

Shinjiro Takano

List of Publications by Citations

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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.

59
papers

2,452
citations

24
h-index

49
g-index

66
ext. papers

3,057
ext. citations

9.2
avg, IF

5.76
L-index

#	Paper	IF	Citations
59	Light-induced spin-crossover magnet. <i>Nature Chemistry</i> , 2011 , 3, 564-9	17.6	392
58	A critical size for emergence of nonbulk electronic and geometric structures in dodecanethiolate-protected Au clusters. <i>Journal of the American Chemical Society</i> , 2015 , 137, 1206-12	16.4	271
57	90-degree optical switching of output second-harmonic light in chiral photomagnet. <i>Nature Photonics</i> , 2014 , 8, 65-71	33.9	218
56	N-heterocyclic carbene-functionalized magic-number gold nanoclusters. <i>Nature Chemistry</i> , 2019 , 11, 419-425	17.6	185
55	Binding motif of terminal alkynes on gold clusters. <i>Journal of the American Chemical Society</i> , 2013 , 135, 9450-7	16.4	141
54	Hierarchy of bond stiffnesses within icosahedral-based gold clusters protected by thiolates. <i>Nature Communications</i> , 2016 , 7, 10414	17.4	118
53	Robust, Highly Luminescent Au Superatoms Protected by N-Heterocyclic Carbenes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14997-15002	16.4	95
52	Hydride Doping of Chemically Modified Gold-Based Superatoms. <i>Accounts of Chemical Research</i> , 2018 , 51, 3074-3083	24.3	77
51	Hydride-Doped Gold Superatom (AuH): Synthesis, Structure, and Transformation. <i>Journal of the American Chemical Society</i> , 2018 , 140, 8380-8383	16.4	74
50	Amplification of the Optical Activity of Gold Clusters by the Proximity of BINAP. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4509-4513	6.4	59
49	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> , 2015 , 137, 7027-30	16.4	56
48	Alkynyl-Protected Au(C ₂ CR) Clusters Featuring New Interfacial Motifs and R-Dependent Photoluminescence. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 6892-6896	6.4	53
47	Chemically Modified Gold/Silver Superatoms as Artificial Elements at Nanoscale: Design Principles and Synthesis Challenges. <i>Journal of the American Chemical Society</i> , 2021 , 143, 1683-1698	16.4	53
46	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> , 2018 , 140, 12314-12317	16.4	51
45	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> , 2019 , 141, 15994-16002	16.4	50
44	Synthesis and Catalytic Application of Ag ₄₄ Clusters Supported on Mesoporous Carbon. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27483-27488	3.8	49
43	Suppressing Isomerization of Phosphine-Protected Au Cluster by Bond Stiffening Induced by a Single Pd Atom Substitution. <i>Inorganic Chemistry</i> , 2017 , 56, 8319-8325	5.1	39

42	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> , 2019 , 141, 14048-14051	16.4	39
41	Controlled Synthesis of Carbon-Supported Gold Clusters for Rational Catalyst Design. <i>Chemical Record</i> , 2016 , 16, 2338-2348	6.6	33
40	Anion photoelectron spectroscopy of free [Au(SCH)]. <i>Nanoscale</i> , 2017 , 9, 13409-13412	7.7	32
39	Toward Controlling the Electronic Structures of Chemically Modified Superatoms of Gold and Silver. <i>Small</i> , 2021 , 17, e2001439	11	31
38	An Au ₂₅ (SR) ₁₈ Cluster with a Face-Centered Cubic Core. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13199-13204	9.8	28
37	Ligand-protected gold/silver superatoms: current status and emerging trends. <i>Chemical Science</i> , 2020 , 11, 12233-12248	9.4	26
36	Synthesis of Trimetallic (HPd@MAu) Superatoms (M = Ag, Cu) via Hydride-Mediated Regioselective Doping to (Pd@Au). <i>ACS Omega</i> , 2019 , 4, 7070-7075	3.9	24
35	Collision-Induced Dissociation of Undecagold Clusters Protected by Mixed Ligands [Au(PPh)X] (X = Cl, C ₂ Ph). <i>ACS Omega</i> , 2018 , 3, 6237-6242	3.9	23
34	Prominent hydrogenation catalysis of a PVP-stabilized Au superatom provided by doping a single Rh atom. <i>Chemical Communications</i> , 2018 , 54, 5915-5918	5.8	23
33	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> , 2020 , 59, 17889-17895	5.1	21
32	Controlled Dimerization and Bonding Scheme of Icosahedral M@Au (M=Pd, Pt) Superatoms. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 645-649	16.4	19
31	Interconversions of Structural Isomers of [PdAu ₈ (PPh ₃) ₈] ²⁺ and [Au ₉ (PPh ₃) ₈] ³⁺ Revealed by Ion Mobility Mass Spectrometry. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23123-23128	3.8	16
30	Selective and High-Yield Synthesis of Oblate Superatom [PdAu ₈ (PPh ₃) ₈] ²⁺ . <i>ChemElectroChem</i> , 2016 , 3, 1206-1211	4.3	15
29	Synergistic Effects of Pt and Cd Codoping to Icosahedral Au ₁₃ Superatoms. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 23923-23929	3.8	14
28	Electron Microscopic Observation of an Icosahedral Au ₁₃ Core in Au ₂₅ (SePh) ₁₈ and Reversible Isomerization between Icosahedral and Face-Centered Cubic Cores in Au ₁₄₄ (SC ₂ H ₄ Ph) ₆₀ . <i>Journal of Physical Chemistry C</i> , 2020 , 124, 6907-6912	3.8	12
27	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> , 2021 , 143, 10560-10564	16.4	12
26	Asymmetric aerobic oxidation of secondary alcohols catalyzed by poly(N-vinyl-2-pyrrolidone)-stabilized gold clusters modified with cyclodextrin derivatives. <i>Chemical Communications</i> , 2019 , 55, 15033-15036	5.8	11
25	A gold superatom with 10 electrons in Au ₁₃ (PPh ₃) ₈ (p-SC ₆ H ₄ CO ₂ H) ₃ . <i>APL Materials</i> , 2017 , 5, 053402	5.7	9

