Wataru Kurashige

List of Publications by Citations

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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	Enhancement in Aerobic Alcohol Oxidation Catalysis of Au25 Clusters by Single Pd Atom Doping. *ACS Catalysis*, **2012**, 2, 1519-1523	13.1	312
54	A critical size for emergence of nonbulk electronic and geometric structures in dodecanethiolate-protected Au clusters. *Journal of the American Chemical Society*, **2015**, 137, 1206-12	16.4	271
53	Isolation, structure, and stability of a dodecanethiolate-protected Pd(1)Au(24) cluster. *Physical Chemistry Chemical Physics*, **2010**, 12, 6219-25	3.6	262
52	Precise synthesis, functionalization and application of thiolate-protected gold clusters. *Coordination Chemistry Reviews*, **2016**, 320-321, 238-250	23.2	176
51	Alloy Clusters: Precise Synthesis and Mixing Effects. *Accounts of Chemical Research*, **2018**, 51, 3114-3124	24.3	173
50	Ligand-Induced Stability of Gold Nanoclusters: Thiolate versus Selenolate. *Journal of Physical Chemistry Letters*, **2012**, 3, 2649-52	6.4	132
49	Hierarchy of bond stiffnesses within icosahedral-based gold clusters protected by thiolates. *Nature Communications*, **2016**, 7, 10414	17.4	118
48	Recent Progress in the Functionalization Methods of Thiolate-Protected Gold Clusters. *Journal of Physical Chemistry Letters*, **2014**, 5, 4134-42	6.4	97
47	Remarkable enhancement in ligand-exchange reactivity of thiolate-protected Au25 nanoclusters by single Pd atom doping. *Nanoscale*, **2013**, 5, 508-12	7.7	97
46	Synthesis of stable Cu(n)Au(25-n) nanoclusters (n = 1-9) using selenolate ligands. *Chemical Communications*, **2013**, 49, 5447-9	5.8	89
45	Toward the creation of stable, functionalized metal clusters. *Physical Chemistry Chemical Physics*, **2013**, 15, 18736-51	3.6	88
44	Preferential Location of Coinage Metal Dopants (M = Ag or Cu) in [Au25□Mx(SC2H4Ph)18]□(x ~ 1) As Determined by Extended X-ray Absorption Fine Structure and Density Functional Theory Calculations. *Journal of Physical Chemistry C*, **2014**, 118, 25284-25290	3.8	80
43	Formation of a [email□protected]12 Superatomic Core in Au24Pd1(SC12H25)18 Probed by 197Au M□sbauer and Pd K-Edge EXAFS Spectroscopy. *Journal of Physical Chemistry Letters*, **2013**, 4, 3579-3583	6.4	80
42	Isolation and structural characterization of an octaneselenolate-protected Au25 cluster. *Langmuir*, **2011**, 27, 12289-92	4	76
41	Controlled Loading of Small AunClusters (n= 10□39) onto BaLa4Ti4O15Photocatalysts: Toward an Understanding of Size Effect of Cocatalyst on Water-Splitting Photocatalytic Activity. *Journal of Physical Chemistry C*, **2015**, 119, 11224-11232	3.8	68
40	Selenolate-Protected Au38 Nanoclusters: Isolation and Structural Characterization. *Journal of Physical Chemistry Letters*, **2013**, 4, 3181-3185	6.4	68
39	Ag44(SeR)30: A Hollow Cage Silver Cluster with Selenolate Protection. *Journal of Physical Chemistry Letters*, **2013**, 4, 3351-5	6.4	68

38	High-resolution separation of thiolate-protected gold clusters by reversed-phase high-performance liquid chromatography. *Physical Chemistry Chemical Physics*, **2016**, 18, 4251-65	3.6	47
37	Au25 Clusters Containing Unoxidized Tellurolates in the Ligand Shell. *Journal of Physical Chemistry Letters*, **2014**, 5, 2072-6	6.4	46
36	Au25-Loaded BaLa4Ti4O15 Water-Splitting Photocatalyst with Enhanced Activity and Durability Produced Using New Chromium Oxide Shell Formation Method. *Journal of Physical Chemistry C*, **2018**, 122, 13669-13681	3.8	45
35	Effect of trimetallization in thiolate-protected Au(24-n)Cu(n)Pd clusters. *Nanoscale*, **2015**, 7, 10606-12	7.7	45
34	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
33	Understanding and Practical Use of Ligand and Metal Exchange Reactions in Thiolate-Protected Metal Clusters to Synthesize Controlled Metal Clusters. *Chemical Record*, **2017**, 17, 473-484	6.6	40
32	A twisted bi-icosahedral Au(25) cluster enclosed by bulky arenethiolates. *Chemical Communications*, **2014**, 50, 839-41	5.8	40
31	Thiolate-Protected Trimetallic AuAgPd and AuAgPt Alloy Clusters with Controlled Chemical Composition and Metal Positions. *Journal of Physical Chemistry Letters*, **2018**, 9, 2590-2594	6.4	38
30	Atomic-Level Understanding of the Effect of Heteroatom Doping of the Cocatalyst on Water-Splitting Activity in AuPd or AuPt Alloy Cluster-Loaded BaLa4Ti4O15. *ACS Applied Energy Materials*, **2019**, 2, 4175-4187	6.1	37
29	Atomic and Isomeric Separation of Thiolate-Protected Alloy Clusters. *Journal of Physical Chemistry Letters*, **2018**, 9, 4930-4934	6.4	35
28	Hetero-biicosahedral [AuPd(PPh)(SCHPh)Cl] nanocluster: selective synthesis and optical and electrochemical properties. *Nanoscale*, **2018**, 10, 18969-18979	7.7	35
27	Ligand Exchange Reactions in Thiolate-Protected Au25 Nanoclusters with Selenolates or Tellurolates: Preferential Exchange Sites and Effects on Electronic Structure. *Journal of Physical Chemistry C*, **2016**, 120, 25861-25869	3.8	34
26	Understanding and designing one-dimensional assemblies of ligand-protected metal nanoclusters. *Materials Horizons*, **2020**, 7, 796-803	14.4	31
25	A novel concept for the synthesis of multiply doped gold clusters [(M@Au(n)MR(m))L(k)](q+). *Angewandte Chemie - International Edition*, **2014**, 53, 4327-31	16.4	30
24	High-performance liquid chromatography mass spectrometry of gold and alloy clusters protected by hydrophilic thiolates. *Nanoscale*, **2018**, 10, 1641-1649	7.7	30
23	Synthesis, Stability, and Photoluminescence Properties of PdAu10(PPh3)8Cl2 Clusters. *Journal of Cluster Science*, **2012**, 23, 365-374	3	28
22	Activation of Water-Splitting Photocatalysts by Loading with Ultrafine Rh-Cr Mixed-Oxide Cocatalyst Nanoparticles. *Angewandte Chemie - International Edition*, **2020**, 59, 7076-7082	16.4	27
21	Improvements in the Ligand-Exchange Reactivity of Phenylethanethiolate-Protected Au25 Nanocluster by Ag or Cu Incorporation. *Journal of Physical Chemistry C*, **2016**, 120, 14301-14309	3.8	25

