

# Soubantika Palchoudhury

## 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.

38 papers	1,137 citations	19 h-index	33 g-index
40 ext. papers	1,299 ext. citations	4.4 avg, IF	4.72 L-index

#	Paper	IF	Citations
38	"How Do We Do This at a Distance?!" A Descriptive Study of Remote Undergraduate Research Programs during COVID-19.. <i>CBE Life Sciences Education</i> , <b>2022</b> , 21, ar1	3.4	4
37	Bionanomaterials for diagnosis and therapy of SARS-CoV-2 <b>2022</b> , 469-489		
36	A Dynamic Light Scattering Approach for Detection of Nanomaterials in Tennessee River. <i>Water Resources Research</i> , <b>2021</b> , 57, e2020WR028687	5.4	0
35	Behavior of engineered nanoparticles in aquatic environmental samples: Current status and challenges. <i>Science of the Total Environment</i> , <b>2021</b> , 793, 148560	10.2	9
34	Multinary copper-based chalcogenide nanocrystal systems from the perspective of device applications. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 3069-3082	5.1	9
33	Understanding nanoparticle flow with a new in vitro experimental and computational approach using hydrogel channels. <i>Beilstein Journal of Nanotechnology</i> , <b>2020</b> , 11, 296-309	3	2
32	Advances in Smart Nanomaterials: Environmental Perspective. <i>Journal of Nanomaterials</i> , <b>2020</b> , 2020, 1-2	3.2	3
31	Modifying Electrical and Magnetic Properties of Single-Walled Carbon Nanotubes by Decorating with Iron Oxide Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2020</b> , 20, 2611-2616	1.3	12
30	Flexible Supercapacitors: A Materials Perspective. <i>Frontiers in Materials</i> , <b>2019</b> , 5,	4	79
29	Integrated experimental and computational approach for nanoparticle flow analysis. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2019</b> , 383, 1615-1621	2.3	3
28	Increased Plant Growth with Hematite Nanoparticle Fertilizer Drop and Determining Nanoparticle Uptake in Plants Using Multimodal Approach. <i>Journal of Nanomaterials</i> , <b>2019</b> , 2019, 1-11	3.2	31
27	Carbon Dots: A Mystic Star in the World of Nanoscience. <i>Journal of Nanomaterials</i> , <b>2019</b> , 2019, 1-19	3.2	53
26	Enhanced legume root growth with pre-soaking in FeO nanoparticle fertilizer.. <i>RSC Advances</i> , <b>2018</b> , 8, 24075-24083	3.7	40
25	Pathways for Gold Nucleation and Growth over Protein Cages. <i>Langmuir</i> , <b>2017</b> , 33, 5925-5931	4	4
24	Self-assembly of P22 protein cages with polyamidoamine dendrimer and inorganic nanoparticles. <i>Journal of Materials Research</i> , <b>2017</b> , 32, 465-472	2.5	8
23	Synthesis and Properties of Magnetic Chalcogenide Nanostructures <b>2017</b> , 191-216		
22	Surface spin canting in Fe <sub>3</sub> O <sub>4</sub> and CoFe <sub>2</sub> O <sub>4</sub> nanoparticles probed by high-resolution electron energy loss spectroscopy. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	12

21	MoS <sub>2</sub> Decorated Carbon Nanofibers as Efficient and Durable Electrocatalyst for Hydrogen Evolution Reaction. <i>Journal of Carbon Research</i> , <b>2017</b> , 3, 33	3.3	26
20	A new family of wurtzite-phase Cu <sub>2</sub> ZnAs <sub>4-x</sub> and CuZn <sub>2</sub> As <sub>4</sub> (A = Al, Ga, In) nanocrystals for solar energy conversion applications. <i>Chemical Communications</i> , <b>2016</b> , 52, 264-7	5.8	21
19	Layer-Structured Copper Antimony Chalcogenides (CuSbSexS <sub>2x</sub> ): Stable Electrode Materials for Supercapacitors. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 379-386	9.6	62
18	Flexible and High Performance Supercapacitors Based on NiCo <sub>2</sub> O <sub>4</sub> for Wide Temperature Range Applications. <i>Scientific Reports</i> , <b>2015</b> , 5, 15265	4.9	85
17	Methods for Measuring Concentration (Mass, Surface Area and Number) of Nanomaterials. <i>Frontiers of Nanoscience</i> , <b>2015</b> , 8, 153-181	0.7	8
16	Layered ternary sulfide CuSbS <sub>2</sub> nanoplates for flexible solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 13263-13274	13	74
15	New insight into high-temperature driven morphology reliant CoMoO <sub>4</sub> flexible supercapacitors. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 6108-6116	3.6	44
14	Selectively self-assembling graphene nanoribbons with shaped iron oxide nanoparticles. <i>RSC Advances</i> , <b>2014</b> , 4, 33127-33133	3.7	7
13	Water-Soluble Anisotropic Iron Oxide Nanoparticles: Dextran-Coated Crystalline Nanoplates and Nanoflowers. <i>Particulate Science and Technology</i> , <b>2014</b> , 32, 224-233	2	4
12	A facile and cost-effective method for separation of oil-water mixtures using polymer-coated iron oxide nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 14558-63	10.3	89
11	Synthesis and Characterization of Iron Oxide Nanoparticles. <i>Advances in Chemical and Materials Engineering Book Series</i> , <b>2014</b> , 89-107	0.2	3
10	DNA Interaction of Pt-Attached Iron Oxide Nanoparticles. <i>IEEE Transactions on Magnetism</i> , <b>2013</b> , 49, 373-376	9.8	7
9	Controlled synthesis of iron oxide nanoplates and nanoflowers. <i>Chemical Communications</i> , <b>2012</b> , 48, 10498-50145	9.8	145
8	Make conjugation simple: a facile approach to integrated nanostructures. <i>Langmuir</i> , <b>2012</b> , 28, 8767-72	4	39
7	Synthesis and growth mechanism of iron oxide nanowhiskers. <i>Nano Letters</i> , <b>2011</b> , 11, 1141-6	11.5	83
6	Water-soluble iron oxide nanoparticles with high stability and selective surface functionality. <i>Langmuir</i> , <b>2011</b> , 27, 8990-7	4	169
5	Synthesis of multiple platinum-attached iron oxide nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 3966		19
4	Synthesis of iron oxide nanoworms. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 07E314	2.5	20

- 3     Platinum attachments on iron oxide nanoparticle surfaces. *Journal of Applied Physics*, **2010**, 107, 09B3112.5     19
- 2     Synthesis and characterization of cellulose acetate-polysulfone blend microfiltration membrane for separation of microbial cells from lactic acid fermentation broth. *Desalination*, **2009**, 249, 802-808     10.3     44
- 1     Introduction to Bio-Inspired Hydrogel and Their Application. *Advances in Chemical and Materials Engineering Book Series*, 133-159     0.2