

Indranath Chakraborty

List of Publications by Citations

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58

papers

3,048

citations

22

h-index

55

g-index

62

ext. papers

3,730

ext. citations

9.9

avg, IF

6.1

L-index

#	Paper	IF	Citations
58	Atomically Precise Clusters of Noble Metals: Emerging Link between Atoms and Nanoparticles. <i>Chemical Reviews</i> , 2017 , 117, 8208-8271	68.1	1195
57	The Role of Ligands in the Chemical Synthesis and Applications of Inorganic Nanoparticles. <i>Chemical Reviews</i> , 2019 , 119, 4819-4880	68.1	375
56	Selected Standard Protocols for the Synthesis, Phase Transfer, and Characterization of Inorganic Colloidal Nanoparticles. <i>Chemistry of Materials</i> , 2017 , 29, 399-461	9.6	176
55	Intercluster Reactions between Au ₂₅ (SR) ₁₈ and Ag ₄₄ (SR) ₃₀ . <i>Journal of the American Chemical Society</i> , 2016 , 138, 140-8	16.4	127
54	The superstable 25 kDa monolayer protected silver nanoparticle: measurements and interpretation as an icosahedral Ag ₁₅₂ (SCH ₂ CH ₂ Ph) ₆₀ cluster. <i>Nano Letters</i> , 2012 , 12, 5861-6	11.5	114
53	Ag ₄₄ (SeR) ₃₀ : A Hollow Cage Silver Cluster with Selenolate Protection. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 3351-5	6.4	68
52	High temperature nucleation and growth of glutathione protected ~Ag ₇₅ clusters. <i>Chemical Communications</i> , 2012 , 48, 6788-90	5.8	67
51	Simultaneous Dehalogenation and Removal of Persistent Halocarbon Pesticides from Water Using Graphene Nanocomposites: A Case Study of Lindane. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1155-1163	8.3	60
50	Luminescent sub-nanometer clusters for metal ion sensing: a new direction in nanosensors. <i>Journal of Hazardous Materials</i> , 2012 , 211-212, 396-403	12.8	57
49	Laser Fragmentation of Colloidal Gold Nanoparticles with High-Intensity Nanosecond Pulses is Driven by a Single-Step Fragmentation Mechanism with a Defined Educt Particle-Size Threshold. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 22125-22136	3.8	56
48	A copper cluster protected with phenylethanethiol. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	51
47	Sunlight mediated synthesis and antibacterial properties of monolayer protected silver clusters. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4059-4064	7.3	49
46	Emergence of metallicity in silver clusters in the 150 atom regime: a study of differently sized silver clusters. <i>Nanoscale</i> , 2014 , 6, 8024-31	7.7	45
45	Atomically Precise Silver Clusters as New SERS Substrates. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2769-2773	6.4	39
44	Protein-Mediated Shape Control of Silver Nanoparticles. <i>Bioconjugate Chemistry</i> , 2018 , 29, 1261-1265	6.3	36
43	In Situ Single-Nanoparticle Spectroscopy Study of Bimetallic Nanostructure Formation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9979-83	16.4	35
42	Quantitative uptake of colloidal particles by cell cultures. <i>Science of the Total Environment</i> , 2016 , 568, 819-828	10.2	33

41	Cluster-Mediated Crossed Bilayer Precision Assemblies of 1D Nanowires. <i>Advanced Materials</i> , 2016 , 28, 2827-33	24	29
40	Protein-Induced Shape Control of Noble Metal Nanoparticles. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801407	4.6	28
39	Tracking stem cells and macrophages with gold and iron oxide nanoparticles ¶The choice of the best suited particles. <i>Applied Materials Today</i> , 2019 , 15, 267-279	6.6	26
38	Blue emitting undecaplatinum clusters. <i>Nanoscale</i> , 2014 , 6, 8561-4	7.7	25
37	Photoluminescence quenching of dye molecules near a resonant silicon nanoparticle. <i>Scientific Reports</i> , 2018 , 8, 6107	4.9	23
36	Ion Exchange Transformation of Magic-Sized Clusters. <i>Chemistry of Materials</i> , 2016 , 28, 8391-8398	9.6	19
35	Protein-Protected Porous Bimetallic AgPt Nanoparticles with pH-Switchable Peroxidase/Catalase-Mimicking Activity 2019 , 1, 310-319		19
34	Assembly and Degradation of Inorganic Nanoparticles in Biological Environments. <i>Bioconjugate Chemistry</i> , 2019 , 30, 2751-2762	6.3	19
33	Isolation and Tandem Mass Spectrometric Identification of a Stable Monolayer Protected Silver-Palladium Alloy Cluster. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3757-62	6.4	19
32	Atomically Precise Noble Metal Clusters Harvest Visible Light to Produce Energy. <i>ChemistrySelect</i> , 2017 , 2, 1454-1463	1.8	18
31	X-ray-Based Techniques to Study the Nano-Bio Interface. <i>ACS Nano</i> , 2021 , 15, 3754-3807	16.7	18
30	Controlled synthesis and characterization of the elusive thiolated Ag55 cluster. <i>Dalton Transactions</i> , 2014 , 43, 17904-7	4.3	16
29	High-Yield Paste-Based Synthesis of Thiolate-Protected Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10964-10970	3.8	15
28	Sustainable Synthesis and Improved Colloidal Stability of Popcorn-Shaped Gold Nanoparticles. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9834-9841	8.3	15
27	Toward a Janus Cluster: Regiospecific Decarboxylation of Ag44(4-MBA)30@Ag Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 15471-15479	3.8	15
26	Evolution of Atomically Precise Silver Clusters to Superlattice Crystals. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 241-243	3.1	13
25	Impact of Ligands on Structural and Optical Properties of Ag Nanoclusters. <i>Journal of the American Chemical Society</i> , 2021 , 143, 9405-9414	16.4	13
24	Investigating Possible Enzymatic Degradation on Polymer Shells around Inorganic Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	12

