Yoshiki Niihori

List of Publications by Year
in descending order

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Version: 2024-02-01

46	2,591	257101 24	288905 40
papers	citations	h-index	g-index

48	48	48	1574
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Critical Size for Emergence of Nonbulk Electronic and Geometric Structures in Dodecanethiolate-Protected Au Clusters. Journal of the American Chemical Society, 2015, 137, 1206-1212.	6.6	322
2	Isolation, structure, and stability of a dodecanethiolate-protected Pd1Au24 cluster. Physical Chemistry Chemical Physics, 2010, 12, 6219.	1.3	297
3	Alloy Clusters: Precise Synthesis and Mixing Effects. Accounts of Chemical Research, 2018, 51, 3114-3124.	7.6	257
4	Precise synthesis, functionalization and application of thiolate-protected gold clusters. Coordination Chemistry Reviews, 2016, 320-321, 238-250.	9.5	234
5	Separation of Precise Compositions of Noble Metal Clusters Protected with Mixed Ligands. Journal of the American Chemical Society, 2013, 135, 4946-4949.	6.6	138
6	Remarkable enhancement in ligand-exchange reactivity of thiolate-protected Au₂₅nanoclusters by single Pd atom doping. Nanoscale, 2013, 5, 508-512.	2.8	109
7	Recent Progress in the Functionalization Methods of Thiolate-Protected Gold Clusters. Journal of Physical Chemistry Letters, 2014, 5, 4134-4142.	2.1	109
8	Toward the creation of stable, functionalized metal clusters. Physical Chemistry Chemical Physics, 2013, 15, 18736.	1.3	101
9	Understanding Ligand-Exchange Reactions on Thiolate-Protected Gold Clusters by Probing Isomer Distributions Using Reversed-Phase High-Performance Liquid Chromatography. ACS Nano, 2015, 9, 9347-9356.	7.3	99
10	Controlled Loading of Small Au_n Clusters (n = 10â€“39) onto BaLa₄Ti₄O₁₅ Photocatalysts: Toward an Understanding of Size Effect of Cocatalyst on Water-Splitting Photocatalytic Activity. Journal of Physical Chemistry C, 2015, 119, 11224-11232.	1.5	87
11	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.	1.5	67
12	Isolation and structural characterization of magic silver clusters protected by 4-(tert-butyl)benzyl mercaptan. Chemical Communications, 2011, 47, 5693.	2.2	66
13	High-resolution separation of thiolate-protected gold clusters by reversed-phase high-performance liquid chromatography. Physical Chemistry Chemical Physics, 2016, 18, 4251-4265.	1.3	56
14	Thiolate-Protected Trimetallic Au_{â^¼20}Ag_{â^¼4}Pd and Au_{â^¼20}Ag_{â^¼4}Pt Alloy Clusters with Controlled Chemical Composition and Metal Positions. Journal of Physical Chemistry Letters, 2018, 9, 2590-2594.	2.1	55
15	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.	1.6	51
16	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.	1.5	49
17	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.	2.9	48
18	Atomic and Isomeric Separation of Thiolate-Protected Alloy Clusters. Journal of Physical Chemistry Letters, 2018, 9, 4930-4934.	2.1	48

