

Wataru Kurashige

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.

55 papers	3,113 citations	30 h-index	55 g-index
60 ext. papers	3,532 ext. citations	6.6 avg, IF	5.38 L-index

#	Paper	IF	Citations
55	Effect of Ligand on the Electronic State of Gold in Ligand-Protected Gold Clusters Elucidated by X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3143-3149	3.8	3
54	Activation of Water-Splitting Photocatalysts by Loading with Ultrafine Rh/Ir Mixed-Oxide Cocatalyst Nanoparticles. <i>Angewandte Chemie</i> , 2020 , 132, 7142-7148	3.6	2
53	Activation of Water-Splitting Photocatalysts by Loading with Ultrafine Rh-Cr Mixed-Oxide Cocatalyst Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 7076-7082	16.4	27
52	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
51	Understanding and designing one-dimensional assemblies of ligand-protected metal nanoclusters. <i>Materials Horizons</i> , 2020 , 7, 796-803	14.4	31
50	Alumina-supported Pt ₁₇ cluster: controlled loading, geometrical structure, and size-specific catalytic activity for carbon monoxide and propylene oxidation. <i>Nanoscale Advances</i> , 2020 , 2, 669-678	5.1	11
49	Mechanistic Study of Silane Alcoholysis Reactions with Self-Assembled Monolayer-Functionalized Gold Nanoparticle Catalysts. <i>Catalysts</i> , 2020 , 10, 908	4	4
48	Atomic-Level Understanding of the Effect of Heteroatom Doping of the Cocatalyst on Water-Splitting Activity in AuPd or AuPt Alloy Cluster-Loaded BaLa ₄ Ti ₄ O ₁₅ . <i>ACS Applied Energy Materials</i> , 2019 , 2, 4175-4187	6.1	37
47	Dynamic Behavior of Thiolate-Protected Gold/Silver 38-Atom Alloy Clusters in Solution. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13324-13329	3.8	23
46	Carbon-nanotube-based Photocatalysts for Water Splitting in Cooperation with BiVO ₄ and [Co(bpy) ₃] ^{3+/2+} . <i>Chemistry Letters</i> , 2019 , 48, 410-413	1.7	4
45	Toward the Creation of Highly Active Photocatalysts That Convert Methane into Methanol 2019 ,		2
44	Deepening the Understanding of Thiolate-Protected Metal Clusters Using High-Performance Liquid Chromatography. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 664-695	5.1	22
43	Au ₂₅ -Loaded BaLa ₄ Ti ₄ O ₁₅ Water-Splitting Photocatalyst with Enhanced Activity and Durability Produced Using New Chromium Oxide Shell Formation Method. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13669-13681	3.8	45
42	Thiolate-Protected Trimetallic AuAgPd and AuAgPt Alloy Clusters with Controlled Chemical Composition and Metal Positions. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2590-2594	6.4	38
41	Atomic and Isomeric Separation of Thiolate-Protected Alloy Clusters. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4930-4934	6.4	35
40	Hetero-biicosahedral [AuPd(PPh)(SCHPh)Cl] nanocluster: selective synthesis and optical and electrochemical properties. <i>Nanoscale</i> , 2018 , 10, 18969-18979	7.7	35
39	Photo-induced H evolution from water via the dissociation of excitons in water-dispersible single-walled carbon nanotube sensitizers. <i>Chemical Communications</i> , 2018 , 54, 393-396	5.8	6

38	High-performance liquid chromatography mass spectrometry of gold and alloy clusters protected by hydrophilic thiolates. <i>Nanoscale</i> , 2018 , 10, 1641-1649	7.7	30
37	Alloy Clusters: Precise Synthesis and Mixing Effects. <i>Accounts of Chemical Research</i> , 2018 , 51, 3114-3124	24.3	173
36	Separation of Glutathionate-Protected Gold Clusters by Reversed-Phase Ion-Pair High-Performance Liquid Chromatography. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1029-1035	3.9	15
35	[Pt ₁₇ (CO) ₁₂ (PPh ₃) ₈] ⁿ⁺ (n = 1, 2): Synthesis and Geometric and Electronic Structures. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11002-11009	3.8	15
34	SWCNT Photocatalyst for Hydrogen Production from Water upon Photoexcitation of (8, 3) SWCNT at 680-nm Light. <i>Scientific Reports</i> , 2017 , 7, 43445	4.9	21
33	Understanding and Practical Use of Ligand and Metal Exchange Reactions in Thiolate-Protected Metal Clusters to Synthesize Controlled Metal Clusters. <i>Chemical Record</i> , 2017 , 17, 473-484	6.6	40
32	Monodisperse Iridium Clusters Protected by Phenylacetylene: Implication for Size-Dependent Evolution of Binding Sites. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10936-10941	3.8	14
31	Perspective: Exchange reactions in thiolate-protected metal clusters. <i>APL Materials</i> , 2017 , 5, 053201	5.7	21
30	Photoresponsive Gold Clusters 2017 , 109-125		
29	High-resolution separation of thiolate-protected gold clusters by reversed-phase high-performance liquid chromatography. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 4251-65	3.6	47
28	Tuning the electronic structure of thiolate-protected 25-atom clusters by co-substitution with metals having different preferential sites. <i>Dalton Transactions</i> , 2016 , 45, 18064-18068	4.3	41
27	Ligand Exchange Reactions in Thiolate-Protected Au ₂₅ Nanoclusters with Selenolates or Tellurolates: Preferential Exchange Sites and Effects on Electronic Structure. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 25861-25869	3.8	34
26	Halogen adsorbates on polymer-stabilized gold clusters: Mass spectrometric detection and effects on catalysis. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 1656-1661	11.3	11
25	Improvements in the Ligand-Exchange Reactivity of Phenylethanethiolate-Protected Au ₂₅ Nanocluster by Ag or Cu Incorporation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14301-14309	3.8	25
24	Precise synthesis, functionalization and application of thiolate-protected gold clusters. <i>Coordination Chemistry Reviews</i> , 2016 , 320-321, 238-250	23.2	176
23	Hierarchy of bond stiffnesses within icosahedral-based gold clusters protected by thiolates. <i>Nature Communications</i> , 2016 , 7, 10414	17.4	118
22	Controlled Loading of Small Au _n Clusters (n = 10-9) onto BaLa ₄ Ti ₄ O ₁₅ Photocatalysts: Toward an Understanding of Size Effect of Cocatalyst on Water-Splitting Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 11224-11232	3.8	68
21	Controlled Synthesis. <i>Frontiers of Nanoscience</i> , 2015 , 39-71	0.7	1

