

# Poulomi Roy

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

5,776  
citations

279701

23  
h-index

414303

32  
g-index

34  
all docs

34  
docs citations

34  
times ranked

7932  
citing authors

#	ARTICLE	IF	CITATIONS
1	TiO <sub>2</sub> Nanotubes: Synthesis and Applications. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 2904-2939.	7.2	2,752
2	Nanostructured anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2454-2484.	5.2	690
3	TiO <sub>2</sub> nanotubes and their application in dye-sensitized solar cells. <i>Nanoscale</i> , 2010, 2, 45-59.	2.8	571
4	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> , 2009, 11, 1001-1004.	2.3	192
5	Nb doped TiO <sub>2</sub> nanotubes for enhanced photoelectrochemical water-splitting. <i>Nanoscale</i> , 2011, 3, 3094.	2.8	186
6	Anodic Formation of Thick Anatase TiO <sub>2</sub> Mesosponge Layers for High-Efficiency Photocatalysis. <i>Journal of the American Chemical Society</i> , 2010, 132, 1478-1479.	6.6	163
7	Nanostructured copper sulfides: synthesis, properties and applications. <i>CrystEngComm</i> , 2015, 17, 7801-7815.	1.3	148
8	Seawater electrocatalysis: activity and selectivity. <i>Journal of Materials Chemistry A</i> , 2021, 9, 74-86.	5.2	111
9	Oxide Nanotubes on Ti <sup>100</sup> Ru Alloys: Strongly Enhanced and Stable Photoelectrochemical Activity for Water Splitting. <i>Journal of the American Chemical Society</i> , 2011, 133, 5629-5631.	6.6	109
10	Self-Organized TiO <sub>2</sub> Nanotube Arrays: Critical Effects on Morphology and Growth. <i>Israel Journal of Chemistry</i> , 2010, 50, 453-467.	1.0	96
11	Self-Organized TiO <sub>2</sub> nanotubes: Factors affecting their morphology and properties. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2424-2435.	0.7	85
12	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> , 2006, 496, 293-298.	0.8	80
13	Size-Selective Separation of Macromolecules by Nanochannel Titania Membrane with Self-Cleaning (Declogging) Ability. <i>Journal of the American Chemical Society</i> , 2010, 132, 7893-7895.	6.6	79
14	Formation of a Non-Thickness-Limited Titanium Dioxide Mesosponge and its Use in Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9326-9329.	7.2	75
15	Dye-sensitized solar cells using anodic TiO <sub>2</sub> mesosponge: Improved efficiency by TiCl <sub>4</sub> treatment. <i>Electrochemistry Communications</i> , 2010, 12, 574-578.	2.3	61
16	Transition Metal Non-Oxides as Electrocatalysts: Advantages and Challenges. <i>Small</i> , 2022, 18, .	5.2	47
17	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> , 2016, 6, 95760-95767.	1.7	46
18	Facile synthesis of flower-like morphology Cu <sub>0.27</sub> Co <sub>2.73</sub> O <sub>4</sub> for a high-performance supercapattery with extraordinary cycling stability. <i>Chemical Communications</i> , 2018, 54, 12400-12403.	2.2	37

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19	In Situ Mn-Doping-Promoted Conversion of $\text{Co}(\text{OH})_2$ to $\text{Co}_3\text{O}_4$ as an Active Electrocatalyst for Oxygen Evolution Reaction. ACS Sustainable Chemistry and Engineering, 2019, 7, 9690-9698.	3.2	36
20	Synthesis of poly(o-phenylenediamine) nanofiber with novel structure and properties. Polymers for Advanced Technologies, 2017, 28, 797-804.	1.6	34
21	Structure and properties of conducting poly(o-phenylenediamine) synthesized in different inorganic acid medium. Macromolecular Research, 2016, 24, 342-349.	1.0	28
22	Cobalt chromium vanadium layered triple hydroxides as an efficient oxygen electrocatalyst for alkaline seawater splitting. Chemical Communications, 2022, 58, 1104-1107.	2.2	28
23	Influence of structure of poly(o-phenylenediamine) on the doping ability and conducting property. Ionics, 2017, 23, 937-947.	1.2	18
24	Defect enriched hierarchical iron promoted $\text{Bi}_2\text{MoO}_6$ hollow spheres as efficient electrocatalyst for water oxidation. Chemical Engineering Journal, 2021, 426, 131884.	6.6	16
25	Bismuth iron molybdenum oxide solid solution: a novel and durable electrocatalyst for overall water splitting. Chemical Communications, 2020, 56, 7293-7296.	2.2	15
26	Cobalt and iron phosphates with modulated compositions and phases as efficient electrocatalysts for alkaline seawater oxidation. Chemical Communications, 2022, 58, 6761-6764.	2.2	14
27	Hybrid $\text{NiCo}_2\text{O}_4$ $\text{NiCo}_2\text{S}_4$ Nanoflakes as High-Performance Anode Materials for Lithium-Ion Batteries. ChemistrySelect, 2018, 3, 2315-2320.	0.7	13
28	Ammonia-Assisted Growth of $\text{CoSn}(\text{OH})_6$ Nanostructures and Their Electrochemical Performances for Supercapacitor. Journal of Nanoscience and Nanotechnology, 2019, 19, 2755-2761.	0.9	6
29	$\text{Fe}_2\text{O}_3/\text{TiO}_2$ Hybrids with Tunable Morphologies as Efficient Photocatalysts and Positive Electrodes for Supercapacitors. ChemistrySelect, 2018, 3, 3284-3294.	0.7	5
30	Deposition of Tin Oxide Thin Films by Successive Ionic Layer Adsorption Reaction Method and Its Characterization. Journal of Nanoscience and Nanotechnology, 2018, 18, 2569-2575.	0.9	3
31	Effectiveness of different facemask materials to combat transmission of airborne diseases. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	0.8	3