

Yoshiki Niihori

List of Publications by Citations

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40
papers

1,993
citations

22
h-index

44
g-index

48
ext. papers

2,313
ext. citations

7.1
avg, IF

5.03
L-index

#	Paper	IF	Citations
40	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
39	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
38	Precise synthesis, functionalization and application of thiolate-protected gold clusters. <i>Coordination Chemistry Reviews</i> , 2016 , 320-321, 238-250	23.2	176
37	Alloy Clusters: Precise Synthesis and Mixing Effects. <i>Accounts of Chemical Research</i> , 2018 , 51, 3114-3124	24.3	173
36	Separation of precise compositions of noble metal clusters protected with mixed ligands. <i>Journal of the American Chemical Society</i> , 2013 , 135, 4946-9	16.4	118
35	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
34	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
33	Toward the creation of stable, functionalized metal clusters. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18736-51	3.6	88
32	Understanding Ligand-Exchange Reactions on Thiolate-Protected Gold Clusters by Probing Isomer Distributions Using Reversed-Phase High-Performance Liquid Chromatography. <i>ACS Nano</i> , 2015 , 9, 9347-56	16.7	73
31	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
30	Isolation and structural characterization of magic silver clusters protected by 4-(tert-butyl)benzyl mercaptan. <i>Chemical Communications</i> , 2011 , 47, 5693-5	5.8	57
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	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
27	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
26	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
25	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
24	Advanced use of high-performance liquid chromatography for synthesis of controlled metal clusters. <i>Nanoscale</i> , 2014 , 6, 7889-96	7.7	36

23	Atomic and Isomeric Separation of Thiolate-Protected Alloy Clusters. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4930-4934	6.4	35
22	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
21	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
20	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
19	Dynamic Behavior of Thiolate-Protected GoldSilver 38-Atom Alloy Clusters in Solution. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 13324-13329	3.8	23
18	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
17	Perspective: Exchange reactions in thiolate-protected metal clusters. <i>APL Materials</i> , 2017 , 5, 053201	5.7	21
16	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
15	[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
14	Excited-State Symmetry Breaking of a Symmetrical Donor-Donor Quadrupolar Molecule at a Polymer/Glass Interface. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 14564-14572	3.8	8
13	Single Platinum Atom Doping to Silver Clusters Enables Near-Infrared-to-Blue Photon Upconversion. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2822-2827	16.4	7
12	Impacts of Environmental Rigidity on Photophysical Characteristics and Behaviors of a Quadrupolar Chromophore Revealed by Single-Molecule Fluorescence Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21295-21307	3.8	5
11	Photophysical and Thermodynamic Properties of Ag ₂₉ (BDT) ₁₂ (TPP) _x (x = 0, 1) Clusters in Secondary Ligand Binding-Dissociation Equilibria Unraveled by Photoluminescence Analysis. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5880-5886	3.8	4
10	Nanocluster Science 2017 , 3-32		4
9	Synthesis and Properties of a Cyclohexa-2,7-anthrylene Ethynylene Derivative. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 998-1003	16.4	3
8	Single Platinum Atom Doping to Silver Clusters Enables Near-Infrared-to-Blue Photon Upconversion. <i>Angewandte Chemie</i> , 2021 , 133, 2858-2863	3.6	2
7	Excited-State Symmetry Breaking in a Multiple Multipolar Chromophore Probed by Single-Molecule Fluorescence Imaging and Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 9950-9959	3.4	2
6	Controlled Synthesis. <i>Frontiers of Nanoscience</i> , 2015 , 39-71	0.7	1

5	Elucidation of the Fundamental Properties of Thiolate-protected Metal Clusters by HPLC. <i>Bunseki Kagaku</i> , 2019 , 68, 825-838	0.2	1
4	Starburst-Shaped D- π A Chromophores Possessing a Hexaethynylbenzene Core for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 35739-35749	9.5	1
3	Synthesis and Properties of a Cyclohexa-2,7-anthrylene Ethynylene Derivative. <i>Angewandte Chemie</i> , 2021 , 133, 1011-1016	3.6	0
2	Photoresponsive Gold Clusters 2017 , 109-125		
1	Separation of Phenylethanethiolate-protected Gold-Silver 38-atom Alloy Clusters at Atomic Precision by Reversed-phase High-performance Liquid Chromatography. <i>Bunseki Kagaku</i> , 2019 , 68, 769-776	0.2	0