , 2016, 7, 10401.	12.8	91
16	Structural Basis for Ligand Exchange on Au ₂₅ (SR) ₁₈ . <i>Inorganic Chemistry</i> , 2014, 53, 6500-6502.	4.0	85
17	Superatom Paramagnetism Enables Gold Nanocluster Heating in Applied Radiofrequency Fields. <i>ACS Nano</i> , 2013, 7, 2610-2616.	14.6	78
18	Removal of colloidal biogenic selenium from wastewater. <i>Chemosphere</i> , 2015, 125, 130-138.	8.2	73

#	ARTICLE	IF	CITATIONS
19	Ligand symmetry-equivalence on thiolate protected gold nanoclusters determined by NMR spectroscopy. <i>Nanoscale</i> , 2012, 4, 4099.	5.6	72
20	Site-Specific Biomolecule Labeling with Gold Clusters. <i>Methods in Enzymology</i> , 2010, 481, 195-230.	1.0	70
21	Synthesis, Characterization, and Direct Intracellular Imaging of Ultrasmall and Uniform Glutathione-Coated Gold Nanoparticles. <i>Small</i> , 2012, 8, 2277-2286.	10.0	67
22	Structure-activity relationships for biodistribution, pharmacokinetics, and excretion of atomically precise nanoclusters in a murine model. <i>Nanoscale</i> , 2013, 5, 10525.	5.6	58
23	Regiochemistry of Thiolate for Selenolate Ligand Exchange on Gold Clusters. <i>Journal of the American Chemical Society</i> , 2019, 141, 309-314.	13.7	57
24	Nanometals: Identifying the Onset of Metallic Relaxation Dynamics in Monolayer-Protected Gold Clusters Using Femtosecond Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6307-6313.	3.1	54
25	Size-Focusing Synthesis of Gold Nanoclusters with <i>p</i> -Mercaptobenzoic Acid. <i>Journal of Physical Chemistry A</i> , 2014, 118, 8124-8128.	2.5	44
26	Radicals Are Required for Thiol Etching of Gold Particles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9249-9252.	13.8	40
27	Cluster-mining: an approach for determining core structures of metallic nanoparticles from atomic pair distribution function data. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2020, 76, 24-31.	0.1	34
28	Dynamic Diglyme-Mediated Self-Assembly of Gold Nanoclusters. <i>ACS Nano</i> , 2015, 9, 11690-11698.	14.6	33
29	Progress toward clonable inorganic nanoparticles. <i>Nanoscale</i> , 2015, 7, 17320-17327.	5.6	33
30	Unusual Reactivity of a Silver Mineralizing Peptide. <i>ACS Nano</i> , 2010, 4, 3883-3888.	14.6	29
31	Oxidative decomposition of Au ₂₅ (SR) ₁₈ clusters in a catalytic context. <i>Chemical Communications</i> , 2015, 51, 1240-1243.	4.1	28
32	Gold nanoparticle capture within protein crystal scaffolds. <i>Nanoscale</i> , 2016, 8, 12693-12696.	5.6	23
33	Determination of Rigidity of Protein Bound Au ₁₄₄ Clusters by Electron Cryomicroscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 16037-16042.	3.1	21
34	Preparation of Gold Nanocluster Bioconjugates for Electron Microscopy. <i>Methods in Molecular Biology</i> , 2013, 950, 293-311.	0.9	21
35	Zwitterionic glutathione monoethyl ester as a new capping ligand for ultrasmall gold nanoparticles. <i>RSC Advances</i> , 2016, 6, 46350-46355.	3.6	20
36	Acetylide-for-thiolate and thiolate-for-acetylide exchange on gold nanoclusters. <i>Nanoscale</i> , 2020, 12, 6239-6242.	5.6	20

