

Hannu HÄÄkkinen

List of Publications by Year in descending order

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230
papers

24,207
citations

10956

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7496

151
g-index

240
all docs

240
docs citations

240
times ranked

13748
citing authors

#	ARTICLE	IF	CITATIONS
1	A unified view of ligand-protected gold clusters as superatom complexes. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9157-9162.	3.3	1,472
2	The gold-sulfur interface at the nanoscale. Nature Chemistry, 2012, 4, 443-455.	6.6	1,418
3	Charging Effects on Bonding and Catalyzed Oxidation of CO on Au ₈ Clusters on MgO. Science, 2005, 307, 403-407.	6.0	1,358
4	On the Structure of Thiolate-Protected Au ₂₅ . Journal of the American Chemical Society, 2008, 130, 3756-3757.	6.6	682
5	All-thiol-stabilized Ag ₄₄ and Au ₁₂ Ag ₃₂ nanoparticles with single-crystal structures. Nature Communications, 2013, 4, 2422.	5.8	675
6	Self-Passivating Edge Reconstructions of Graphene. Physical Review Letters, 2008, 101, 115502.	2.9	674
7	Atomic and electronic structure of gold clusters: understanding flakes, cages and superatoms from simple concepts. Chemical Society Reviews, 2008, 37, 1847.	18.7	639
8	Bonding in Cu, Ag, and Au Clusters: Relativistic Effects, Trends, and Surprises. Physical Review Letters, 2002, 89, 033401.	2.9	611
9	On the Electronic and Atomic Structures of Small Au _N - (N = 4~14) Clusters: A Photoelectron Spectroscopy and Density-Functional Study. Journal of Physical Chemistry A, 2003, 107, 6168-6175.	1.1	598
10	Structural, Electronic, and Impurity-Doping Effects in Nanoscale Chemistry: Supported Gold Nanoclusters. Angewandte Chemie - International Edition, 2003, 42, 1297-1300.	7.2	547
11	Gold clusters(Au _N , 2<N<-10)and their anions. Physical Review B, 2000, 62, R2287-R2290.	1.1	454
12	Divide and Protect: Capping Gold Nanoclusters with Molecular Gold-Thiolate Rings. Journal of Physical Chemistry B, 2006, 110, 9927-9931.	1.2	405
13	Chirality and Electronic Structure of the Thiolate-Protected Au ₃₈ Nanocluster. Journal of the American Chemical Society, 2010, 132, 8210-8218.	6.6	401
14	Structure and Bonding in the Ubiquitous Icosahedral Metallic Gold Cluster Au ₁₄₄ (SR) ₆₀ . Journal of Physical Chemistry C, 2009, 113, 5035-5038.	1.5	393
15	Catalytic CO Oxidation by Free Au ₂ : Experiment and Theory. Journal of the American Chemical Society, 2003, 125, 10437-10445.	6.6	386
16	Interaction of O ₂ with Gold Clusters: Molecular and Dissociative Adsorption. Journal of Physical Chemistry A, 2003, 107, 4066-4071.	1.1	349
17	N-heterocyclic carbene-functionalized magic-number gold nanoclusters. Nature Chemistry, 2019, 11, 419-425.	6.6	333
18	A Critical Size for Emergence of Nonbulk Electronic and Geometric Structures in Dodecanethiolate-Protected Au Clusters. Journal of the American Chemical Society, 2015, 137, 1206-1212.	6.6	322

