Sakiat Hossain

List of Publications by Citations

46 papers	1,370 citations	23 h-index	36 g-index
50 ext. papers	1,750 ext. citations	6.6 avg, IF	4.86 L-index

#	Paper	IF	Citations
46	Alloy Clusters: Precise Synthesis and Mixing Effects. *Accounts of Chemical Research*, **2018**, 51, 3114-3124	24.3	173
45	Rhombus-shaped tetranuclear [Ln4] complexes [Ln = Dy(III) and Ho(III)]: synthesis, structure, and SMM behavior. *Inorganic Chemistry*, **2013**, 52, 6346-53	5.1	126
44	Novel chemosensor for the visual detection of copper(II) in aqueous solution at the ppm level. *Inorganic Chemistry*, **2012**, 51, 8664-6	5.1	95
43	Tetranuclear lanthanide (III) complexes containing dimeric subunits: single-molecule magnet behavior for the Dy4 analogue. *Inorganic Chemistry*, **2013**, 52, 11956-65	5.1	84
42	Molecular magnets based on homometallic hexanuclear lanthanide(III) complexes. *Inorganic Chemistry*, **2014**, 53, 5020-8	5.1	63
41	Gold nanoclusters as electrocatalysts: size, ligands, heteroatom doping, and charge dependences. *Nanoscale*, **2020**, 12, 9969-9979	7.7	46
40	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	3.8	45
39	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	6.6	40
38	Thiolate-Protected Trimetallic AuAgPd and AuAgPt Alloy Clusters with Controlled Chemical Composition and Metal Positions. *Journal of Physical Chemistry Letters*, **2018**, 9, 2590-2594	6.4	38
37	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	6.1	37
36	Atomically Precise Alloy Nanoclusters. *Chemistry - A European Journal*, **2020**, 26, 16150-16193	4.8	37
35	Atomic and Isomeric Separation of Thiolate-Protected Alloy Clusters. *Journal of Physical Chemistry Letters*, **2018**, 9, 4930-4934	6.4	35
34	Hetero-biicosahedral [AuPd(PPh)(SCHPh)Cl] nanocluster: selective synthesis and optical and electrochemical properties. *Nanoscale*, **2018**, 10, 18969-18979	7.7	35
33	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	3.8	34
32	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	13	33
31	Understanding and designing one-dimensional assemblies of ligand-protected metal nanoclusters. *Materials Horizons*, **2020**, 7, 796-803	14.4	31
30	High-performance liquid chromatography mass spectrometry of gold and alloy clusters protected by hydrophilic thiolates. *Nanoscale*, **2018**, 10, 1641-1649	7.7	30

