Atsushi Nakajima

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8450004/publications.pdf

Version: 2024-02-01

		567281	580821
45	711	15	25
papers	citations	h-index	g-index

45	45	45	665
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Synthesis and Characterization of Metal-Encapsulating Si₁₆ Cage Superatoms. Accounts of Chemical Research, 2018, 51, 1735-1745.	15.6	63
2	Photoelectron spectroscopy of binary Au cluster anions with a doped metal atom: AunMâ˜ (n=2â€“7), M=Pd, Ni, Zn, Cu, and Mg. Chemical Physics Letters, 2006, 422, 62-66.	2.6	61
3	Formation of a superatom monolayer using gas-phase-synthesized Ta@Si16nanocluster ions. Nanoscale, 2014, 6, 14702-14707.	5.6	61
4	Development of Integrated Dryâ€“Wet Synthesis Method for Metal Encapsulating Silicon Cage Superatoms of M@Si₁₆ (M = Ti and Ta). Journal of Physical Chemistry C, 2017, 121, 20507-20516.	3.1	57
5	Magnetic properties of lanthanide organometallic sandwich complexes produced in a molecular beam. Polyhedron, 2005, 24, 2341-2345.	2.2	36
6	A designer ligand field for blue-green luminescence of organoeuropium(<scp>ii</scp>) sandwich complexes with cyclononatetraenyl ligands. Chemical Communications, 2017, 53, 6557-6560.	4.1	36
7	Photoelectron spectroscopy of pyrene cluster anions, (pyrene)nâ˜ (n=1â€“20). Chemical Physics Letters, 2004, 389, 279-283.	2.6	31
8	Geometric and electronic properties of Si-atom doped Al clusters: robustness of binary superatoms against charging. Physical Chemistry Chemical Physics, 2017, 19, 20401-20411.	2.8	23
9	Imaging and Characterizing Long-Range Surface Plasmon Polaritons Propagating in a Submillimeter Scale by Two-Color Two-Photon Photoelectron Emission Microscopy. Plasmonics, 2013, 8, 1411-1415.	3.4	22
10	Size-Effect on Electrochemical Hydrogen Evolution Reaction by Single-Size Platinum Nanocluster Catalysts Immobilized on Strontium Titanate. Topics in Catalysis, 2018, 61, 126-135.	2.8	22
11	Enhanced oxygen reduction activity of platinum subnanocluster catalysts through charge redistribution. Chemical Communications, 2019, 55, 12603-12606.	4.1	22
12	Photoexcited State Confinement in Two-Dimensional Crystalline Anthracene Monolayer at Room Temperature. ACS Nano, 2017, 11, 4307-4314.	14.6	17
13	Oxidative reactivity of alkali-like superatoms of group 5 metal-encapsulating Si16 cage nanoclusters. Communications Chemistry, 2018, 1, .	4.5	17
14	Confined Hot Electron Relaxation at the Molecular Heterointerface of the Size-Selected Plasmonic Noble Metal Nanocluster and Layered C₆₀. ACS Nano, 2021, 15, 1199-1209.	14.6	17
15	Geometric, electronic, and optical properties of a boron-doped aluminum cluster of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>B</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub><mml:none /><mml:mrow><mml:mo>-</mml:mo></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>: A density. Chemical Physics Letters, 2013, 582, 100-104.	2.6	16
16	Nitric oxide oxidation of a Ta encapsulating Si cage nanocluster superatom (Ta@Si₁₆) deposited on an organic substrate; a Si cage collapse indicator. Physical Chemistry Chemical Physics, 2018, 20, 26273-26279.	2.8	16
17	Classification and characterization of gold and nickel nanoparticles with a differential mobility analyzer. Science and Technology of Advanced Materials, 2006, 7, 209-215.	6.1	15
18	Formation and Control of Ultrasharp Metal/Molecule Interfaces by Controlled Immobilization of Sizeâ€Selected Metal Nanoclusters onto Organic Molecular Films. Advanced Functional Materials, 2014, 24, 1202-1210.	14.9	14

