Sakiat Hossain

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/9132552/publications.pdf

Version: 2024-02-01

47 papers	2,114 citations	201385 27 h-index	233125 45 g-index
50 all docs	50 docs citations	50 times ranked	1439 citing authors

#	Article	IF	Citations
1	Alloy Clusters: Precise Synthesis and Mixing Effects. Accounts of Chemical Research, 2018, 51, 3114-3124.	7.6	257
2	Rhombus-Shaped Tetranuclear [Ln₄] Complexes [Ln = Dy(III) and Ho(III)]: Synthesis, Structure, and SMM Behavior. Inorganic Chemistry, 2013, 52, 6346-6353.	1.9	136
3	Novel Chemosensor for the Visual Detection of Copper(II) in Aqueous Solution at the ppm Level. Inorganic Chemistry, 2012, 51, 8664-8666.	1.9	106
4	Tetranuclear Lanthanide (III) Complexes Containing Dimeric Subunits: Single-Molecule Magnet Behavior for the Dy₄ Analogue. Inorganic Chemistry, 2013, 52, 11956-11965.	1.9	95
5	Gold nanoclusters as electrocatalysts: size, ligands, heteroatom doping, and charge dependences. Nanoscale, 2020, 12, 9969-9979.	2.8	80
6	Creation of Highâ€Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster. Angewandte Chemie - International Edition, 2021, 60, 21340-21350.	7.2	74
7	Thiolateâ€Protected Metal Nanoclusters: Recent Development in Synthesis, Understanding of Reaction, and Application in Energy and Environmental Field. Small, 2021, 17, e2005328.	5.2	73
8	Molecular Magnets Based on Homometallic Hexanuclear Lanthanide(III) Complexes. Inorganic Chemistry, 2014, 53, 5020-5028.	1.9	71
9	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
10	Controlled colloidal metal nanoparticles and nanoclusters: recent applications as cocatalysts for improving photocatalytic water-splitting activity. Journal of Materials Chemistry A, 2020, 8, 16081-16113.	5.2	66
11	Atomically Precise Alloy Nanoclusters. Chemistry - A European Journal, 2020, 26, 16150-16193.	1.7	63
12	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.	2.5	61
13	One-, Two-, and Three-Dimensional Self-Assembly of Atomically Precise Metal Nanoclusters. Nanomaterials, 2020, 10, 1105.	1.9	61
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	Understanding and designing one-dimensional assemblies of ligand-protected metal nanoclusters. Materials Horizons, 2020, 7, 796-803.	6.4	52
16	Toward the creation of high-performance heterogeneous catalysts by controlled ligand desorption from atomically precise metal nanoclusters. Nanoscale Horizons, 2021, 6, 409-448.	4.1	52
17	Hetero-biicosahedral [Au₂₄Pd(PPh₃)₁₀(SC₂H₄Ph)₅Cl₂]⁺ nanocluster: selective synthesis and optical and electrochemical properties. Nanoscale, 2018, 10, 18969-18979.	2.8	51
18	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

