

# Tatsuya Tsukuda

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

238  
papers

15,836  
citations

59  
h-index

122  
g-index

269  
ext. papers

17,291  
ext. citations

6.8  
avg, IF

6.99  
L-index

#	Paper	IF	Citations
238	Synthesis of active, robust and cationic Au cluster catalysts on double metal hydroxide by long-term oxidative aging of Au(SR).. <i>Nanoscale</i> , <b>2022</b> ,	7.7	4
237	Synthesis and Characterization of Enantiopure Chiral Bis NHC-Stabilized Edge-Shared Au Nanocluster with Unique Prolate Shape.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	8
236	NHC-Stabilized Au Nanoclusters and Their Conversion to Au Nanoclusters.. <i>Jacs Au</i> , <b>2022</b> , 2, 875-885		2
235	Atomically Precise Synthesis of Chemically Modified Superatoms <b>2021</b> , 141-181		
234	Decorating an anisotropic Au core with dendron thiolates: enhancement of optical absorption and photoluminescence. <i>Chemical Communications</i> , <b>2021</b> , 57, 12159-12162	5.8	0
233	A Face-to-Face Dimer of Au Superatoms Supported by Interlocked Tridentate Scaffolds Formed in Au S (SR). <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 61, e202113275	16.4	0
232	Critical Role of CF Groups in the Electronic Stabilization of [PdAu(C $\beta$ CCH(CF))] as Revealed by Gas-Phase Anion Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10417-10424	6.4	1
231	Ligand Effects on the Hydrogen Evolution Reaction Catalyzed by Au <sub>13</sub> and [email protected] <sub>12</sub> : Alkynyl vs Thiolate. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 23226-23230	3.8	5
230	Toward Controlling the Electronic Structures of Chemically Modified Superatoms of Gold and Silver. <i>Small</i> , <b>2021</b> , 17, e2001439	11	31
229	The Journal of Physical Chemistry C Virtual Special Issue on Metal Clusters, Nanoparticles, and the Physical Chemistry of Catalysis. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 4927-4929	3.8	2
228	Exploring Novel Catalysis Using Polymer-Stabilized Metal Clusters. <i>Bulletin of the Chemical Society of Japan</i> , <b>2021</b> , 94, 1036-1044	5.1	6
227	Gas-phase studies of chemically synthesized Au and Ag clusters. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 140901	3.9	10
226	Ligand Effects on the Structures of [Au <sub>23</sub> L <sub>6</sub> (C $\beta$ CPh) <sub>9</sub> ] <sup>2+</sup> (L = N-Heterocyclic Carbene vs Phosphine) with Au <sub>17</sub> Superatomic Cores. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 9930-9936	3.8	8
225	New Magic Au Cluster Stabilized by PVP: Selective Formation, Atomic Structure, and Oxidation Catalysis. <i>Jacs Au</i> , <b>2021</b> , 1, 660-668		7
224	Photoluminescence of Doped Superatoms M@Au (M = Ru, Rh, Ir) Homoleptically Capped by (Ph)PCHP(Ph): Efficient Room-Temperature Phosphorescence from Ru@Au. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 10560-10564	16.4	12
223	Chemically Modified Superatoms: Toward Controlling the Electronic Structures of Chemically Modified Superatoms of Gold and Silver (Small 27/2021). <i>Small</i> , <b>2021</b> , 17, 2170136	11	
222	Controlled Dimerization and Bonding Scheme of Icosahedral M@Au (M=Pd, Pt) Superatoms. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 645-649	16.4	19