#	ARTICLE	IF	CITATIONS
37	Metal oxide formation by serine and cysteine proteases. <i>Journal of Materials Chemistry</i> , 2009, 19, 8299.	6.7	19
38	Sensitive, Selective Analysis of Selenium Oxoanions Using Microchip Electrophoresis with Contact Conductivity Detection. <i>Analytical Chemistry</i> , 2014, 86, 8425-8432.	6.5	19
39	Combinatorial Discovery of Cosolvent Systems for Production of Narrow Dispersion Thiolate-Protected Gold Nanoparticles. <i>ACS Combinatorial Science</i> , 2015, 17, 11-18.	3.8	18
40	Composition-dependent electronic energy relaxation dynamics of metal domains as revealed by bimetallic Au ₁₄₄ Ag _x (SC ₈ H ₉) ₆₀ monolayer-protected clusters. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14471-14477.	2.8	18
41	In vitro selection of RNA sequences capable of mediating the formation of iron oxide nanoparticles. <i>Journal of Materials Chemistry</i> , 2009, 19, 8320.	6.7	14
42	Superatom Paramagnetism in Au ₁₀₂ (SR) ₄₄ ¹⁶ O/1+2+ Oxidation States. <i>Inorganic Chemistry</i> , 2020, 59, 3509-3512.	4.0	14
43	Low-Temperature Magnetism in Nanoscale Gold Revealed through Variable-Temperature Magnetic Circular Dichroism Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 189-193.	4.6	13
44	Size-Scalable Near-Infrared Photoluminescence in Gold Monolayer Protected Clusters. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 7531-7536.	4.6	13
45	Adsorption-Coupled Diffusion of Gold Nanoclusters within a Large-Pore Protein Crystal Scaffold. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7652-7659.	2.6	12
46	Superatom spin-state dynamics of structurally precise metal monolayer-protected clusters (MPCs). <i>Journal of Chemical Physics</i> , 2019, 150, 101102.	3.0	12
47	Oxygen's Role in Aqueous Gold Cluster Synthesis. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28288-28294.	3.1	11
48	Electrophoretic Mechanism of Au ₂₅ (SR) ₁₈ Heating in Radiofrequency Fields. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1516-1521.	4.6	11
49	Cooperativity between two selected RNA Pdases in the synthesis of Pd nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 8394.	6.7	10
50	Relaxation Dynamics of Electronically Coupled Au ₂₀ (SC ₈ H ₉) ₁₅ -glyme-Au ₂₀ (SC ₈ H ₉) ₁₅ Monolayer-Protected Cluster Dimers. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19251-19258.	3.1	8
51	The Influence of Pd-Atom Substitution on Au ₂₅ (SC ₈ H ₉) ₁₈ Cluster Photoluminescence. <i>Journal of Physical Chemistry C</i> , 2021, 125, 7267-7275.	3.1	8
52	Metalloid Reductase of <i>Pseudomonas moravenis</i> Stanleyae Conveys Nanoparticle Mediated Metalloid Tolerance. <i>ACS Omega</i> , 2018, 3, 14902-14909.	3.5	7
53	Observable but Not Isolable: The RhAu ₂₄ (PET) ₁₈ ¹⁺ Nanocluster. <i>Small</i> , 2021, 17, e2004078.	10.0	7
54	Identification of a TeO ₃ ²⁻ reductase/mycothione reductase from <i>Rhodococcus erythropolis</i> PR4. <i>FEMS Microbiology Ecology</i> , 2020, 97, .	2.7	6

#	ARTICLE	IF	CITATIONS
55	Structure Determination by Single Crystal X-ray Crystallography. <i>Frontiers of Nanoscience</i> , 2015, , 103-125.	0.6	5
56	Enzyme-Catalyzed in Situ Synthesis of Temporally and Spatially Distinct CdSe Quantum Dots in Biological Backgrounds. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27187-27195.	3.1	4
57	Metalloid Reductase Activity Modified by a Fused Se ⁰ Binding Peptide. <i>ACS Chemical Biology</i> , 2020, 15, 1987-1995.	3.4	4
58	Editorial: Microbial Biominerals: Toward New Functions and Resource Recovery. <i>Frontiers in Microbiology</i> , 2021, 12, 796374.	3.5	4
59	An ultrastable thiolate/diglyme ligated cluster: Au ₂₀ (PET) ₁₅ (DG) ₂ . <i>Nanoscale</i> , 2022, 14, 9134-9141.	5.6	2
60	Self-assembled three-dimensional deoxyribonucleic acid (DNA) crystals. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2018, 74, a253-a253.	0.1	0