#	Article	IF	Citations
19	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
20	Atomic and Isomeric Separation of Thiolate-Protected Alloy Clusters. Journal of Physical Chemistry Letters, 2018, 9, 4930-4934.	2.1	48
21	Activation of Waterâ€Splitting Photocatalysts by Loading with Ultrafine Rhâ€“Cr Mixedâ€Oxide Cocatalyst Nanoparticles. Angewandte Chemie - International Edition, 2020, 59, 7076-7082.	7.2	48
22	Elucidating ligand effects in thiolate-protected metal clusters using Au₂₄Pt(TBBT)₁₈ as a model cluster. Nanoscale, 2019, 11, 22089-22098.	2.8	46
23	High-performance liquid chromatography mass spectrometry of gold and alloy clusters protected by hydrophilic thiolates. Nanoscale, 2018, 10, 1641-1649.	2.8	42
24	Atomic-level separation of thiolate-protected metal clusters. Nanoscale, 2020, 12, 8017-8039.	2.8	39
25	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
26	Perspective: Exchange reactions in thiolate-protected metal clusters. APL Materials, 2017, 5, .	2.2	31
27	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
28	Multicomponent Assembly of Anionic and Neutral Decanuclear Copper(II) Phosphonate Cages. Inorganic Chemistry, 2012, 51, 5605-5616.	1.9	26
29	Determining and Controlling Cu-Substitution Sites in Thiolate-Protected Gold-Based 25-Atom Alloy Nanoclusters. Journal of Physical Chemistry C, 2020, 124, 22304-22313.	1.5	26
30	[Pt₁₇(CO)₁₂(PPh₃)₈]ⁿ⁺ (n =) Tj ETQq0 0 0 rgBT /Overlo 11002-11009.	1.5	24
31	Tetranuclear Lanthanide(III) Complexes Containing a Squareâ€Grid Core: Synthesis, Structure, and Magnetism. European Journal of Inorganic Chemistry, 2016, 2016, 4683-4692.	1.0	23
32	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
33	Synthesis, Structure, and Magnetic Properties of a Family of Heterometallic Pentanuclear [Co4Ln] (Ln) Tj ETQq1 1 0.784314 rgBT /Over	1.0	21
34	Heterometallic Pentanuclear [Ni₄Ln] (Ln^{III} = Gd, Tb, Dy, Ho) Complexes: Accidental Orthogonality Leading to Ferromagnetic Interactions. European Journal of Inorganic Chemistry, 2014, 2014, 3393-3400.	1.0	20
35	Î³-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.	2.2	16
36	[Ag23Pd2(PPh3)10Cl7]: A new family of synthesizable bi-icosahedral superatomic molecules. Journal of Chemical Physics, 2021, 155, 024302.	1.2	15

#	Article	IF	Citations
37	Selective formation of [Au₂₃(SPh^tBu)₁₇]⁰, [Au₂₆Pd(SPh^tBu)₂₀]⁰ and [Au₂₄Pt(SC₂H₄Ph)₇(SPh^tBu)₁₁]⁰ by controlling ligand-exchange reaction. Chemical Science, 2022, 13, 5546-5556.	3.7	14
38	Creation of Highâ€Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster. Angewandte Chemie, 2021, 133, 21510-21520.	1.6	12
39	Simple and high-yield preparation of carbon-black-supported â^¼1 nm platinum nanoclusters and their oxygen reduction reactivity. Nanoscale, 2021, 13, 14679-14687.	2.8	12
40	Carbophosphazene-Based Multisite Coordination Ligands: Metalation Studies on the Pyridyloxy Carbophosphazene, [NC(NMe2)]2[NP(p-OC5H4N)2]. Crystal Growth and Design, 2011, 11, 1512-1519.	1.4	10
41	Atomically Precise Alloy Nanoclusters. Chemistry - A European Journal, 2020, 26, 16149-16149.	1.7	10
42	Supported, â^¼1-nm-Sized Platinum Clusters: Controlled Preparation and Enhanced Catalytic Activity. Bulletin of the Chemical Society of Japan, 2021, 94, 2853-2870.	2.0	10
43	Activation of Waterâ€Splitting Photocatalysts by Loading with Ultrafine Rhâ€“Cr Mixedâ€Oxide Cocatalyst Nanoparticles. Angewandte Chemie, 2020, 132, 7142-7148.	1.6	7
44	Precise synthesis of platinum and alloy clusters and elucidation of their structures. AIP Conference Proceedings, 2019, , .	0.3	5
45	Frontispiece: Atomically Precise Alloy Nanoclusters. Chemistry - A European Journal, 2020, 26, .	1.7	1
46	Innentitelbild: Creation of Highâ€Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster (Angew. Chem. 39/2021). Angewandte Chemie, 2021, 133, 21242-21242.	1.6	0
47	Metal Nanoclusters: Thiolateâ€Protected Metal Nanoclusters: Recent Development in Synthesis, Understanding of Reaction, and Application in Energy and Environmental Field (Small 27/2021). Small, 2021, 17, 2170138.	5.2	0