221	Controlled Dimerization and Bonding Scheme of Icosahedral M@Au <sub>12</sub> (M=Pd, Pt) Superatoms. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 655-659	3.6	1
220	Identification of hydrogen species on Pt/Al <sub>2</sub> O <sub>3</sub> by in situ inelastic neutron scattering and their reactivity with ethylene. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 116-123	5.5	4
219	Few-nm-sized, phase-pure AuSn intermetallic nanoparticles: synthesis and characterization. <i>Dalton Transactions</i> , <b>2021</b> , 50, 5177-5183	4.3	2
218	Chemically Modified Gold/Silver Superatoms as Artificial Elements at Nanoscale: Design Principles and Synthesis Challenges. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 1683-1698	16.4	53
217	Effects of Electron Systems on Optical Activity of Au <sub>11</sub> Clusters Protected by Chiral Diphosphines. <i>Bulletin of the Korean Chemical Society</i> , <b>2021</b> , 42, 1265-1268	1.2	1
216	Atomically-ordered Trimetallic Superatoms M@Au <sub>6</sub> Ag <sub>6</sub> (M = Pd, Pt): Synthesis and Photoluminescence Properties. <i>Chemistry Letters</i> , <b>2021</b> , 50, 1419-1422	1.7	2
215	Synergistic Effect in Ir- or Pt-Doped Ru Nanoparticles: Catalytic Hydrogenation of Carbonyl Compounds under Ambient Temperature and H <sub>2</sub> Pressure. <i>ACS Catalysis</i> , <b>2021</b> , 11, 10502-10507	13.1	2
214	Chemical transformations of [MAu(PPh)] (M = Pt, Pd) and [Au(PPh)] in methanol induced by irradiation of atmospheric pressure plasma. <i>Journal of Chemical Physics</i> , <b>2021</b> , 155, 124312	3.9	0
213	Electron-Rich Gold Clusters Stabilized by Poly(vinylpyridines) as Robust and Active Oxidation Catalysts. <i>Langmuir</i> , <b>2020</b> , 36, 7844-7849	4	6
212	Understanding Doping Effects on Electronic Structures of Gold Superatoms: A Case Study of Diphosphine-Protected M@Au (M = Au, Pt, Ir). <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 17889-17895	5.1	21
211	Electron Microscopic Observation of an Icosahedral Au <sub>13</sub> Core in Au <sub>25</sub> (SePh) <sub>18</sub> and Reversible Isomerization between Icosahedral and Face-Centered Cubic Cores in Au <sub>144</sub> (SC <sub>2</sub> H <sub>4</sub> Ph) <sub>60</sub> . <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 6907-6912	3.8	12
210	CdTe quantum dots modified electrodes ITO-(Polycation/QDs) for carbon dioxide reduction to methanol. <i>Applied Surface Science</i> , <b>2020</b> , 509, 145386	6.7	3
209	Base Catalytic Activity of [Nb <sub>10</sub> O <sub>28</sub> ] <sup>6-</sup> Effect of Counteranions. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 10975-10980	3.8	5
208	Electron Binding in a Superatom with a Repulsive Coulomb Barrier: The Case of [Ag(SCHF)] in the Gas Phase. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 3069-3074	6.4	17
207	Ligand-protected gold/silver superatoms: current status and emerging trends. <i>Chemical Science</i> , <b>2020</b> , 11, 12233-12248	9.4	26
206	Synergistic Effects of Pt and Cd Codoping to Icosahedral Au <sub>13</sub> Superatoms. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 23923-23929	3.8	14
205	Sequential growth of iridium cluster anions based on simple cubic packing. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 17842-17846	3.6	2
204	Collision-Induced Reductive Elimination of 1,3-Diynes from [MAu <sub>24</sub> (C <sup>?</sup> CR) <sub>18</sub> ] <sub>2</sub> (M = Pd, Pt) Yielding Clusters of Superatoms. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 19119-19125	3.8	6

