

Sakiat Hossain

List of Publications by Year in descending order

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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	Selective formation of [Au ₂₃ (SPh ₁₇) ₀], [Au ₂₆ Pd(SPh ₂₀) ₀] and [Au ₂₄ Pt(SC ₂ H ₄ Ph) ₇ (SPh ₁₁) ₀] by controlling ligand-exchange reaction. <i>Chemical Science</i> , 2022, 13, 5546-5556.	3.7	14
2	Toward the creation of high-performance heterogeneous catalysts by controlled ligand desorption from atomically precise metal nanoclusters. <i>Nanoscale Horizons</i> , 2021, 6, 409-448.	4.1	52
3	Thiolate-Protected Metal Nanoclusters: Recent Development in Synthesis, Understanding of Reaction, and Application in Energy and Environmental Field. <i>Small</i> , 2021, 17, e2005328.	5.2	73
4	Innentitelbild: Creation of High-Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster (<i>Angew. Chem.</i> 39/2021). <i>Angewandte Chemie</i> , 2021, 133, 21242-21242.	1.6	0
5	[Ag ₂₃ Pd ₂ (PPh ₃) ₁₀ Cl ₇]: A new family of synthesizable bi-icosahedral superatomic molecules. <i>Journal of Chemical Physics</i> , 2021, 155, 024302.	1.2	15
6	Creation of High-Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster. <i>Angewandte Chemie</i> , 2021, 133, 21510-21520.	1.6	12
7	Creation of High-Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21340-21350.	7.2	74
8	Metal Nanoclusters: Thiolate-Protected Metal Nanoclusters: Recent Development in Synthesis, Understanding of Reaction, and Application in Energy and Environmental Field (<i>Small</i> 27/2021). <i>Small</i> , 2021, 17, 2170138.	5.2	0
9	Simple and high-yield preparation of carbon-black-supported ~ 41 nm platinum nanoclusters and their oxygen reduction reactivity. <i>Nanoscale</i> , 2021, 13, 14679-14687.	2.8	12
10	Supported, ~ 41 -nm-Sized Platinum Clusters: Controlled Preparation and Enhanced Catalytic Activity. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 2853-2870.	2.0	10
11	Understanding and designing one-dimensional assemblies of ligand-protected metal nanoclusters. <i>Materials Horizons</i> , 2020, 7, 796-803.	6.4	52
12	γ -Alumina-supported Pt ₁₇ cluster: controlled loading, geometrical structure, and size-specific catalytic activity for carbon monoxide and propylene oxidation. <i>Nanoscale Advances</i> , 2020, 2, 669-678.	2.2	16
13	Controlled colloidal metal nanoparticles and nanoclusters: recent applications as cocatalysts for improving photocatalytic water-splitting activity. <i>Journal of Materials Chemistry A</i> , 2020, 8, 16081-16113.	5.2	66
14	Determining and Controlling Cu-Substitution Sites in Thiolate-Protected Gold-Based 25-Atom Alloy Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2020, 124, 22304-22313.	1.5	26
15	Atomically Precise Alloy Nanoclusters. <i>Chemistry - A European Journal</i> , 2020, 26, 16149-16149.	1.7	10
16	Frontispiece: Atomically Precise Alloy Nanoclusters. <i>Chemistry - A European Journal</i> , 2020, 26, .	1.7	1
17	Atomically Precise Alloy Nanoclusters. <i>Chemistry - A European Journal</i> , 2020, 26, 16150-16193.	1.7	63
18	One-, Two-, and Three-Dimensional Self-Assembly of Atomically Precise Metal Nanoclusters. <i>Nanomaterials</i> , 2020, 10, 1105.	1.9	61

