

Arpan Kumar Nayak

List of Publications by Year in descending order

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52
papers

1,722
citations

257101

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docs citations

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times ranked

2289
citing authors

#	ARTICLE	IF	CITATIONS
1	Novel porous heteroatom-doped biomass activated carbon nanoflakes for efficient solid-state symmetric supercapacitor devices. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 132, 104148.	2.7	21
2	Bismuth series photocatalytic materials for the treatment of environmental pollutants. , 2022, , 135-151.		1
3	Facet-dependent nanostructures for visible light photocatalysis. , 2022, , 351-374.		1
4	Fundamentals principle of photocatalysis. , 2022, , 1-22.		3
5	Carbon-based materials for visible light photocatalysis. , 2022, , 115-134.		0
6	Fabrication of Mn ₃ O ₄ -WO ₃ nanoparticles based nanocomposites symmetric supercapacitor device for enhanced energy storage performance under neutral electrolyte. <i>Electrochimica Acta</i> , 2022, 406, 139870.	2.6	33
7	Recent advancement of biomass-derived porous carbon based materials for energy and environmental remediation applications. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6965-7005.	5.2	98
8	Sustainable synthesis of heteroatom-doped porous carbon skeleton from <i>Acacia auriculiformis</i> bark for high-performance symmetric supercapacitor device. <i>Electrochimica Acta</i> , 2022, 414, 140205.	2.6	23
9	Degradation of mixed cationic dye pollutant by metal free melem derivatives and graphitic carbon nitride. <i>Chemosphere</i> , 2022, 298, 134249.	4.2	14
10	Facile hydrothermal synthesis of Au-Mn ₃ O ₄ decorated graphene oxide nanocomposites for solid-state supercapacitor. <i>Journal of Energy Storage</i> , 2022, 50, 104615.	3.9	16
11	Crystal structure controlled synthesis of tin oxide nanoparticles for enhanced energy storage activity under neutral electrolyte. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 13668-13683.	1.1	5
12	Biowaste assisted preparation of self-nitrogen-doped nanoflakes carbon framework for highly efficient solid-state supercapacitor application. <i>Journal of Energy Storage</i> , 2022, 54, 105210.	3.9	19
13	Intercalation pseudocapacitance in Bi ₂ Se ₃ ~MnO ₂ nanotube composite for high electrochemical energy storage. <i>Electrochimica Acta</i> , 2021, 367, 137531.	2.6	20
14	Inherent Oxygen~and Nitrogen~Doped Porous Carbon Derived from Biomass of Tamarind Leaf for High~Performance Supercapacitor Application. <i>Energy Technology</i> , 2021, 9, .	1.8	10
15	Surface engineered Tb and Co co-doped BiFeO ₃ nanoparticles for enhanced photocatalytic and magnetic properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 7956-7972.	1.1	9
16	Surface engineered NiO~Co ₃ O ₄ nanostructures as high-performance electrocatalysts for oxygen reduction reaction. <i>Ceramics International</i> , 2020, 46, 25351-25358.	2.3	14
17	Mn incorporated MoS ₂ nanoflowers: A high performance electrode material for symmetric supercapacitor. <i>Electrochimica Acta</i> , 2020, 338, 135815.	2.6	68
18	Facile Synthesis of N-Doped WS ₂ Nanosheets as an Efficient and Stable Electrocatalyst for Hydrogen Evolution Reaction in Acidic Media. <i>Catalysts</i> , 2020, 10, 1238.	1.6	13