203	AuSi and AuSi: Electronically Equivalent but Different Polarity Superatoms. <i>Journal of Physical Chemistry A</i> , <b>2020</b> , 124, 7710-7715	2.8	2
202	xTunes: A new XAS processing tool for detailed and on-the-fly analysis. <i>Radiation Physics and Chemistry</i> , <b>2020</b> , 175, 108270	2.5	21
201	Robust, Highly Luminescent Au Superatoms Protected by N-Heterocyclic Carbenes. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 14997-15002	16.4	95
200	Structures of Chemically Modified Superatoms. <i>Molecular Science</i> , <b>2019</b> , 13, A0108	0	1
199	Efficient and Selective Conversion of Phosphine-Protected (MAu) (M = Pd, Pt) Superatoms to Thiolate-Protected (MAu) or Alkynyl-Protected (MAu) Superatoms via Hydride Doping. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 15994-16002	16.4	50
198	Elucidating the Doping Effect on the Electronic Structure of Thiolate-Protected Silver Superatoms by Photoelectron Spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 11637-11641	16.4	33
197	Structural Evolution of Iridium Oxide Cluster Anions Ir <sub>n</sub> O <sub>m</sub> [(n = 58)] with Sequential Oxidation: Binding Mode of O Atoms and Ir Framework. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 15301-15306	3.8	6
196	Synthesis of Trimetallic (HPd@MAu) Superatoms (M = Ag, Cu) via Hydride-Mediated Regioselective Doping to (Pd@Au). <i>ACS Omega</i> , <b>2019</b> , 4, 7070-7075	3.9	24
195	Photoinduced Thermionic Emission from [M <sub>25</sub> (SR) <sub>18</sub> ](M = Au, Ag) Revealed by Anion Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2019</b> ,	3.8	24
194	N-heterocyclic carbene-functionalized magic-number gold nanoclusters. <i>Nature Chemistry</i> , <b>2019</b> , 11, 419-425	17.6	185
193	Stoichiometric Formation of Open-Shell [PtAu(SCHPh)] via Spontaneous Electron Proportionation between [PtAu(SCHPh)] and [PtAu(SCHPh)]. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 14048-14051	16.4	39
192	Elucidating the Doping Effect on the Electronic Structure of Thiolate-Protected Silver Superatoms by Photoelectron Spectroscopy. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 11763-11767	3.6	5
191	Titelbild: Elucidating the Doping Effect on the Electronic Structure of Thiolate-Protected Silver Superatoms by Photoelectron Spectroscopy (Angew. Chem. 34/2019). <i>Angewandte Chemie</i> , <b>2019</b> , 131, 11667-11667	3.6	
190	Ultrathin Gold Nanowires and Nanorods. <i>Chemistry Letters</i> , <b>2019</b> , 48, 906-915	1.7	15
189	Characterization of chemically modified gold and silver clusters in gas phase. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 17463-17474	3.6	20
188	Reductive Activation of Small Molecules by Anionic Coinage Metal Atoms and Clusters in the Gas Phase. <i>Chemistry - an Asian Journal</i> , <b>2019</b> , 14, 3763-3772	4.5	6
187	Alkynyl-Protected Au(C?CR) Clusters Featuring New Interfacial Motifs and R-Dependent Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 6892-6896	6.4	53
186	Characterization of Chemically Modified Gold/Silver Superatoms in the Gas Phase <b>2019</b> , 223-253		