29	Thiolate-Protected Metal Nanoclusters: Recent Development in Synthesis, Understanding of Reaction, and Application in Energy and Environmental Field. *Small*, **2021**, 17, e2005328	11	28
28	One-, Two-, and Three-Dimensional Self-Assembly of Atomically Precise Metal Nanoclusters. *Nanomaterials*, **2020**, 10,	5.4	27
27	Activation of Water-Splitting Photocatalysts by Loading with Ultrafine Rh-Cr Mixed-Oxide Cocatalyst Nanoparticles. *Angewandte Chemie - International Edition*, **2020**, 59, 7076-7082	16.4	27
26	Elucidating ligand effects in thiolate-protected metal clusters using AuPt(TBBT) as a model cluster. *Nanoscale*, **2019**, 11, 22089-22098	7.7	24
25	Dynamic Behavior of Thiolate-Protected Gold–Silver 38-Atom Alloy Clusters in Solution. *Journal of Physical Chemistry C*, **2019**, 123, 13324-13329	3.8	23
24	Atomic-level separation of thiolate-protected metal clusters. *Nanoscale*, **2020**, 12, 8017-8039	7.7	23
23	Multicomponent assembly of anionic and neutral decanuclear copper(II) phosphonate cages. *Inorganic Chemistry*, **2012**, 51, 5605-16	5.1	23
22	Deepening the Understanding of Thiolate-Protected Metal Clusters Using High-Performance Liquid Chromatography. *Bulletin of the Chemical Society of Japan*, **2019**, 92, 664-695	5.1	22
21	Perspective: Exchange reactions in thiolate-protected metal clusters. *APL Materials*, **2017**, 5, 053201	5.7	21
20	Tetranuclear Lanthanide(III) Complexes Containing a Square-Grid Core: Synthesis, Structure, and Magnetism. *European Journal of Inorganic Chemistry*, **2016**, 2016, 4683-4692	2.3	20
19	Synthesis, Structure, and Magnetic Properties of a Family of Heterometallic Pentanuclear [Co4Ln] (Ln = GdIII, DyIII, TbIII, and HoIII) Assemblies. *European Journal of Inorganic Chemistry*, **2013**, 2013, 4506-4514	2.3	20
18	Creation of High-Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster. *Angewandte Chemie - International Edition*, **2021**, 60, 21340-21350	16.4	17
17	Heterometallic Pentanuclear [Ni4Ln] (LnIII = Gd, Tb, Dy, Ho) Complexes: Accidental Orthogonality Leading to Ferromagnetic Interactions. *European Journal of Inorganic Chemistry*, **2014**, 2014, 3393-3400	2.3	16
16	Separation of Glutathionate-Protected Gold Clusters by Reversed-Phase Ion-Pair High-Performance Liquid Chromatography. *Industrial & Engineering Chemistry Research*, **2017**, 56, 1029-1035	3.9	15
15	[Pt17(CO)12(PPh3)8]n+ (n = 1, 2): Synthesis and Geometric and Electronic Structures. *Journal of Physical Chemistry C*, **2017**, 121, 11002-11009	3.8	15
14	Toward the creation of high-performance heterogeneous catalysts by controlled ligand desorption from atomically precise metal nanoclusters. *Nanoscale Horizons*, **2021**, 6, 409-448	10.8	13
13	Determining and Controlling Cu-Substitution Sites in Thiolate-Protected Gold-Based 25-Atom Alloy Nanoclusters. *Journal of Physical Chemistry C*, **2020**, 124, 22304-22313	3.8	12
12	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	5.1	11

11	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	3.5	10
10	Precise synthesis of platinum and alloy clusters and elucidation of their structures **2019**,		4
9	Simple and high-yield preparation of carbon-black-supported ~1 nm platinum nanoclusters and their oxygen reduction reactivity. *Nanoscale*, **2021**, 13, 14679-14687	7.7	4
8	Supported, ~1-nm-Sized Platinum Clusters: Controlled Preparation and Enhanced Catalytic Activity. *Bulletin of the Chemical Society of Japan*,	5.1	3
7	Atomically Precise Alloy Nanoclusters. *Chemistry - A European Journal*, **2020**, 26, 16149	4.8	2
6	Activation of Water-Splitting Photocatalysts by Loading with Ultrafine Rh□r Mixed-Oxide Cocatalyst Nanoparticles. *Angewandte Chemie*, **2020**, 132, 7142-7148	3.6	2
5	Creation of High-Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster. *Angewandte Chemie*, **2021**, 133, 21510-21520	3.6	2
4	Frontispiece: Atomically Precise Alloy Nanoclusters. *Chemistry - A European Journal*, **2020**, 26,	4.8	1
3	[AgPd(PPh)Cl]: A new family of synthesizable bi-icosahedral superatomic molecules. *Journal of Chemical Physics*, **2021**, 155, 024302	3.9	1
2	Innentitelbild: Creation of High-Performance Heterogeneous Photocatalysts by Controlling Ligand Desorption and Particle Size of Gold Nanocluster (Angew. Chem. 39/2021). *Angewandte Chemie*, **2021**, 133, 21242-21242	3.6	
1	Metal Nanoclusters: Thiolate-Protected Metal Nanoclusters: Recent Development in Synthesis, Understanding of Reaction, and Application in Energy and Environmental Field (Small 27/2021). *Small*, **2021**, 17, 2170138	11	