#	ARTICLE	IF	CITATIONS
19	Atomically Precise Alkynyl-Protected Metal Nanoclusters as a Model Catalyst: Observation of Promoting Effect of Surface Ligands on Catalysis by Metal Nanoparticles. <i>Journal of the American Chemical Society</i> , 2016, 138, 3278-3281.	6.6	297
20	Quantum size effects in ambient CO oxidation catalysed by ligand-protected gold clusters. <i>Nature Chemistry</i> , 2010, 2, 329-334.	6.6	295
21	Photoelectron spectra of aluminum cluster anions: Temperature effects and ab initio simulations. <i>Physical Review B</i> , 1999, 60, R11297-R11300.	1.1	289
22	Evidence for graphene edges beyond zigzag and armchair. <i>Physical Review B</i> , 2009, 80, .	1.1	274
23	Single Crystal XRD Structure and Theoretical Analysis of the Chiral Au ₃₀ S(S- <i>i</i> -t-Bu) ₁₈ Cluster. <i>Journal of the American Chemical Society</i> , 2014, 136, 5000-5005.	6.6	270
24	Electron microscopy of gold nanoparticles at atomic resolution. <i>Science</i> , 2014, 345, 909-912.	6.0	269
25	Symmetry and Electronic Structure of Noble-Metal Nanoparticles and the Role of Relativity. <i>Physical Review Letters</i> , 2004, 93, 093401.	2.9	241
26	Birth of the Localized Surface Plasmon Resonance in Monolayer-Protected Gold Nanoclusters. <i>ACS Nano</i> , 2013, 7, 10263-10270.	7.3	240
27	Plasmonic twinned silver nanoparticles with molecular precision. <i>Nature Communications</i> , 2016, 7, 12809.	5.8	235
28	Gas-Phase Catalytic Oxidation of CO by Au ₂ . <i>Journal of the American Chemical Society</i> , 2001, 123, 9704-9705.	6.6	230
29	Total Structure and Electronic Structure Analysis of Doped Thiolated Silver [MAg ₂₄ (SR) ₁₈] ²⁺ (M = Pd, Pt) Clusters. <i>Journal of the American Chemical Society</i> , 2015, 137, 11880-11883.	6.6	221
30	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.	6.6	199
31	Size-Dependent Structural Evolution and Chemical Reactivity of Gold Clusters. <i>ChemPhysChem</i> , 2007, 8, 157-161.	1.0	197
32	Asymmetric Synthesis of Chiral Bimetallic [Ag ₂₈ Cu ₁₂ (SR) ₂₄] ⁴⁺ Nanoclusters via Ion Pairing. <i>Journal of the American Chemical Society</i> , 2016, 138, 12751-12754.	6.6	196
33	Time-dependent density-functional theory in the projector augmented-wave method. <i>Journal of Chemical Physics</i> , 2008, 128, 244101.	1.2	187
34	Robust, Highly Luminescent Au ₁₃ Superatoms Protected by N-Heterocyclic Carbenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 14997-15002.	6.6	185
35	Structural, chemical, and dynamical trends in graphene grain boundaries. <i>Physical Review B</i> , 2010, 81, .	1.1	184
36	An Intermetallic Au ₂₄ Ag ₂₀ Superatom Nanocluster Stabilized by Labile Ligands. <i>Journal of the American Chemical Society</i> , 2015, 137, 4324-4327.	6.6	175

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37	[Ag ₆₇ (SPhMe ₂) ₃₂ (PPh ₃) ₈] ³⁺ : Synthesis, Total Structure, and Optical Properties of a Large Box-Shaped Silver Nanocluster. <i>Journal of the American Chemical Society</i> , 2016, 138, 14727-14732.	6.6	167
38	Ligand-Stabilized Au ₁₃ Cu _x (x = 2, 4, 8) Bimetallic Nanoclusters: Ligand Engineering to Control the Exposure of Metal Sites. <i>Journal of the American Chemical Society</i> , 2013, 135, 9568-9571.	6.6	162
39	Jahn–Teller effects in Au ₂₅ (SR) ₁₈ . <i>Chemical Science</i> , 2016, 7, 1882-1890.	3.7	149
40	Structural Evolution of Atomically Precise Thiolated Bimetallic [Au _{12+n} Cu ₃₂ (SR) _{30+n}] ⁴⁻ (n = 0, 1, 2, 3, 4, 5, 6, 7, 8) Over	6.6	148
41	Atomically Precise, Thiolated Copper–Hydride Nanoclusters as Single-Site Hydrogenation Catalysts for Ketones in Mild Conditions. <i>ACS Nano</i> , 2019, 13, 5975-5986.	7.3	138
42	Gold Nanowires and Their Chemical Modifications. <i>Journal of Physical Chemistry B</i> , 1999, 103, 8814-8816.	1.2	135
43	Gold–Thiolate Complexes Form a Unique (4 Å – 2) Structure on Au(111). <i>Journal of Physical Chemistry C</i> , 2008, 112, 15940-15942.	1.5	125
44	Chiral Phase Transfer and Enantioenrichment of Thiolate-Protected Au ₁₀₂ Clusters. <i>Journal of the American Chemical Society</i> , 2014, 136, 4129-4132.	6.6	125
45	Highly Robust but Surface–Active: An N-Heterocyclic Carbene–Stabilized Au ₂₅ Nanocluster. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17731-17735.	7.2	125
46	Bulky Surface Ligands Promote Surface Reactivities of [Ag ₁₄₁ X ₁₂ (S-Adm) ₄₀] ³⁺ (X = Cl, Br, I) Nanoclusters: Models for Multiple-Twinned Nanoparticles. <i>Journal of the American Chemical Society</i> , 2017, 139, 13288-13291.	6.6	124
47	Theoretical Characterization of Cyclic Thiolated Gold Clusters. <i>Journal of the American Chemical Society</i> , 2006, 128, 10268-10275.	6.6	118
48	Embryonic Growth of Face-Center-Cubic Silver Nanoclusters Shaped in Nearly Perfect Half-Cubes and Cubes. <i>Journal of the American Chemical Society</i> , 2017, 139, 31-34.	6.6	113
49	Au ₄₀ (SR) ₂₄ Cluster as a Chiral Dimer of 8-Electron Superatoms: Structure and Optical Properties. <i>Journal of the American Chemical Society</i> , 2012, 134, 19560-19563.	6.6	112
50	Aluminum cluster anions: Photoelectron spectroscopy and ab initio simulations. <i>Physical Review B</i> , 2000, 62, 13216-13228.	1.1	111
51	Thiolate-Protected Au ₂₅ Superatoms as Building Blocks: Dimers and Crystals. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15986-15994.	1.5	109
52	Effects of Silver Doping on the Geometric and Electronic Structure and Optical Absorption Spectra of the Au ₂₅ Ag _x (SH) ₁₈ (x = 1, 2, 3, 4, 5, 6, 7, 8) Nanoclusters	6.6	108
53	Nanowire Gold Chains: Formation Mechanisms and Conductance. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9063-9066.	1.2	106
54	A density functional investigation of thiolate-protected bimetal PdAu ₂₄ (SR) ₁₈ z clusters: doping the superatom complex. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7123.	1.3	100