185	Reduction-resistant [Au <sub>25</sub> (cyclohexanethiolate) <sub>18</sub> ] <sub>0</sub> with an Icosahedral Au <sub>13</sub> Core. <i>Chemistry Letters</i> , <b>2019</b> , 48, 885-887	1.7	6
184	Acid-base equilibrium of the chromophore counterion results in distinct photoisomerization reactivity in the primary event of proteorhodopsin. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 25728-25734 <sup>2</sup>	3.6	2
183	Asymmetric aerobic oxidation of secondary alcohols catalyzed by poly(N-vinyl-2-pyrrolidone)-stabilized gold clusters modified with cyclodextrin derivatives. <i>Chemical Communications</i> , <b>2019</b> , 55, 15033-15036	5.8	11
182	X-ray Absorption Spectroscopy on Atomically Precise Metal Clusters. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 193-204	5.1	28
181	Au <sub>25</sub> -Loaded BaLa <sub>4</sub> Ti <sub>4</sub> O <sub>15</sub> Water-Splitting Photocatalyst with Enhanced Activity and Durability Produced Using New Chromium Oxide Shell Formation Method. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 13669-13681	3.8	45
180	Gold Ultrathin Nanorods with Controlled Aspect Ratios and Surface Modifications: Formation Mechanism and Localized Surface Plasmon Resonance. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 6640-6647	16.4	44
179	Efficient One-Pot Synthesis and pH-Dependent Tuning of Photoluminescence and Stability of Au(SCHCOH) Cluster. <i>Journal of Physical Chemistry A</i> , <b>2018</b> , 122, 1228-1234	2.8	12
178	Size-Dependent Polymorphism in Aluminum Carbide Cluster Anions Al <sub>n</sub> C <sub>2</sub> <sup>-</sup> Formation of Acetylide-Containing Structures. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 8341-8347	3.8	4
177	Collision-Induced Dissociation of Undecagold Clusters Protected by Mixed Ligands [Au(PPh)X] (X = Cl, C <sub>6</sub> H <sub>5</sub> ). <i>ACS Omega</i> , <b>2018</b> , 3, 6237-6242	3.9	23
176	Hydride-Doped Gold Superatom (AuH): Synthesis, Structure, and Transformation. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 8380-8383	16.4	74
175	Doping a Single Palladium Atom into Gold Superatoms Stabilized by PVP: Emergence of Hydrogenation Catalysis. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 136-141	2.3	23
174	Dynamic Behavior of Rh Species in Rh/AlO Model Catalyst during Three-Way Catalytic Reaction: An Operando X-ray Absorption Spectroscopy Study. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 176-184	16.4	29
173	Hydride Doping of Chemically Modified Gold-Based Superatoms. <i>Accounts of Chemical Research</i> , <b>2018</b> , 51, 3074-3083	24.3	77
172	Photoelectron Spectroscopy of Molecular Anion of Alq: An Estimation of Reorganization Energy for Electron Transport in the Bulk. <i>ACS Omega</i> , <b>2018</b> , 3, 15200-15204	3.9	2
171	Superior Base Catalysis of Group 5 Hexametalates [M <sub>6</sub> O <sub>19</sub> ] <sub>8</sub> <sup>-</sup> (M = Ta, Nb) over Group 6 Hexametalates [M <sub>6</sub> O <sub>19</sub> ] <sub>2</sub> <sup>-</sup> (M = Mo, W). <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 29398-29404	3.8	18
170	Abstraction of the I Atom from CHI by Gas-Phase Au (n = 1-4) via Reductive Activation of the C-I Bond. <i>ACS Omega</i> , <b>2018</b> , 3, 16874-16881	3.9	6
169	Interconversions of Structural Isomers of [PdAu <sub>8</sub> (PPh <sub>3</sub> ) <sub>8</sub> ] <sub>2+</sub> and [Au <sub>9</sub> (PPh <sub>3</sub> ) <sub>8</sub> ] <sub>3+</sub> Revealed by Ion Mobility Mass Spectrometry. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 23123-23128	3.8	16
168	Hydride-Mediated Controlled Growth of a Bimetallic (Pd@Au) Superatom to a Hydride-Doped (HPd@Au) Superatom. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 12314-12317	16.4	51