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19	Activation of Water-Splitting Photocatalysts by Loading with Ultrafine Rh-Cr Mixed-Oxide Cocatalyst Nanoparticles. <i>Angewandte Chemie</i> , 2020, 132, 7142-7148.	1.6	7
20	Gold nanoclusters as electrocatalysts: size, ligands, heteroatom doping, and charge dependences. <i>Nanoscale</i> , 2020, 12, 9969-9979.	2.8	80
21	Activation of Water-Splitting Photocatalysts by Loading with Ultrafine Rh-Cr Mixed-Oxide Cocatalyst Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 7076-7082.	7.2	48
22	Atomic-level separation of thiolate-protected metal clusters. <i>Nanoscale</i> , 2020, 12, 8017-8039.	2.8	39
23	Atomic-Level Understanding of the Effect of Heteroatom Doping of the Cocatalyst on Water-Splitting Activity in AuPd or AuPt Alloy Cluster-Loaded BaLa ₄ Ti ₄ O ₁₅ . <i>ACS Applied Energy Materials</i> , 2019, 2, 4175-4187.	2.5	61
24	Dynamic Behavior of Thiolate-Protected Gold-Silver 38-Atom Alloy Clusters in Solution. <i>Journal of Physical Chemistry C</i> , 2019, 123, 13324-13329.	1.5	38
25	Precise synthesis of platinum and alloy clusters and elucidation of their structures. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	5
26	Elucidating ligand effects in thiolate-protected metal clusters using Au ₂₄ Pt(TBBT) ₁₈ as a model cluster. <i>Nanoscale</i> , 2019, 11, 22089-22098.	2.8	46
27	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.	2.0	29
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.	1.5	67
29	Thiolate-Protected Trimetallic Au _{1/20} Ag _{1/4} Pd and Au _{1/20} Ag _{1/4} Pt Alloy Clusters with Controlled Chemical Composition and Metal Positions. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2590-2594.	2.1	55
30	High-performance liquid chromatography mass spectrometry of gold and alloy clusters protected by hydrophilic thiolates. <i>Nanoscale</i> , 2018, 10, 1641-1649.	2.8	42
31	Alloy Clusters: Precise Synthesis and Mixing Effects. <i>Accounts of Chemical Research</i> , 2018, 51, 3114-3124.	7.6	257
32	Atomic and Isomeric Separation of Thiolate-Protected Alloy Clusters. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4930-4934.	2.1	48
33	Hetero-biicosahedral [Au ₂₄ Pd(PPh ₃) ₁₀ (SC ₂ H ₄ Ph) ₅ Cl ₂] ⁺ nanocluster: selective synthesis and optical and electrochemical properties. <i>Nanoscale</i> , 2018, 10, 18969-18979.	2.8	51
34	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.	1.8	22
35	[Pt ₁₇ (CO) ₁₂ (PPh ₃) ₈] ⁺ (<i>n</i> = 1) (<i>n</i> = 1) Tj ETQq1 1 0.784314 rgs	1.5	24
36	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.	2.9	48

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37	Perspective: Exchange reactions in thiolate-protected metal clusters. <i>APL Materials</i> , 2017, 5, .	2.2	31
38	Tetranuclear Lanthanide(III) Complexes Containing a Square-Grid Core: Synthesis, Structure, and Magnetism. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 4683-4692.	1.0	23
39	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.	1.5	49
40	Heterometallic Pentanuclear [Ni ₄ Ln] (Ln ^{III} = Gd, Tb, Dy, Ho) Complexes: Accidental Orthogonality Leading to Ferromagnetic Interactions. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3393-3400.	1.0	20
41	Molecular Magnets Based on Homometallic Hexanuclear Lanthanide(III) Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 5020-5028.	1.9	71
42	Tetranuclear Lanthanide (III) Complexes Containing Dimeric Subunits: Single-Molecule Magnet Behavior for the Dy ₄ Analogue. <i>Inorganic Chemistry</i> , 2013, 52, 11956-11965.	1.9	95
43	<i>rhombus</i> -Shaped Tetranuclear [Ln ₄] Complexes [Ln = Dy(III) and Ho(III)]: Synthesis, Structure, and SMM Behavior. <i>Inorganic Chemistry</i> , 2013, 52, 6346-6353.	1.9	136
44	Synthesis, Structure, and Magnetic Properties of a Family of Heterometallic Pentanuclear [Co ₄ Ln] (Ln) Complexes. <i>Inorganic Chemistry</i> , 2012, 51, 8664-8666.	1.8	21
45	Novel Chemosensor for the Visual Detection of Copper(II) in Aqueous Solution at the ppm Level. <i>Inorganic Chemistry</i> , 2012, 51, 8664-8666.	1.9	106
46	Multicomponent Assembly of Anionic and Neutral Decanuclear Copper(II) Phosphonate Cages. <i>Inorganic Chemistry</i> , 2012, 51, 5605-5616.	1.9	26
47	Carbophosphazene-Based Multisite Coordination Ligands: Metalation Studies on the Pyridyloxy Carbophosphazene, [NC(NMe ₂) ₂ NP(p-OC ₅ H ₄ N) ₂]. <i>Crystal Growth and Design</i> , 2011, 11, 1512-1519.	1.4	10