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19	Advanced use of high-performance liquid chromatography for synthesis of controlled metal clusters. Nanoscale, 2014, 6, 7889-7896.	2.8	46
20	High-performance liquid chromatography mass spectrometry of gold and alloy clusters protected by hydrophilic thiolates. Nanoscale, 2018, 10, 1641-1649.	2.8	42
21	Dynamic Behavior of Thiolate-Protected Goldâ€“Silver 38-Atom Alloy Clusters in Solution. Journal of Physical Chemistry C, 2019, 123, 13324-13329.	1.5	38
22	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.	1.5	34
23	Perspective: Exchange reactions in thiolate-protected metal clusters. APL Materials, 2017, 5, .	2.2	31
24	Deepening the Understanding of Thiolate-Protected Metal Clusters Using High-Performance Liquid Chromatography. Bulletin of the Chemical Society of Japan, 2019, 92, 664-695.	2.0	29
25	[Pt₁₇(CO)₁₂(PPh₃)₈]ⁿ⁺ (n =) Tj ETQq1 1 0.784314 r 11002-11009.	1.5	24
26	Separation of Glutathionate-Protected Gold Clusters by Reversed-Phase Ion-Pair High-Performance Liquid Chromatography. Industrial & Engineering Chemistry Research, 2017, 56, 1029-1035.	1.8	22
27	Photophysical and Thermodynamic Properties of Ag₂₉(BDT)₁₂(TPP)_x (x = 0â€“4) Clusters in Secondary Ligand Bindingâ€“Dissociation Equilibria Unraveled by Photoluminescence Analysis. Journal of Physical Chemistry C, 2020, 124, 5880-5886.	1.5	21
28	Single Platinum Atom Doping to Silver Clusters Enables Nearâ€Infraredâ€toâ€Blue Photon Upconversion. Angewandte Chemie - International Edition, 2021, 60, 2822-2827.	7.2	21
29	Evidence for triplet-state-dominated luminescence in biicosahedral superatomic molecular Au₂₅ clusters. Nanoscale, 2022, 14, 7974-7979.	2.8	16
30	On the Origin of Photoluminescence Enhancement in Biicosahedral Ag_xAu_{25â^’}_x Nanoclusters (xÂ=Â0â€“13) and Their Application to Tripletâ€“Triplet Annihilation Photon Upconversion. Advanced Optical Materials, 2022, 10, .	3.6	13
31	Synthesis and Properties of a Cyclohexaâ€2,7â€anthrylene Ethynylene Derivative. Angewandte Chemie - International Edition, 2021, 60, 998-1003.	7.2	11
32	Excited-State Symmetry Breaking of a Symmetrical Donorâ^Ï€â€“Donor Quadrupolar Molecule at a Polymer/Glass Interface. Journal of Physical Chemistry C, 2019, 123, 14564-14572.	1.5	8
33	Unravelling the origin of dual photoluminescence in Au₂Cu₆ clusters by triplet sensitization and photon upconversion. Journal of Materials Chemistry C, 2022, 10, 4597-4606.	2.7	8
34	Starburst-Shaped Dâ^Ï€â€“A Chromophores Possessing a Hexaethynylbenzene Core for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 35739-35749.	4.0	7
35	Excited-State Symmetry Breaking in a Multiple Multipolar Chromophore Probed by Single-Molecule Fluorescence Imaging and Spectroscopy. Journal of Physical Chemistry B, 2021, 125, 9950-9959.	1.2	7
36	Nanocluster Science. , 2017, , 3-32.		6

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37	Impacts of Environmental Rigidity on Photophysical Characteristics and Behaviors of a Quadrupolar Chromophore Revealed by Single-Molecule Fluorescence Spectroscopic Study. Journal of Physical Chemistry C, 2018, 122, 21295-21307.	1.5	6
38	Single Platinum Atom Doping to Silver Clusters Enables Nearâ€Infraredâ€toâ€Blue Photon Upconversion. Angewandte Chemie, 2021, 133, 2858-2863.	1.6	3
39	Controlled Synthesis. Frontiers of Nanoscience, 2015, , 39-71.	0.3	2
40	Synthesis and Properties of a Cyclohexaâ€2,7â€anthrylene Ethynylene Derivative. Angewandte Chemie, 2021, 133, 1011-1016.	1.6	2
41	Elucidation of the Fundamental Properties of Thiolate-protected Metal Clusters by HPLC. Bunseki Kagaku, 2019, 68, 825-838.	0.1	1
42	Photoresponsive Gold Clusters. , 2017, , 109-125.		0
43	Controlled Thiolate-Protected Gold and Alloy Clusters. , 2017, , .		0
44	Separation of Phenylethanethiolate-protected Gold-Silver 38-atom Alloy Clusters at Atomic Precision by Reversed-phase High-performance Liquid Chromatography. Bunseki Kagaku, 2019, 68, 769-776.	0.1	0
45	Frontispiece: Single Platinum Atom Doping to Silver Clusters Enables Nearâ€Infraredâ€toâ€Blue Photon Upconversion. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
46	Frontispiz: Single Platinum Atom Doping to Silver Clusters Enables Nearâ€Infraredâ€toâ€Blue Photon Upconversion. Angewandte Chemie, 2021, 133, .	1.6	0