- 167 An Au<sub>25</sub>(SR)<sub>18</sub> Cluster with a Face-Centered Cubic Core. *Journal of Physical Chemistry C*, **2018**, 122, 13199-13204
- 166 Prominent hydrogenation catalysis of a PVP-stabilized Au superatom provided by doping a single Rh atom. *Chemical Communications*, **2018**, 54, 5915-5918 5.8 23
- 165 Structural Model of Ultrathin Gold Nanorods Based on High-Resolution Transmission Electron Microscopy: Twinned 1D Oligomers of Cuboctahedrons. *Journal of Physical Chemistry C*, **2017**, 121, 10942-10947 3.8 10947
- 164 Hydrogen-Mediated Electron Doping of Gold Clusters As Revealed by In Situ X-ray and UV-vis Absorption Spectroscopy. *Journal of Physical Chemistry Letters*, **2017**, 8, 2368-2372 6.4 22
- 163 Suppressing Isomerization of Phosphine-Protected Au Cluster by Bond Stiffening Induced by a Single Pd Atom Substitution. *Inorganic Chemistry*, **2017**, 56, 8319-8325 5.1 39
- 162 Lewis Base Catalytic Properties of [Nb O ] for CO Fixation to Epoxide: Kinetic and Theoretical Studies. *Chemistry - an Asian Journal*, **2017**, 12, 1635-1640 4.5 14
- 161 Observation and the Origin of Magic Compositions of ConOm Formed in Oxidation of Cobalt Cluster Anions. *Journal of Physical Chemistry C*, **2017**, 121, 10957-10963 3.8 7
- 160 Monodisperse Iridium Clusters Protected by Phenylacetylene: Implication for Size-Dependent Evolution of Binding Sites. *Journal of Physical Chemistry C*, **2017**, 121, 10936-10941 3.8 14
- 159 Photoassisted Homocoupling of Methyl Iodide Mediated by Atomic Gold in Low-Temperature Neon Matrix. *Journal of Physical Chemistry A*, **2017**, 121, 8408-8413 2.8 3
- 158 A gold superatom with 10 electrons in Au<sub>13</sub>(PPh<sub>3</sub>)<sub>8</sub>(p-SC<sub>6</sub>H<sub>4</sub>CO<sub>2</sub>H)<sub>3</sub>. *APL Materials*, **2017**, 5, 053402 5.7 9
- 157 Formation of Grignard Reagent-like Complex [CH<sub>3</sub>M] via Oxidative Addition of CH<sub>3</sub>I on Coinage Metal Anions M<sup>-</sup> (M = Cu, Ag, Au) in the Gas Phase. *Chemistry Letters*, **2017**, 46, 676-679 1.7 7
- 156 Anion photoelectron spectroscopy of free [Au(SCH)]. *Nanoscale*, **2017**, 9, 13409-13412 7.7 32
- 155 Ion Transport across Biological Membranes by Carborane-Capped Gold Nanoparticles. *ACS Nano*, **2017**, 11, 12492-12499 16.7 33
- 154 Structure Determination of a Water-Soluble 144-Gold Atom Particle at Atomic Resolution by Aberration-Corrected Electron Microscopy. *ACS Nano*, **2017**, 11, 11866-11871 16.7 38
- 153 Atomically-Precise Synthesis and Structure Determination of Coinage Metal Clusters. *Hyomen Kagaku*, **2017**, 38, 4-11
- 152 Optical Properties of Ultra-Small Gold Nanostructures. *Springer Series in Chemical Physics*, **2017**, 205-218 0.3 1
- 151 Repeated appearance and disappearance of localized surface plasmon resonance in 1.2 nm gold clusters induced by adsorption and desorption of hydrogen atoms. *Nanoscale*, **2016**, 8, 2544-7 7.7 20
- 150 Tuning the electronic structure of thiolate-protected 25-atom clusters by co-substitution with metals having different preferential sites. *Dalton Transactions*, **2016**, 45, 18064-18068 4.3 41

149	Amplification of the Optical Activity of Gold Clusters by the Proximity of BINAP. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 4509-4513	6.4	59
148	Halogen adsorbates on polymer-stabilized gold clusters: Mass spectrometric detection and effects on catalysis. <i>Chinese Journal of Catalysis</i> , <b>2016</b> , 37, 1656-1661	11.3	11
147	Selective and High-Yield Synthesis of Oblate Superatom [PdAu <sub>8</sub> (PPh <sub>3</sub> ) <sub>8</sub> ] <sup>2+</sup> . <i>ChemElectroChem</i> , <b>2016</b> , 3, 1190-1190	4.3	0
146	Size-Specific, Dissociative Activation of Carbon Dioxide by Cobalt Cluster Anions. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 14209-14215	3.8	27
145	Hierarchy of bond stiffnesses within icosahedral-based gold clusters protected by thiolates. <i>Nature Communications</i> , <b>2016</b> , 7, 10414	17.4	118
144	Application of group V polyoxometalate as an efficient base catalyst: a case study of decaniobate clusters. <i>RSC Advances</i> , <b>2016</b> , 6, 16239-16242	3.7	18
143	Oxidative Addition of CH <sub>3</sub> I to Au(-) in the Gas Phase. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 957-63	2.8	14
142	The electrooxidation-induced structural changes of gold di-superatomic molecules: Au <sub>23</sub> vs. Au <sub>25</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 4822-7	3.6	12
141	Selective and High-Yield Synthesis of Oblate Superatom [PdAu <sub>8</sub> (PPh <sub>3</sub> ) <sub>8</sub> ] <sup>2+</sup> . <i>ChemElectroChem</i> , <b>2016</b> , 3, 1206-1211	4.3	15
140	Rayleigh Instability and Surfactant-Mediated Stabilization of Ultrathin Gold Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 17006-17010	3.8	20
139	Partially oxidized iridium clusters within dendrimers: size-controlled synthesis and selective hydrogenation of 2-nitrobenzaldehyde. <i>Nanoscale</i> , <b>2016</b> , 8, 11371-4	7.7	27
138	Controlled Synthesis of Carbon-Supported Gold Clusters for Rational Catalyst Design. <i>Chemical Record</i> , <b>2016</b> , 16, 2338-2348	6.6	33
137	Synthesis and Catalytic Application of Ag <sub>44</sub> Clusters Supported on Mesoporous Carbon. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 27483-27488	3.8	49
136	Controlled Synthesis: Size Control. <i>Frontiers of Nanoscience</i> , <b>2015</b> , 9, 9-38	0.7	4
135	Slow-Reduction Synthesis of a Thiolate-Protected One-Dimensional Gold Cluster Showing an Intense Near-Infrared Absorption. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 7027-30	16.4	56
134	Preface to Special Issue on Current Trends in Clusters and Nanoparticles. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10795-10796	3.8	1
133	Density Functional Theory Study on Stabilization of the Al <sub>13</sub> Superatom by Poly(vinylpyrrolidone). <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10904-10909	3.8	13
132	A critical size for emergence of nonbulk electronic and geometric structures in dodecanethiolate-protected Au clusters. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 1206-12	16.4	271

