Indranath Chakraborty

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Quantitative considerations about the size dependence of cellular entry and excretion of colloidal nanoparticles for different cell types.. *ChemTexts*, **2022**, 8, 9	2.2	0
57	Food-Grade Titanium Dioxide Induces Toxicity in the Nematode Caenorhabditis elegans and Acute Hepatic and Pulmonary Responses in Mice. *Nanomaterials*, **2022**, 12, 1669	5.4	0
56	X-ray-Based Techniques to Study the Nano-Bio Interface. *ACS Nano*, **2021**, 15, 3754-3807	16.7	18
55	Photoluminescence of Fully Inorganic Colloidal Gold Nanocluster and Their Manipulation Using Surface Charge Effects. *Advanced Materials*, **2021**, 33, e2101549	24	4
54	Impact of Ligands on Structural and Optical Properties of Ag Nanoclusters. *Journal of the American Chemical Society*, **2021**, 143, 9405-9414	16.4	13
53	Luminescent silver nanoclusters decorated on ZnO tetrapods: a detailed understanding of their role in photoluminescence features. *Journal of Materials Chemistry C*, **2021**, 9, 7014-7026	7.1	3
52	Mechanistic insights and selected synthetic routes of atomically precise metal nanoclusters. *Nano Select*, **2021**, 2, 831-846	3.1	1
51	Surface Engineering of Gold Nanoclusters Protected with 11-Mercaptoundecanoic Acid for Photoluminescence Sensing. *ACS Applied Nano Materials*, **2021**, 4, 3197-3203	5.6	5
50	Rapid template-guided ligand-free synthesis of ultrasmall Pt nanoclusters with efficient hydrogen evolution reaction activity and their versatile release. *Nano Select*, **2021**, 2, 758-767	3.1	4
49	Toward Diffusion Measurements of Colloidal Nanoparticles in Biological Environments by Nuclear Magnetic Resonance. *Small*, **2020**, 16, e2001160	11	3
48	Synthesis of Fluorescent Silver Nanoclusters: Introducing Bottom-Up and Top-Down Approaches to Nanochemistry in a Single Laboratory Class. *Journal of Chemical Education*, **2020**, 97, 239-243	2.4	12
47	Biodegradation of Bi-Labeled Polymer-Coated Rare-Earth Nanoparticles in Adherent Cell Cultures. *Chemistry of Materials*, **2020**, 32, 245-254	9.6	9
46	Linear Size Contraction of Ligand Protected Ag Clusters by Substituting Ag with Cu. *ACS Nano*, **2020** , 14, 15064-15070	16.7	11
45	Origin of Laser-Induced Colloidal Gold Surface Oxidation and Charge Density, and Its Role in Oxidation Catalysis. *Journal of Physical Chemistry C*, **2020**, 124, 20981-20990	3.8	10
44	Protein-Induced Shape Control of Noble Metal Nanoparticles. *Advanced Materials Interfaces*, **2019**, 6, 1801407	4.6	28
43	Sustainable Synthesis and Improved Colloidal Stability of Popcorn-Shaped Gold Nanoparticles. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 9834-9841	8.3	15
42	The Role of Ligands in the Chemical Synthesis and Applications of Inorganic Nanoparticles. *Chemical Reviews*, **2019**, 119, 4819-4880	68.1	375

41	Investigating Possible Enzymatic Degradation on Polymer Shells around Inorganic Nanoparticles. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	12
40	Understanding the Interaction of Glutamate Salts with Serum Albumin Protected Prism-Shaped Silver Nanoparticles toward Glutamate Sensing. *Particle and Particle Systems Characterization*, **2019** , 36, 1800229	3.1	4
39	Protein-Protected Porous Bimetallic AgPt Nanoparticles with pH-Switchable Peroxidase/Catalase-Mimicking Activity **2019**, 1, 310-319		19
38	Assembly and Degradation of Inorganic Nanoparticles in Biological Environments. *Bioconjugate Chemistry*, **2019**, 30, 2751-2762	6.3	19
37	Tracking stem cells and macrophages with gold and iron oxide nanoparticles The choice of the best suited particles. *Applied Materials Today*, **2019**, 15, 267-279	6.6	26
36	Nonradioactive Cell Assay for the Evaluation of Modular Prostate-Specific Membrane Antigen Targeting Ligands via Inductively Coupled Plasma Mass Spectrometry. *Journal of Medicinal Chemistry*, **2019**, 62, 10912-10918	8.3	1
35	Protein-Mediated Shape Control of Silver Nanoparticles. *Bioconjugate Chemistry*, **2018**, 29, 1261-1265	6.3	36
34	Photoluminescence quenching of dye molecules near a resonant silicon nanoparticle. *Scientific Reports*, **2018**, 8, 6107	4.9	23
33	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. *Journal of Physical Chemistry C*, **2018**, 122, 22125-22136	3.8	56
32	Ion-Selective Ligands: How Colloidal Nano- and Micro-Particles Can Introduce New Functionalities. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1307-1317	3.1	5
31	Atomically Precise Noble Metal Clusters Harvest Visible Light to Produce Energy. *ChemistrySelect*, **2017**, 2, 1454-1463	1.8	18
30	High-Yield Paste-Based Synthesis of Thiolate-Protected Silver Nanoparticles. *Journal of Physical Chemistry C*, **2017**, 121, 10964-10970	3.8	15
29	Selected Standard Protocols for the Synthesis, Phase Transfer, and Characterization of Inorganic Colloidal Nanoparticles. *Chemistry of Materials*, **2017**, 29, 399-461	9.6	176
28	Atomically Precise Clusters of Noble Metals: Emerging Link between Atoms and Nanoparticles. *Chemical Reviews*, **2017**, 117, 8208-8271	68.1	1195
27	In Situ Single-Nanoparticle Spectroscopy Study of Bimetallic Nanostructure Formation. *Angewandte Chemie*, **2016**, 128, 10133-10137	3.6	5
26	In Situ Single-Nanoparticle Spectroscopy Study of Bimetallic Nanostructure Formation. *Angewandte Chemie - International Edition*, **2016**, 55, 9979-83	16.4	35
25	Ion Exchange Transformation of Magic-Sized Clusters. *Chemistry of Materials*, **2016**, 28, 8391-8398	9.6	19
24	Quantitative uptake of colloidal particles by cell cultures. *Science of the Total Environment*, **2016**, 568, 819-828	10.2	33

