

# Poulomi Roy

## List of Publications by Citations

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33  
papers

4,875  
citations

20  
h-index

34  
g-index

34  
ext. papers

5,286  
ext. citations

6.9  
avg, IF

6.13  
L-index

#	Paper	IF	Citations
33	TiO <sub>2</sub> nanotubes: synthesis and applications. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 2904-2916	16.4	2393
32	Nanostructured anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 2454-2484	3.484	574
31	TiO <sub>2</sub> nanotubes and their application in dye-sensitized solar cells. <i>Nanoscale</i> , <b>2010</b> , 2, 45-59	7.7	516
30	Improved efficiency of TiO <sub>2</sub> nanotubes in dye sensitized solar cells by decoration with TiO <sub>2</sub> nanoparticles. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 1001-1004	5.1	178
29	Nb doped TiO <sub>2</sub> nanotubes for enhanced photoelectrochemical water-splitting. <i>Nanoscale</i> , <b>2011</b> , 3, 3094-3097	7.7	168
28	Anodic formation of thick anatase TiO <sub>2</sub> mesosponge layers for high-efficiency photocatalysis. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 1478-9	16.4	155
27	Nanostructured copper sulfides: synthesis, properties and applications. <i>CrystEngComm</i> , <b>2015</b> , 17, 7801-7815	3.35	120
26	Oxide nanotubes on Ti-Ru alloys: strongly enhanced and stable photoelectrochemical activity for water splitting. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 5629-31	16.4	99
25	Self-organized TiO <sub>2</sub> Nanotube Arrays: Critical Effects on Morphology and Growth. <i>Israel Journal of Chemistry</i> , <b>2010</b> , 50, 453-467	3.4	79
24	Chemical bath deposition of MoS <sub>2</sub> thin film using ammonium tetrathiomolybdate as a single source for molybdenum and sulphur. <i>Thin Solid Films</i> , <b>2006</b> , 496, 293-298	2.2	75
23	Size-selective separation of macromolecules by nanochannel titania membrane with self-cleaning (declogging) ability. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 7893-5	16.4	73
22	Self-organized TiO <sub>2</sub> nanotubes: Factors affecting their morphology and properties. <i>Physica Status Solidi (B): Basic Research</i> , <b>2010</b> , 247, 2424-2435	1.3	72
21	Formation of a non-thickness-limited titanium dioxide mesosponge and its use in dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9326-9	16.4	71
20	Dye-sensitized solar cells using anodic TiO <sub>2</sub> mesosponge: Improved efficiency by TiCl <sub>4</sub> treatment. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 574-578	5.1	57
19	Three-dimensional NiCo <sub>2</sub> O <sub>4</sub> /NiCo <sub>2</sub> S <sub>4</sub> hybrid nanostructure on Ni-foam as a high-performance supercapacitor electrode. <i>RSC Advances</i> , <b>2016</b> , 6, 95760-95767	3.7	36
18	Seawater electrocatalysis: activity and selectivity. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 74-86	13	35
17	In Situ Mn-Doping-Promoted Conversion of Co(OH) <sub>2</sub> to Co <sub>3</sub> O <sub>4</sub> as an Active Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 9690-9698	8.3	28

16	Formation of a Non-Thickness-Limited Titanium Dioxide Mesosponge and its Use in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 9490-9493	3.6	26
15	Synthesis of poly(o-phenylenediamine) nanofiber with novel structure and properties. <i>Polymers for Advanced Technologies</i> , <b>2017</b> , 28, 797-804	3.2	22
14	Facile synthesis of flower-like morphology CuCoO for a high-performance supercapattery with extraordinary cycling stability. <i>Chemical Communications</i> , <b>2018</b> , 54, 12400-12403	5.8	21
13	Structure and properties of conducting poly(o-phenylenediamine) synthesized in different inorganic acid medium. <i>Macromolecular Research</i> , <b>2016</b> , 24, 342-349	1.9	19
12	Bismuth iron molybdenum oxide solid solution: a novel and durable electrocatalyst for overall water splitting. <i>Chemical Communications</i> , <b>2020</b> , 56, 7293-7296	5.8	11
11	Influence of structure of poly(o-phenylenediamine) on the doping ability and conducting property. <i>Ionics</i> , <b>2017</b> , 23, 937-947	2.7	11
10	Hybrid NiCo <sub>2</sub> O <sub>4</sub> -NiCo <sub>2</sub> S <sub>4</sub> Nanoflakes as High-Performance Anode Materials for Lithium-Ion Batteries. <i>ChemistrySelect</i> , <b>2018</b> , 3, 2315-2320	1.8	9
9	Cobalt chromium vanadium layered triple hydroxides as an efficient oxygen electrocatalyst for alkaline seawater splitting.. <i>Chemical Communications</i> , <b>2021</b> ,	5.8	8
8	Fe <sub>2</sub> O <sub>3</sub> /TiO <sub>2</sub> Hybrids with Tunable Morphologies as Efficient Photocatalysts and Positive Electrodes for Supercapacitors. <i>ChemistrySelect</i> , <b>2018</b> , 3, 3284-3294	1.8	4
7	Nanostructured Metal Oxide, Hydroxide, and Chalcogenide for Supercapacitor Applications <b>2019</b> , 521-571		3
6	Defect enriched hierarchical iron promoted Bi <sub>2</sub> MoO <sub>6</sub> hollow spheres as efficient electrocatalyst for water oxidation. <i>Chemical Engineering Journal</i> , <b>2021</b> , 426, 131884	14.7	3
5	Deposition of Tin Oxide Thin Films by Successive Ionic Layer Adsorption Reaction Method and Its Characterization. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 2569-2575	1.3	2
4	Ammonia-Assisted Growth of CoSn(OH) Nanostructures and Their Electrochemical Performances for Supercapacitor. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 2755-2761	1.3	2
3	Cobalt and Iron Phosphates with Modulated Compositions and Phases as Efficient Electrocatalysts for Alkaline Seawater Oxidation. <i>Chemical Communications</i> ,	5.8	1
2	Effectiveness of different facemask materials to combat transmission of airborne diseases. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , <b>2021</b> , 46, 1	1	0
1	Nanohybrid Materials in the Development of Solar Energy Applications <b>2017</b> , 147-197		