131	Nonscalable oxidation catalysis of gold clusters. <i>Accounts of Chemical Research</i> , <b>2014</b> , 47, 816-24	24.3	449
130	A face-sharing bi-icosahedral model for Al <sub>2</sub> . <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 21717-20	3.6	7
129	A twisted bi-icosahedral Au(25) cluster enclosed by bulky arenethiolates. <i>Chemical Communications</i> , <b>2014</b> , 50, 839-41	5.8	40
128	Hydrogen-induced structural transformation of AuCu nanoalloys probed by synchrotron X-ray diffraction techniques. <i>Nanoscale</i> , <b>2014</b> , 6, 4067-71	7.7	20
127	Nanoparticle imaging. Electron microscopy of gold nanoparticles at atomic resolution. <i>Science</i> , <b>2014</b> , 345, 909-12	33.3	234
126	Preferential Location of Coinage Metal Dopants (M = Ag or Cu) in [Au <sub>25</sub> M <sub>x</sub> (SC <sub>2</sub> H <sub>4</sub> Ph) <sub>18</sub> ] <sup>[(x ~ 1)]</sup> As Determined by Extended X-ray Absorption Fine Structure and Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 25284-25290	3.8	80
125	Thiolate-Mediated Selectivity Control in Aerobic Alcohol Oxidation by Porous Carbon-Supported Au <sub>25</sub> Clusters. <i>ACS Catalysis</i> , <b>2014</b> , 4, 3696-3700	13.1	133
124	Selective Hydrogenation of 4-Nitrobenzaldehyde to 4-Aminobenzaldehyde by Colloidal RhCu Bimetallic Nanoparticles. <i>Topics in Catalysis</i> , <b>2014</b> , 57, 1049-1053	2.3	14
123	Surface plasmon resonance in gold ultrathin nanorods and nanowires. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 8489-91	16.4	64
122	Au <sub>25</sub> Clusters Containing Unoxidized Tellurolates in the Ligand Shell. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 2072-6	6.4	46
121	Chemically modified gold superatoms and superatomic molecules. <i>Chemical Record</i> , <b>2014</b> , 14, 897-909	6.6	34
120	CHAPTER 10: Metal Clusters in Catalysis. <i>RSC Smart Materials</i> , <b>2014</b> , 291-322	0.6	2
119	Selenolate-Protected Au <sub>38</sub> Nanoclusters: Isolation and Structural Characterization. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 3181-3185	6.4	68
118	Formation of a [email-protected] <sub>12</sub> Superatomic Core in Au <sub>24</sub> Pd <sub>1</sub> (SC <sub>12</sub> H <sub>25</sub> ) <sub>18</sub> Probed by <sup>197</sup> Au Mössbauer and Pd K-Edge EXAFS Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , <b>2013</b> , 4, 3579-3583	6.4	80
117	Enhanced magnetization in highly crystalline and atomically mixed bcc Fe-Co nanoalloys prepared by hydrogen reduction of oxide composites. <i>Nanoscale</i> , <b>2013</b> , 5, 1489-93	7.7	25
116	Direct atomic imaging and density functional theory study of the Au <sub>24</sub> Pd <sub>1</sub> cluster catalyst. <i>Nanoscale</i> , <b>2013</b> , 5, 9620-5	7.7	32
115	Structural evolution of glutathionate-protected gold clusters studied by means of <sup>197</sup> Au Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , <b>2013</b> , 217, 91-98	0.8	6
114	Binding motif of terminal alkynes on gold clusters. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 9450-7	16.4	141