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55	A hollow tetrahedral cage of hexadecagold dianion provides a robust backbone for a tuneable sub-nanometer oxidation and reduction agent via endohedral doping. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 5407-5411.	1.3	98
56	Site-specific targeting of enterovirus capsid by functionalized monodisperse gold nanoclusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1277-1281.	3.3	95
57	Co-crystallization of atomically precise metal nanoparticles driven by magic atomic and electronic shells. <i>Nature Communications</i> , 2018, 9, 3357.	5.8	95
58	Atomistic Simulations of Functional Au ₁₄₄ (SR) ₆₀ Gold Nanoparticles in Aqueous Environment. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9805-9815.	1.5	94
59	Supramolecular Functionalization and Concomitant Enhancement in Properties of Au ₂₅ Clusters. <i>ACS Nano</i> , 2014, 8, 139-152.	7.3	94
60	Gold in graphene: In-plane adsorption and diffusion. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	93
61	Conformation and dynamics of the ligand shell of a water-soluble Au ₁₀₂ nanoparticle. <i>Nature Communications</i> , 2016, 7, 10401.	5.8	91
62	Solvent-mediated assembly of atom-precise gold-silver nanoclusters to semiconducting one-dimensional materials. <i>Nature Communications</i> , 2020, 11, 2229.	5.8	91
63	From Symmetry Breaking to Unraveling the Origin of the Chirality of Ligated Au ₁₃ Cu ₂ Nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3421-3425.	7.2	88
64	Template-Free Supracolloidal Self-Assembly of Atomically Precise Gold Nanoclusters: From 2D Colloidal Crystals to Spherical Capsids. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 16035-16038.	7.2	86
65	Electronic and Vibrational Signatures of the Au ₁₀₂ (p-MBA) ₄₄ Cluster. <i>Journal of the American Chemical Society</i> , 2011, 133, 3752-3755.	6.6	80
66	Carbon Dioxide Activation and Reaction Induced by Electron Transfer at an Oxide-Metal Interface. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 12484-12487.	7.2	80
67	Connections Between Theory and Experiment for Gold and Silver Nanoclusters. <i>Annual Review of Physical Chemistry</i> , 2018, 69, 205-229.	4.8	80
68	Ag ₄₄ (SeR) ₃₀ : A Hollow Cage Silver Cluster with Selenolate Protection. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3351-3355.	2.1	78
69	A Unified AMBER-Compatible Molecular Mechanics Force Field for Thiolate-Protected Gold Nanoclusters. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 1342-1350.	2.3	76
70	Au Adsorption on Regular and Defected Thin MgO(100) Films Supported by Mo. <i>Journal of Physical Chemistry C</i> , 2007, 111, 4319-4327.	1.5	74
71	Charging of atoms, clusters, and molecules on metal-supported oxides: A general and long-ranged phenomenon. <i>Physical Review B</i> , 2008, 78, .	1.1	74
72	N-Heterocyclic Carbene-Stabilized Hydrido Au ₂₄ Nanoclusters: Synthesis, Structure, and Electrocatalytic Reduction of CO ₂ . <i>Journal of the American Chemical Society</i> , 2022, 144, 9000-9006.	6.6	74