23	Intercluster Reactions between Au25(SR)18 and Ag44(SR)30. *Journal of the American Chemical Society*, **2016**, 138, 140-8	16.4	127
22	Atomically precise and monolayer protected iridium clusters in solution. *RSC Advances*, **2016**, 6, 26679-26688	3.7	11
21	Evolution of atomically precise clusters through the eye of mass spectrometry. *SPR Nanoscience*, **2016**, 343-385	3	4
20	Toward a Janus Cluster: Regiospecific Decarboxylation of Ag44(4-MBA)30@Ag Nanoparticles. *Journal of Physical Chemistry C*, **2016**, 120, 15471-15479	3.8	15
19	Cluster-Mediated Crossed Bilayer Precision Assemblies of 1D Nanowires. *Advanced Materials*, **2016**, 28, 2827-33	24	29
18	Highly luminescent monolayer protected Ag56Se13S15 clusters. *Journal of Materials Chemistry C*, **2016**, 4, 5572-5577	7.1	11
17	Unusual reactivity of MoS2 nanosheets. *Nanoscale*, **2016**, 8, 10282-90	7.7	7
16	Simultaneous Dehalogenation and Removal of Persistent Halocarbon Pesticides from Water Using Graphene Nanocomposites: A Case Study of Lindane. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 1155-1163	8.3	60
15	Isolation and Tandem Mass Spectrometric Identification of a Stable Monolayer Protected Silver-Palladium Alloy Cluster. *Journal of Physical Chemistry Letters*, **2014**, 5, 3757-62	6.4	19
14	Blue emitting undecaplatinum clusters. *Nanoscale*, **2014**, 6, 8561-4	7.7	25
13	Reversible formation of Ag□from selenolates. *Nanoscale*, **2014**, 6, 14190-4	7.7	10
12	Emergence of metallicity in silver clusters in the 150 atom regime: a study of differently sized silver clusters. *Nanoscale*, **2014**, 6, 8024-31	7.7	45
11	Controlled synthesis and characterization of the elusive thiolated Ag55 cluster. *Dalton Transactions* , **2014**, 43, 17904-7	4.3	16
10	A copper cluster protected with phenylethanethiol. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	51
9	Sunlight mediated synthesis and antibacterial properties of monolayer protected silver clusters. *Journal of Materials Chemistry B*, **2013**, 1, 4059-4064	7.3	49
8	Atomically Precise Silver Clusters as New SERS Substrates. *Journal of Physical Chemistry Letters*, **2013**, 4, 2769-2773	6.4	39
7	Ag44(SeR)30: A Hollow Cage Silver Cluster with Selenolate Protection. *Journal of Physical Chemistry Letters*, **2013**, 4, 3351-5	6.4	68
6	Evolution of Atomically Precise Silver Clusters to Superlattice Crystals. *Particle and Particle Systems Characterization*, **2013**, 30, 241-243	3.1	13

5	Luminescent sub-nanometer clusters for metal ion sensing: a new direction in nanosensors. *Journal of Hazardous Materials*, **2012**, 211-212, 396-403	12.8	57
4	High temperature nucleation and growth of glutathione protected ~Ag75 clusters. *Chemical Communications*, **2012**, 48, 6788-90	5.8	67
3	The superstable 25 kDa monolayer protected silver nanoparticle: measurements and interpretation as an icosahedral Ag152(SCH2CH2Ph)60 cluster. *Nano Letters*, **2012**, 12, 5861-6	11.5	114
2	Metal nanocluster-based devices: Challenges and opportunities. *Aggregate*,e132	22.9	2
1	Gold Nanostars: Synthesis, Optical and SERS Analytical Properties. *Analysis & Sensing*,		1