113	Dendrimer-Encapsulated Copper Cluster as a Chemoselective and Regenerable Hydrogenation Catalyst. <i>ACS Catalysis</i> , <b>2013</b> , 3, 182-185	13.1	69
112	Structural Characterization of Unprecedented Al <sub>14</sub> O <sub>13</sub> and Al <sub>15</sub> O <sub>12</sub> Photoelectron Spectroscopy and Density Functional Calculations. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 6664-6668	3.8	15
111	Production of Oxidation-resistant Copper Nanoparticles on Carbon Nanotubes by Photoreduction. <i>Chemistry Letters</i> , <b>2013</b> , 42, 168-170	1.7	9
110	Selective Hydrogenation of Nitroaromatics by Colloidal Iridium Nanoparticles. <i>Chemistry Letters</i> , <b>2013</b> , 42, 1023-1025	1.7	17
109	Study of the structure and electronic state of thiolate-protected gold clusters by means of <sup>197</sup> Au Mössbauer spectroscopy <b>2013</b> , 563-567		
108	Toward an Atomic-Level Understanding of Size-Specific Properties of Protected and Stabilized Gold Clusters. <i>Bulletin of the Chemical Society of Japan</i> , <b>2012</b> , 85, 151-168	5.1	207
107	Selective synthesis of organogold magic clusters Au <sub>54</sub> (C <sub>60</sub> Ph) <sub>26</sub> . <i>Chemical Communications</i> , <b>2012</b> , 48, 6085-7	5.8	86
106	Platonic hexahedron composed of six organic faces with an inscribed Au cluster. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 816-9	16.4	25
105	Thermal stabilization of thin gold nanowires by surfactant-coating: a molecular dynamics study. <i>Nanoscale</i> , <b>2012</b> , 4, 585-90	7.7	13
104	Enhancement in Aerobic Alcohol Oxidation Catalysis of Au <sub>25</sub> Clusters by Single Pd Atom Doping. <i>ACS Catalysis</i> , <b>2012</b> , 2, 1519-1523	13.1	312
103	Synthesis and the Origin of the Stability of Thiolate-Protected Au <sub>130</sub> and Au <sub>187</sub> Clusters. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 1624-8	6.4	141
102	A new binding motif of sterically demanding thiolates on a gold cluster. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 14295-7	16.4	105
101	Preparation and Catalysis of Supported NiO Nanocluster for Oxidative Coupling of Thiophenol. <i>Transactions of the Materials Research Society of Japan</i> , <b>2012</b> , 37, 177-180	0.2	7
100	Size and shape of nanoclusters: single-shot imaging approach. <i>Small</i> , <b>2012</b> , 8, 2361-4	11	26
99	Stabilized gold clusters: from isolation toward controlled synthesis. <i>Nanoscale</i> , <b>2012</b> , 4, 4027-37	7.7	255
98	Study of the structure and electronic state of thiolate-protected gold clusters by means of <sup>197</sup> Au Mössbauer spectroscopy. <i>Hyperfine Interactions</i> , <b>2012</b> , 207, 127-131	0.8	3
97	High-yield synthesis of PVP-stabilized small Pt clusters by microfluidic method. <i>Catalysis Today</i> , <b>2012</b> , 183, 101-107	5.3	37
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