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73	Polymerization at the Alkylthiolate-Au(111) Interface. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3325-3327.	1.2	73
74	[Cu ₃₂ (PET) ₂₄ H ₈ Cl ₂](PPh ₄) ₂ : A Copper Hydride Nanocluster with a Bisquare Antiprismatic Core. <i>Journal of the American Chemical Society</i> , 2020, 142, 13974-13981.	6.6	73
75	Combinatorial Identification of Hydrides in a Ligated Ag ₄₀ Nanocluster with Noncompact Metal Core. <i>Journal of the American Chemical Society</i> , 2019, 141, 11905-11911.	6.6	72
76	Electronic Structure and Bonding of Icosahedral Core-Shell Gold-Silver Nanocluster Au ₁₄₄ Ag ₆₀ (SR) ₆₀ . <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2316-2321.	2.1	71
77	Cd ₁₂ Ag ₃₂ (SePh) ₃₆ : Non-Noble Metal Doped Silver Nanoclusters. <i>Journal of the American Chemical Society</i> , 2019, 141, 8422-8425.	6.6	71
78	Surface Coordination of Multiple Ligands Endows Heterocyclic Carbene-Stabilized Gold Nanoclusters with High Robustness and Surface Reactivity. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3752-3758.	7.2	71
79	Cationic Au Nanoparticle Binding with Plasma Membrane-like Lipid Bilayers: Potential Mechanism for Spontaneous Permeation to Cells Revealed by Atomistic Simulations. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11131-11141.	1.5	69
80	Trapping of 27 bp-8 kbp DNA and immobilization of thiol-modified DNA using dielectrophoresis. <i>Nanotechnology</i> , 2007, 18, 295204.	1.3	68
81	Characterizing low-coordinated atoms at the periphery of MgO-supported Au islands using scanning tunneling microscopy and electronic structure calculations. <i>Physical Review B</i> , 2010, 81, .	1.1	67
82	Hydrogen Welding and Hydrogen Switches in a Monatomic Gold Nanowire. <i>Nano Letters</i> , 2004, 4, 1845-1852.	4.5	66
83	Molecule-like Photodynamics of Au ₁₀₂ (p-MBA) ₄₄ Nanocluster. <i>ACS Nano</i> , 2015, 9, 2328-2335.	7.3	66
84	Chiral Inversion of Thiolate-Protected Gold Nanoclusters via Core Reconstruction without Breaking a Au-S Bond. <i>Journal of the American Chemical Society</i> , 2019, 141, 6006-6012.	6.6	66
85	Thiol-stabilized atomically precise, superatomic silver nanoparticles for catalysing cycloisomerization of alkynyl amines. <i>National Science Review</i> , 2018, 5, 694-702.	4.6	63
86	Liquid-Liquid Phase Coexistence in Gold Clusters: 2D or Not 2D?. <i>Physical Review Letters</i> , 2007, 98, 015701.	2.9	62
87	Experimental and Density Functional Theory Analysis of Serial Introductions of Electron-Withdrawing Ligands into the Ligand Shell of a Thiolate-Protected Au ₂₅ Nanoparticle. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8276-8281.	1.5	61
88	Site Preference in Multimetallic Nanoclusters: Incorporation of Alkali Metal Ions or Copper Atoms into the Alkynyl-Protected Body-Centered Cubic Cluster [Au ₇ Ag ₈ (C ₆₀ TCBu) ₁₂] ⁺ . <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15152-15156.	7.2	60
89	Covalently linked multimers of gold nanoclusters Au ₁₀₂ (p-MBA) ₄₄ and Au ₄₂₅₀ (p-MBA) _n . <i>Nanoscale</i> , 2016, 8, 18665-18674.	2.8	59
90	Nondestructive Size Determination of Thiol-Stabilized Gold Nanoclusters in Solution by Diffusion Ordered NMR Spectroscopy. <i>Analytical Chemistry</i> , 2013, 85, 3489-3492.	3.2	57