23	Synthesis of Fluorescent Silver Nanoclusters: Introducing Bottom-Up and Top-Down Approaches to Nanochemistry in a Single Laboratory Class. <i>Journal of Chemical Education</i> , 2020 , 97, 239-243	2.4	12
22	Atomically precise and monolayer protected iridium clusters in solution. <i>RSC Advances</i> , 2016 , 6, 26679-26688	6.8	11
21	Linear Size Contraction of Ligand Protected Ag Clusters by Substituting Ag with Cu. <i>ACS Nano</i> , 2020 , 14, 15064-15070	16.7	11
20	Highly luminescent monolayer protected Ag ₅₆ Se ₁₃ S ₁₅ clusters. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5572-5577	7.1	11
19	Reversible formation of AgI from selenolates. <i>Nanoscale</i> , 2014 , 6, 14190-4	7.7	10
18	Origin of Laser-Induced Colloidal Gold Surface Oxidation and Charge Density, and Its Role in Oxidation Catalysis. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 20981-20990	3.8	10
17	Biodegradation of Bi-Labeled Polymer-Coated Rare-Earth Nanoparticles in Adherent Cell Cultures. <i>Chemistry of Materials</i> , 2020 , 32, 245-254	9.6	9
16	Unusual reactivity of MoS ₂ nanosheets. <i>Nanoscale</i> , 2016 , 8, 10282-90	7.7	7
15	In Situ Single-Nanoparticle Spectroscopy Study of Bimetallic Nanostructure Formation. <i>Angewandte Chemie</i> , 2016 , 128, 10133-10137	3.6	5
14	Surface Engineering of Gold Nanoclusters Protected with 11-Mercaptoundecanoic Acid for Photoluminescence Sensing. <i>ACS Applied Nano Materials</i> , 2021 , 4, 3197-3203	5.6	5
13	Ion-Selective Ligands: How Colloidal Nano- and Micro-Particles Can Introduce New Functionalities. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1307-1317	3.1	5
12	Understanding the Interaction of Glutamate Salts with Serum Albumin Protected Prism-Shaped Silver Nanoparticles toward Glutamate Sensing. <i>Particle and Particle Systems Characterization</i> , 2019 , 36, 1800229	3.1	4
11	Evolution of atomically precise clusters through the eye of mass spectrometry. <i>SPR Nanoscience</i> , 2016 , 343-385	3	4
10	Photoluminescence of Fully Inorganic Colloidal Gold Nanocluster and Their Manipulation Using Surface Charge Effects. <i>Advanced Materials</i> , 2021 , 33, e2101549	24	4
9	Rapid template-guided ligand-free synthesis of ultrasmall Pt nanoclusters with efficient hydrogen evolution reaction activity and their versatile release. <i>Nano Select</i> , 2021 , 2, 758-767	3.1	4
8	Toward Diffusion Measurements of Colloidal Nanoparticles in Biological Environments by Nuclear Magnetic Resonance. <i>Small</i> , 2020 , 16, e2001160	11	3
7	Luminescent silver nanoclusters decorated on ZnO tetrapods: a detailed understanding of their role in photoluminescence features. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 7014-7026	7.1	3
6	Metal nanocluster-based devices: Challenges and opportunities. <i>Aggregate</i> , e132	22.9	2

5	Nonradioactive Cell Assay for the Evaluation of Modular Prostate-Specific Membrane Antigen Targeting Ligands via Inductively Coupled Plasma Mass Spectrometry. <i>Journal of Medicinal Chemistry</i> , 2019 , 62, 10912-10918	8.3	1
4	Mechanistic insights and selected synthetic routes of atomically precise metal nanoclusters. <i>Nano Select</i> , 2021 , 2, 831-846	3.1	1
3	Gold Nanostars: Synthesis, Optical and SERS Analytical Properties. <i>Analysis & Sensing</i> ,		1
2	Quantitative considerations about the size dependence of cellular entry and excretion of colloidal nanoparticles for different cell types.. <i>ChemTexts</i> , 2022 , 8, 9	2.2	0
1	Food-Grade Titanium Dioxide Induces Toxicity in the Nematode <i>Caenorhabditis elegans</i> and Acute Hepatic and Pulmonary Responses in Mice. <i>Nanomaterials</i> , 2022 , 12, 1669	5.4	0