20	Effect of trimetallization in thiolate-protected Au(24-n)Cu(n)Pd clusters. <i>Nanoscale</i> , 2015 , 7, 10606-12	7.7	45
19	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
18	A novel concept for the synthesis of multiply doped gold clusters [(M@Au(n)M _m)L(k)](q+). <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 4327-31	16.4	30
17	A twisted bi-icosahedral Au(25) cluster enclosed by bulky arenethiolates. <i>Chemical Communications</i> , 2014 , 50, 839-41	5.8	40
16	Recent Progress in the Functionalization Methods of Thiolate-Protected Gold Clusters. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 4134-42	6.4	97
15	Preferential Location of Coinage Metal Dopants (M = Ag or Cu) in [Au ₂₅ M _x (SC ₂ H ₄ Ph) ₁₈] ^x (x ~ 1) As Determined by Extended X-ray Absorption Fine Structure and Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25284-25290	3.8	80
14	Au ₂₅ Clusters Containing Unoxidized Tellurolates in the Ligand Shell. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2072-6	6.4	46
13	Ein neuartiges Konzept zur Synthese mehrfach dotierter Goldcluster [(M@Au _n M _m)L _k] ^{q+} . <i>Angewandte Chemie</i> , 2014 , 126, 4415-4419	3.6	3
12	Selenolate-Protected Au ₃₈ Nanoclusters: Isolation and Structural Characterization. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3181-3185	6.4	68
11	Formation of a [email-protected]12 Superatomic Core in Au ₂₄ Pd ₁ (SC ₁₂ H ₂₅) ₁₈ Probed by ¹⁹⁷ Au Mössbauer and Pd K-Edge EXAFS Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3579-3583	6.4	80
10	Ag ₄₄ (SeR) ₃₀ : A Hollow Cage Silver Cluster with Selenolate Protection. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3351-5	6.4	68
9	Toward the creation of stable, functionalized metal clusters. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18736-51	3.6	88
8	Remarkable enhancement in ligand-exchange reactivity of thiolate-protected Au ₂₅ nanoclusters by single Pd atom doping. <i>Nanoscale</i> , 2013 , 5, 508-12	7.7	97
7	Synthesis of stable Cu(n)Au(25-n) nanoclusters (n = 1-9) using selenolate ligands. <i>Chemical Communications</i> , 2013 , 49, 5447-9	5.8	89
6	Cosensitization Properties of Glutathione-Protected Au ₂₅ Cluster on Ruthenium Dye-Sensitized TiO ₂ Photoelectrode. <i>International Journal of Photoenergy</i> , 2013 , 2013, 1-7	2.1	14
5	Enhancement in Aerobic Alcohol Oxidation Catalysis of Au ₂₅ Clusters by Single Pd Atom Doping. <i>ACS Catalysis</i> , 2012 , 2, 1519-1523	13.1	312
4	Ligand-Induced Stability of Gold Nanoclusters: Thiolate versus Selenolate. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 2649-52	6.4	132
3	Synthesis, Stability, and Photoluminescence Properties of PdAu ₁₀ (PPh ₃) ₈ Cl ₂ Clusters. <i>Journal of Cluster Science</i> , 2012 , 23, 365-374	3	28

2	Isolation and structural characterization of an octaneselenolate-protected Au ₂₅ cluster. <i>Langmuir</i> , 2011 , 27, 12289-92	4	76
1	Isolation, structure, and stability of a dodecanethiolate-protected Pd(1)Au(24) cluster. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 6219-25	3.6	262