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91	Atomically Precise Nanocluster Assemblies Encapsulating Plasmonic Gold Nanorods. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 6522-6526.	7.2	57
92	Electronic Structure and Optical Properties of the Thiolate-Protected Au ₂₈ (SMe) ₂₀ Cluster. <i>Journal of Physical Chemistry A</i> , 2013, 117, 10526-10533.	1.1	56
93	Oxidation of magnesia-supported Pd-clusters leads to the ultimate limit of epitaxy with a catalytic function. <i>Nature Materials</i> , 2006, 5, 44-47.	13.3	55
94	Adsorption of gold clusters on metal-supported MgO: Correlation to electron affinity of gold. <i>Physical Review B</i> , 2007, 76, .	1.1	53
95	Einfluss der geometrischen und elektronischen Struktur sowie der elementaren Zusammensetzung von Clustern auf chemische Prozesse in der Nanometerskala. <i>Angewandte Chemie</i> , 2003, 115, 1335-1338.	1.6	52
96	Theoretical Characterization of Cyclic Thiolated Copper, Silver, and Gold Clusters. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13571-13576.	1.5	51
97	N-Heterocyclic Carbene-Stabilized Gold Nanoclusters with Organometallic Motifs for Promoting Catalysis. <i>Journal of the American Chemical Society</i> , 2022, 144, 10844-10853.	6.6	51
98	Electronic Structure of MgO-Supported Au Clusters: Quantum Dots Probed by Scanning Tunneling Microscopy. <i>Physical Review Letters</i> , 2007, 99, 096102.	2.9	49
99	Ultrafast Electronic Relaxation and Vibrational Cooling Dynamics of Au ₁₄₄ (SC ₂ H ₄ Ph) ₆₀ Nanocluster Probed by Transient Mid-IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 18233-18239.	1.5	49
100	Experimental and Theoretical Determination of the Optical Gap of the Au ₁₄₄ (SC ₂ H ₄ Ph) ₆₀ Cluster and the (Au/Ag) ₁₄₄ (SC ₂ H ₄ Ph) ₆₀ Nanoalloys. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3076-3080.	2.1	48
101	Acid-Base Properties and Surface Charge Distribution of the Water-Soluble Au ₁₀₂ (MBA) ₄₄ Nanocluster. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10041-10050.	1.5	47
102	[Pt ₂ Cu ₃₄ (PET) ₂₂ Cl ₄] ²⁺ : An Atomically Precise, 10-Electron PtCu Bimetal Nanocluster with a Direct Pt-Pt Bond. <i>Journal of the American Chemical Society</i> , 2021, 143, 12100-12107.	6.6	47
103	Pd ₂ Au ₃₆ (SR) ₂₄ cluster: structure studies. <i>Nanoscale</i> , 2015, 7, 17012-17019.	2.8	46
104	A 58-electron superatom-complex model for the magic phosphine-protected gold clusters (Schmid-gold, Nanogold®) of 1.4-nm dimension. <i>Chemical Science</i> , 2011, 2, 1583.	3.7	44
105	Synthesis and Characterization of Enantiopure Chiral Bis NHC-Stabilized Edge-Shared Au ₁₀ Nanocluster with Unique Prolate Shape. <i>Journal of the American Chemical Society</i> , 2022, 144, 2056-2061.	6.6	44
106	Oligomeric Gold-Thiolate Units Define the Properties of the Molecular Junction between Gold and Benzene Dithiols. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1528-1532.	2.1	43
107	A Homoleptic Alkynyl-Ligated [Au ₁₃ Ag ₁₆ L ₂₄] ³⁺ Cluster as a Catalytically Active Eight-Electron Superatom. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 970-975.	7.2	43
108	Evidence of superatom electronic shells in ligand-stabilized aluminum clusters. <i>Journal of Chemical Physics</i> , 2011, 135, 094701.	1.2	42