24	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> , 2022 ,	16.4	8
23	Ligand Effects on the Structures of $[Au_{23}L_6(C\#CPh)_9]^{2+}$ (L = N-Heterocyclic Carbene vs Phosphine) with Au ₁₇ Superatomic Cores. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 9930-9936	3.8	8
22	New Magic Au Cluster Stabilized by PVP: Selective Formation, Atomic Structure, and Oxidation Catalysis. <i>Jacs Au</i> , 2021 , 1, 660-668		7
21	Electron-Rich Gold Clusters Stabilized by Poly(vinylpyridines) as Robust and Active Oxidation Catalysts. <i>Langmuir</i> , 2020 , 36, 7844-7849	4	6
20	Collision-Induced Reductive Elimination of 1,3-Diynes from $[MAu_{24}(C\#CR)_{18}]_2$ (M = Pd, Pt) Yielding Clusters of Superatoms. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 19119-19125	3.8	6
19	Reduction-resistant $[Au_{25}(cyclohexanethiolate)_{18}]_0$ with an Icosahedral Au ₁₃ Core. <i>Chemistry Letters</i> , 2019 , 48, 885-887	1.7	6
18	Ligand Effects on the Hydrogen Evolution Reaction Catalyzed by Au ₁₃ and $[email\protected]_{12}$: Alkynyl vs Thiolate. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 23226-23230	3.8	5
17	Controlled Synthesis: Size Control. <i>Frontiers of Nanoscience</i> , 2015 , 9, 9-38	0.7	4
16	Synthesis of active, robust and cationic Au cluster catalysts on double metal hydroxide by long-term oxidative aging of Au(SR).. <i>Nanoscale</i> , 2022 ,	7.7	4
15	Metal Substitution Effect on a Three-Dimensional Cyanido-Bridged Fe Spin-Crossover Network. <i>Inorganics</i> , 2017 , 5, 63	2.9	3
14	Few-nm-sized, phase-pure AuSn intermetallic nanoparticles: synthesis and characterization. <i>Dalton Transactions</i> , 2021 , 50, 5177-5183	4.3	2
13	Atomically-ordered Trimetallic Superatoms $M@Au_6Ag_6$ (M = Pd, Pt): Synthesis and Photoluminescence Properties. <i>Chemistry Letters</i> , 2021 , 50, 1419-1422	1.7	2
12	Synergistic Effect in Ir- or Pt-Doped Ru Nanoparticles: Catalytic Hydrogenation of Carbonyl Compounds under Ambient Temperature and H ₂ Pressure. <i>ACS Catalysis</i> , 2021 , 11, 10502-10507	13.1	2
11	NHC-Stabilized Au Nanoclusters and Their Conversion to Au Nanoclusters.. <i>Jacs Au</i> , 2022 , 2, 875-885		2
10	Critical Role of CF Groups in the Electronic Stabilization of $[PdAu(C\#CCH(CF))]$ as Revealed by Gas-Phase Anion Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10417-10424	6.4	1
9	Controlled Dimerization and Bonding Scheme of Icosahedral $M@Au_{12}$ (M=Pd, Pt) Superatoms. <i>Angewandte Chemie</i> , 2021 , 133, 655-659	3.6	1
8	Effects of π -Electron Systems on Optical Activity of Au ₁₁ Clusters Protected by Chiral Diphosphines. <i>Bulletin of the Korean Chemical Society</i> , 2021 , 42, 1265-1268	1.2	1
7	Polymer-Stabilized Au ₃₈ Cluster: Atomically Precise Synthesis by Digestive Ripening and Characterization of the Atomic Structure and Oxidation Catalysis. <i>ACS Catalysis</i> , 2021 , 11, 6550-6558	13.1	1

6	Selective and High-Yield Synthesis of Oblate Superatom [PdAu ₈ (PPh ₃) ₈] ²⁺ . <i>ChemElectroChem</i> , 2016 , 3, 1190-1190	4.3	○
5	Decorating an anisotropic Au core with dendron thiolates: enhancement of optical absorption and photoluminescence. <i>Chemical Communications</i> , 2021 , 57, 12159-12162	5.8	○
4	A Face-to-Face Dimer of Au Superatoms Supported by Interlocked Tridentate Scaffolds Formed in Au S (SR). <i>Angewandte Chemie - International Edition</i> , 2021 , 61, e202113275	16.4	○
3	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> , 2021 , 155, 124312	3.9	○
2	Atomically Precise Synthesis of Chemically Modified Superatoms 2021 , 141-181		
1	Chemically Modified Superatoms: Toward Controlling the Electronic Structures of Chemically Modified Superatoms of Gold and Silver (Small 27/2021). <i>Small</i> , 2021 , 17, 2170136	11	