#	Article	IF	Citations
19	Two-photon photoelectron emission microscopy for surface plasmon polaritons at the Au(111) surface decorated with alkanethiolate self-assembled monolayers. Physical Chemistry Chemical Physics, 2017, 19, 13455-13461.	2.8	13
20	Al13â˜' and B@Al12â˜' superatoms on a molecularly decorated substrate. Nature Communications, 2022, 13, 1336.	12.8	13
21	Characterization of floating-gate memory device with thiolate-protected gold and gold-palladium nanoclusters. AIP Advances, 2018, 8, .	1.3	12
22	Visualization of Surface Plasmons Propagating at the Buried Organic/Metal Interface with Silver Nanocluster Sensitizers. ACS Nano, 2020, 14, 2044-2052.	14.6	10
23	Electronic structure of hydrogen-terminated silicon surfaces [H-Si(111)] studied by two-photon photoemission. Applied Physics A: Materials Science and Processing, 2010, 98, 735-743.	2.3	9
24	Excited electron dynamics at ferrocene-terminated self-assembled monolayers on Au(111): Lengthened lifetime of image potential state. Chemical Physics Letters, 2013, 561-562, 131-136.	2.6	9
25	Physical properties of mononuclear organoeuropium sandwich complexes ligated by cyclooctatetraene and bis(trimethylsilyl)cyclooctatetraene. Chemical Physics Letters, 2014, 595-596, 144-150.	2.6	9
26	Anion Photoelectron Spectroscopy of Rubrene: Molecular Insights into Singlet Fission Energetics. Journal of Physical Chemistry C, 2017, 121, 20680-20686.	3.1	9
27	Highly Dispersive Nearly Free Electron Bands at a 2D-Assembled C₆₀ Monolayer. Journal of Physical Chemistry C, 2020, 124, 734-741.	3.1	8
28	Interfacial Oxidation of Ta-Encapsulating Si₁₆ Cage Superatoms (Ta@Si₁₆) on Strontium Titanate Substrates. Journal of Physical Chemistry C, 2020, 124, 28108-28115.	3.1	7
29	Two-photon photoemission spectroscopy for silver nanoparticles on a hydrogen-terminated Si(1 1 1) surface: Metal nanoparticle-enhanced photoemission. Chemical Physics Letters, 2010, 489, 69-74.	2.6	6
30	Multiple-decker and ring sandwich formation of manganeseâ€“benzene organometallic cluster anions: Mn_nBz_n^{â˜'} (n = 1â€“5 and 18). Physical Chemistry Chemical Physics, 2016, 18, 26049-26056.	2.8	6
31	Highly Ordered Self-Assembled Monolayers of Carboxy- and Ester-Terminated Alkanethiols on Au(111): Infrared Absorption and Hyperthermal-Deposition Experiments with Cr(benzene)₂ Ions. Journal of Physical Chemistry C, 2017, 121, 6736-6747.	3.1	6
32	Liquid-phase catalysis by single-size palladium nanoclusters supported on strontium titanate: size-specific catalysts for Suzukiâ€“Miyaura coupling. Catalysis Science and Technology, 2018, 8, 5827-5834.	4.1	6
33	Platinum nanocluster catalysts supported on Marimo carbon via scalable dry deposition synthesis. RSC Advances, 2021, 11, 39216-39222.	3.6	6
34	Enhanced oxygen reduction activity of size-selected platinum subnanocluster catalysts: Pt_n (n = 3â€“9). Catalysis Science and Technology, 2022, 12, 1400-1407.	4.1	6
35	An atomic force microscope study of vanadium-benzene sandwich clusters soft-landed on self-assembled monolayers. European Physical Journal D, 2009, 52, 103-106.	1.3	5
36	Molecularly Designed Clusterâ€“Surface Interaction for Halogen-like and Alkali-like Metal-Encapsulating Silicon Cage Superatoms on n- and p-Type Organic Substrates. Journal of Physical Chemistry C, 2022, 126, 10889-10899.	3.1	5

#	Article	IF	Citations
37	Energy Level Alignment of Organic Molecules with Chemically Modified Alkanethiolate Self-Assembled Monolayers. Journal of Physical Chemistry C, 2017, 121, 27399-27405.	3.1	4
38	Vibrational Spectra of Thiolate-Protected Gold Nanocluster with Infrared Reflection Absorption Spectroscopy: Size- and Temperature-Dependent Ordering Behavior of Organic Monolayer. Journal of Physical Chemistry C, 2020, 124, 363-371.	3.1	4
39	The stability of binary Al12X nanoclusters (Xâ€‰â€‰=â€‰â€‰Sc and Ti): superatom or Wadeâ€™s polyhedron. Journal of Physics Condensed Matter, 2018, 30, 494004.	1.8	3
40	Size-Dependent Oxidative Stability of Silicon Nanoclusters Mixed with a Tantalum Atom. Journal of Physical Chemistry C, 2022, 126, 4423-4432.	3.1	3
41	Dual IR laser shattering of a water microdroplet. Applied Physics A: Materials Science and Processing, 2012, 109, 31-37.	2.3	2
42	Formation of Highly Ordered Semiconducting Anthracene Monolayer Rigidly Connected to Insulating Alkanethiolate Thin Film. Journal of Physical Chemistry C, 2018, 122, 26080-26087.	3.1	2
43	Wavelength Dependence of Water Microdroplet Shattering with Dual IR Lasers and Dye Sensitization. Zeitschrift Fur Physikalische Chemie, 2014, 228, 459-470.	2.8	1
44	Occupied and Unoccupied Levels of Half-Fluorinated and Perfluorinated Rubrene Thin Films Probed by One- and Two-Photon Photoemission. Journal of Physical Chemistry C, 2020, 124, 12409-12416.	3.1	1
45	Formation of Superatom Monolayer Using Nanocluster Ion Source Based on High-Power Impulse Magnetron Sputtering. , 2018, , 442-451.		0