20	Dynamic Behavior of Thiolate-Protected Gold–Silver 38-Atom Alloy Clusters in Solution. *Journal of Physical Chemistry C*, **2019**, 123, 13324-13329	3.8	23
19	Deepening the Understanding of Thiolate-Protected Metal Clusters Using High-Performance Liquid Chromatography. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 664-695	5.1	22
18	SWCNT Photocatalyst for Hydrogen Production from Water upon Photoexcitation of (8, 3) SWCNT at 680-nm Light. *Scientific Reports*, **2017**, 7, 43445	4.9	21
17	Perspective: Exchange reactions in thiolate-protected metal clusters. *APL Materials*, **2017**, 5, 053201	5.7	21
16	Separation of Glutathionate-Protected Gold Clusters by Reversed-Phase Ion-Pair High-Performance Liquid Chromatography. *Industrial & Engineering Chemistry Research*, **2017**, 56, 1029-1035	3.9	15
15	[Pt17(CO)12(PPh3)8]n+ (n = 1, 2): Synthesis and Geometric and Electronic Structures. *Journal of Physical Chemistry C*, **2017**, 121, 11002-11009	3.8	15
14	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
13	Cosensitization Properties of Glutathione-Protected Au25Cluster on Ruthenium Dye-Sensitized TiO2Photoelectrode. *International Journal of Photoenergy*, **2013**, 2013, 1-7	2.1	14
12	Electron Microscopic Observation of an Icosahedral Au13 Core in Au25(SePh)18 and Reversible Isomerization between Icosahedral and Face-Centered Cubic Cores in Au144(SC2H4Ph)60. *Journal of Physical Chemistry C*, **2020**, 124, 6907-6912	3.8	12
11	Halogen adsorbates on polymer-stabilized gold clusters: Mass spectrometric detection and effects on catalysis. *Chinese Journal of Catalysis*, **2016**, 37, 1656-1661	11.3	11
10	Alumina-supported Pt17 cluster: controlled loading, geometrical structure, and size-specific catalytic activity for carbon monoxide and propylene oxidation. *Nanoscale Advances*, **2020**, 2, 669-678	5.1	11
9	Photo-induced H evolution from water via the dissociation of excitons in water-dispersible single-walled carbon nanotube sensitizers. *Chemical Communications*, **2018**, 54, 393-396	5.8	6
8	Carbon-nanotube-based Photocatalysts for Water Splitting in Cooperation with BiVO4 and [Co(bpy)3]3+/2+. *Chemistry Letters*, **2019**, 48, 410-413	1.7	4
7	Mechanistic Study of Silane Alcoholysis Reactions with Self-Assembled Monolayer-Functionalized Gold Nanoparticle Catalysts. *Catalysts*, **2020**, 10, 908	4	4
6	Ein neuartiges Konzept zur Synthese mehrfach dotierter Goldcluster [(M@AunM?m)Lk]q+. *Angewandte Chemie*, **2014**, 126, 4415-4419	3.6	3
5	Effect of Ligand on the Electronic State of Gold in Ligand-Protected Gold Clusters Elucidated by X-ray Absorption Spectroscopy. *Journal of Physical Chemistry C*, **2021**, 125, 3143-3149	3.8	3
4	Activation of Water-Splitting Photocatalysts by Loading with Ultrafine Rh–Cr Mixed-Oxide Cocatalyst Nanoparticles. *Angewandte Chemie*, **2020**, 132, 7142-7148	3.6	2
3	Toward the Creation of Highly Active Photocatalysts That Convert Methane into Methanol **2019**,		2

2	Controlled Synthesis. *Frontiers of Nanoscience*, **2015**, 39-71	0.7	1
1	Photoresponsive Gold Clusters **2017**, 109-125		