Soubantika Palchoudhury

List of Publications by Citations

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	Water-soluble iron oxide nanoparticles with high stability and selective surface functionality. *Langmuir*, **2011**, 27, 8990-7	4	169
37	A facile and cost-effective method for separation of oil-water mixtures using polymer-coated iron oxide nanoparticles. *Environmental Science & Technology*, **2014**, 48, 14558-63	10.3	89
36	Flexible and High Performance Supercapacitors Based on NiCo2O4for Wide Temperature Range Applications. *Scientific Reports*, **2015**, 5, 15265	4.9	85
35	Synthesis and growth mechanism of iron oxide nanowhiskers. *Nano Letters*, **2011**, 11, 1141-6	11.5	83
34	Flexible Supercapacitors: A Materials Perspective. *Frontiers in Materials*, **2019**, 5,	4	79
33	Layered ternary sulfide CuSbS2 nanoplates for flexible solid-state supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 13263-13274	13	74
32	Layer-Structured Copper Antimony Chalcogenides (CuSbSexS2□): Stable Electrode Materials for Supercapacitors. *Chemistry of Materials*, **2015**, 27, 379-386	9.6	62
31	Carbon Dots: A Mystic Star in the World of Nanoscience. *Journal of Nanomaterials*, **2019**, 2019, 1-19	3.2	53
30	Controlled synthesis of iron oxide nanoplates and nanoflowers. *Chemical Communications*, **2012**, 48, 10498-501	5.8	45
29	New insight into high-temperature driven morphology reliant CoMoO4 flexible supercapacitors. *New Journal of Chemistry*, **2015**, 39, 6108-6116	3.6	44
28	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
27	Enhanced legume root growth with pre-soaking in □FeO nanoparticle fertilizer.. *RSC Advances*, **2018**, 8, 24075-24083	3.7	40
26	Make conjugation simple: a facile approach to integrated nanostructures. *Langmuir*, **2012**, 28, 8767-72	4	39
25	Increased Plant Growth with Hematite Nanoparticle Fertilizer Drop and Determining Nanoparticle Uptake in Plants Using Multimodal Approach. *Journal of Nanomaterials*, **2019**, 2019, 1-11	3.2	31
24	MoS2 Decorated Carbon Nanofibers as Efficient and Durable Electrocatalyst for Hydrogen Evolution Reaction. *Journal of Carbon Research*, **2017**, 3, 33	3.3	26
23	A new family of wurtzite-phase Cu2ZnAS4-x and CuZn2AS4 (A = Al, Ga, In) nanocrystals for solar energy conversion applications. *Chemical Communications*, **2016**, 52, 264-7	5.8	21
22	Synthesis of iron oxide nanoworms. *Journal of Applied Physics*, **2011**, 109, 07E314	2.5	20

21	Platinum attachments on iron oxide nanoparticle surfaces. *Journal of Applied Physics*, **2010**, 107, 09B311	2.5	19
20	Synthesis of multiple platinum-attached iron oxide nanoparticles. *Journal of Materials Chemistry*, **2011**, 21, 3966		19
19	Surface spin canting in Fe3O4 and CoFe2O4 nanoparticles probed by high-resolution electron energy loss spectroscopy. *Physical Review B*, **2017**, 95,	3.3	12
18	Modifying Electrical and Magnetic Properties of Single-Walled Carbon Nanotubes by Decorating with Iron Oxide Nanoparticles. *Journal of Nanoscience and Nanotechnology*, **2020**, 20, 2611-2616	1.3	12
17	Multinary copper-based chalcogenide nanocrystal systems from the perspective of device applications. *Nanoscale Advances*, **2020**, 2, 3069-3082	5.1	9
16	Behavior of engineered nanoparticles in aquatic environmental samples: Current status and challenges. *Science of the Total Environment*, **2021**, 793, 148560	10.2	9
15	Self-assembly of P22 protein cages with polyamidoamine dendrimer and inorganic nanoparticles. *Journal of Materials Research*, **2017**, 32, 465-472	2.5	8
14	Methods for Measuring Concentration (Mass, Surface Area and Number) of Nanomaterials. *Frontiers of Nanoscience*, **2015**, 8, 153-181	0.7	8
13	Selectively self-assembling graphene nanoribbons with shaped iron oxide nanoparticles. *RSC Advances*, **2014**, 4, 33127-33133	3.7	7
12	DNA Interaction of Pt-Attached Iron Oxide Nanoparticles. *IEEE Transactions on Magnetics*, **2013**, 49, 373-376		7
11	Pathways for Gold Nucleation and Growth over Protein Cages. *Langmuir*, **2017**, 33, 5925-5931	4	4
10	Water-Soluble Anisotropic Iron Oxide Nanoparticles: Dextran-Coated Crystalline Nanoplates and Nanoflowers. *Particulate Science and Technology*, **2014**, 32, 224-233	2	4
9	"How Do We Do This at a Distance?!" A Descriptive Study of Remote Undergraduate Research Programs during COVID-19.. *CBE Life Sciences Education*, **2022**, 21, ar1	3.4	4
8	Integrated experimental and computational approach for nanoparticle flow analysis. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2019**, 383, 1615-1621	2.3	3
7	Synthesis and Characterization of Iron Oxide Nanoparticles. *Advances in Chemical and Materials Engineering Book Series*, **2014**, 89-107	0.2	3
6	Advances in Smart Nanomaterials: Environmental Perspective. *Journal of Nanomaterials*, **2020**, 2020, 1-2	3.2	3
5	Understanding nanoparticle flow with a new in vitro experimental and computational approach using hydrogel channels. *Beilstein Journal of Nanotechnology*, **2020**, 11, 296-309	3	2
4	A Dynamic Light Scattering Approach for Detection of Nanomaterials in Tennessee River. *Water Resources Research*, **2021**, 57, e2020WR028687	5.4	0

3 Synthesis and Properties of Magnetic Chalcogenide Nanostructures **2017**, 191-216

2 Introduction to Bio-Inspired Hydrogel and Their Application. *Advances in Chemical and Materials Engineering Book Series*,133-159 0.2

1 Bionanomaterials for diagnosis and therapy of SARS-CoV-2 **2022**, 469-489