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109	Au ₇₀ S ₂₀ (PPh ₃) ₁₂ : an intermediate sized metalloid gold cluster stabilized by the Au ₄ S ₄ ring motif and Au-PPh ₃ groups. <i>Chemical Communications</i> , 2018, 54, 248-251.	2.2	42
110	Enhanced Surface Ligands Reactivity of Metal Clusters by Bulky Ligands for Controlling Optical and Chiral Properties. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12897-12903.	7.2	42
111	Density functional study of gold atoms and clusters on a graphite (0001) surface with defects. <i>Physical Review B</i> , 2006, 74, .	1.1	41
112	The Al ₅₀ Cp* ₁₂ Cluster - A 138-Electron Closed Shell (L = 6) Superatom. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2649-2652.	1.0	41
113	Formation of Gold(I) Edge Oxide at Flat Gold Nanoclusters on an Ultrathin MgO Film under Ambient Conditions. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7913-7916.	7.2	40
114	Role of the Central Gold Atom in Ligand-Protected Bicosahedral Au ₂₄ and Au ₂₅ Clusters. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22079-22086.	1.5	39
115	Highly Robust but Surface-Active: An N-Heterocyclic Carbene-Stabilized Au ₂₅ Nanocluster. <i>Angewandte Chemie</i> , 2019, 131, 17895-17899.	1.6	39
116	Stability, electronic structure, and optical properties of protected gold-doped silver Ag ₂₉ ^x Au _x (x = 0-5) nanoclusters. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13868-13874.	1.3	38
117	Reversible isomerization of metal nanoclusters induced by intermolecular interaction. <i>CheM</i> , 2021, 7, 2227-2244.	5.8	38
118	Dynamic Stabilization of the Ligand-Metal Interface in Atomically Precise Gold Nanoclusters Au ₆₈ and Au ₁₄₄ Protected by <i>meta</i> -Mercaptobenzoic Acid. <i>ACS Nano</i> , 2017, 11, 11872-11879.	7.3	37
119	A method for structure prediction of metal-ligand interfaces of hybrid nanoparticles. <i>Nature Communications</i> , 2019, 10, 3973.	5.8	37
120	TDDFT Analysis of Optical Properties of Thiol Monolayer-Protected Gold and Intermetallic Silver-Gold Au ₁₄₄ (SR) ₆₀ and Au ₈₄ Ag ₆₀ (SR) ₆₀ Clusters. <i>Journal of Physical Chemistry C</i> , 2014, 118, 20002-20008.	1.5	36
121	Electronic shell structures in bare and protected metal nanoclusters. <i>Advances in Physics: X</i> , 2016, 1, 467-491.	1.5	36
122	One-pot synthesis and characterization of subnanometre-size benzotriazolone protected copper clusters. <i>Nanoscale</i> , 2012, 4, 4095.	2.8	35
123	Electronic Structure and Optical Properties of the Intrinsically Chiral 16-Electron Superatom Complex [Au ₂₀ (PP ₃) ₄] ⁴⁺ . <i>Journal of Physical Chemistry A</i> , 2014, 118, 4214-4221.	1.1	35
124	Hydrophobic pocket targeting probes for enteroviruses. <i>Nanoscale</i> , 2015, 7, 17457-17467.	2.8	35
125	Mixed-Monolayer-Protected Au ₂₅ Clusters with Bulky Calix[4]arene Functionalities. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 585-589.	2.1	34
126	Vibrational Perturbations and Ligand-Layer Coupling in a Single Crystal of Au ₁₄₄ (SC ₂ H ₄ Ph) ₆₀ Nanocluster. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 387-392.	2.1	34

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127	Reversible Supracolloidal Self-Assembly of Cobalt Nanoparticles to Hollow Capsids and Their Superstructures. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6473-6477.	7.2	34
128	Towards Controlled Synthesis of Water-Soluble Gold Nanoclusters: Synthesis and Analysis. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2602-2612.	1.5	34
129	The Redox Chemistry of Gold with High-Valence Doped Calcium Oxide. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1424-1427.	7.2	33
130	Dynamic Diglyme-Mediated Self-Assembly of Gold Nanoclusters. <i>ACS Nano</i> , 2015, 9, 11690-11698.	7.3	33
131	Monte Carlo Simulations of Au ₃₈ (SCH ₃) ₂₄ Nanocluster Using Distance-Based Machine Learning Methods. <i>Journal of Physical Chemistry A</i> , 2020, 124, 4827-4836.	1.1	33
132	Experimental Confirmation of a Topological Isomer of the Ubiquitous Au ₂₅ (SR) ₁₈ Cluster in the Gas Phase. <i>Journal of the American Chemical Society</i> , 2021, 143, 1273-1277.	6.6	33
133	Copper-hydride nanoclusters with enhanced stability by N-heterocyclic carbenes. <i>Nano Research</i> , 2021, 14, 3303-3308.	5.8	33
134	Ag ₄₄ (EBT) ₂₆ (TPP) ₄ Nanoclusters With Tailored Molecular and Electronic Structure. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 9038-9044.	7.2	33
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