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19	<i>Bos taurus</i> Urine Assisted Biosynthesis of CuO Nanomaterials: A New Paradigm of Antimicrobial and Antineoplastic Therapy. <i>Macromolecular Symposia</i> , 2020, 392, 1900172.	0.4	6
20	Partial Dehydration in Hydrated Tungsten Oxide Nanoplates Leads to Excellent and Robust Bifunctional Oxygen Reduction and Hydrogen Evolution Reactions in Acidic Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9507-9518.	3.2	23
21	Improved bioelectricity generation of air-cathode microbial fuel cell using sodium hexahydroxostannate as cathode catalyst. <i>Journal of Power Sources</i> , 2020, 450, 227679.	4.0	12
22	Facile single phase synthesis of Sr, Co co-doped BiFeO ₃ nanoparticles for boosting photocatalytic and magnetic properties. <i>Applied Surface Science</i> , 2019, 493, 593-604.	3.1	42
23	Morphology-dependent charge storage performance of Co ₃ O ₄ nanostructures in an all-solid-state flexible supercapacitor. <i>New Journal of Chemistry</i> , 2019, 43, 15177-15186.	1.4	16
24	Intercalation pseudocapacitance in chemically stable Au-Fe ₂ O ₃ -Mn ₃ O ₄ composite nanorod: Towards highly efficient solid-state symmetric supercapacitor device. <i>Electrochimica Acta</i> , 2019, 324, 134865.	2.6	28
25	Enhanced electrical, magnetic and optical behaviour of Cr doped Bi _{0.98} Ho _{0.02} FeO ₃ nanoparticles. <i>Journal of Alloys and Compounds</i> , 2019, 796, 229-236.	2.8	23
26	Fabrication of MoS ₂ decorated reduced graphene oxide sheets from solid Mo-precursor for electrocatalytic hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2019, 313, 341-351.	2.6	30
27	Redox active nitrogen-containing conjugated porous polymer: An organic heterogeneous electrocatalysts for oxygen reduction reaction. <i>Dyes and Pigments</i> , 2019, 170, 107557.	2.0	2
28	Redox-Mediated Shape Transformation of Fe ₃ O ₄ Nanoflakes to Chemically Stable Au-Fe ₂ O ₃ Composite Nanorods for a High-Performance Asymmetric Solid-State Supercapacitor Device. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 724-733.	3.2	35
29	Enhanced energy recovery by manganese oxide/reduced graphene oxide nanocomposite as an air-cathode electrode in the single-chambered microbial fuel cell. <i>Journal of Electroanalytical Chemistry</i> , 2018, 815, 1-7.	1.9	33
30	Microwave-Assisted Greener Synthesis of Defect-Rich Tungsten Oxide Nanowires with Enhanced Photocatalytic and Photoelectrochemical Performance. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3183-3193.	1.5	49
31	Nitrogen-Enriched Nanoporous Polytriazine for High-Performance Supercapacitor Application. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 5895-5902.	3.2	49
32	Flower-Shaped Self-Assembled Ni _{0.5} Cu _{0.5} Co ₂ O ₄ Porous Architecture: A Ternary Metal Oxide as a High-Performance Charge Storage Electrode Material. <i>ACS Applied Nano Materials</i> , 2018, 1, 5812-5822.	2.4	35
33	Synthesis of Au-V ₂ O ₅ composite nanowires through the shape transformation of a vanadium(III) metal complex for high-performance solid-state supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 1836-1843.	3.0	27
34	Efficient UV photocatalytic dye decomposition activity with cost effective solid state reaction grown Zinc Orthotitanate (Zn ₂ TiO ₄) nanoparticles. <i>Journal of Alloys and Compounds</i> , 2018, 764, 895-900.	2.8	13
35	VS ₂ : an efficient catalyst for an electrochemical hydrogen evolution reaction in an acidic medium. <i>Dalton Transactions</i> , 2018, 47, 13792-13799.	1.6	49
36	Microwave-Assisted Solvothermal Synthesis of Cupric Oxide Nanostructures for High-Performance Supercapacitor. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11249-11261.	1.5	66

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37	Growth of significantly low dimensional zinc orthotitanate (Zn ₂ TiO ₄) nanoparticles by solid state reaction method. <i>Science of Sintering</i> , 2018, 50, 133-138.	0.5	6
38	Crystal Phase and Size-Controlled Synthesis of Tungsten Trioxide Hydrate Nanoplates at Room Temperature: Enhanced Cr(VI) Photoreduction and Methylene Blue Adsorption Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2741-2750.	3.2	59
39	Structural and optical properties of Ba,Cr Co-doped BiFeO ₃ multiferroic nanoparticles. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	3
40	Highly Active Tungsten Oxide Nanoplate Electrocatalysts for the Hydrogen Evolution Reaction in Acidic and Near Neutral Electrolytes. <i>ACS Omega</i> , 2017, 2, 7039-7047.	1.6	68
41	High Performance Solid-State Asymmetric Supercapacitor using Green Synthesized Graphene-WO ₃ Nanowires Nanocomposite. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10128-10138.	3.2	136
42	Facile Green Synthesis of WO ₃ ·H ₂ O Nanoplates and WO ₃ Nanowires with Enhanced Photoelectrochemical Performance. <i>Crystal Growth and Design</i> , 2017, 17, 4949-4957.	1.4	58
43	Bond-Energy-Driven, Low- or High-Angle-Grain-Boundary-Movement-Mediated Synthesis of Porous SeTe for Use in Water-Splitting Reactions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 41818-41826.	4.0	0
44	Enhanced catalytic activity without the use of an external light source using microwave-synthesized CuO nanopetals. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1167-1173.	1.5	9
45	Improvement of power generation of microbial fuel cell by integrating tungsten oxide electrocatalyst with pure or mixed culture biocatalysts. <i>Electrochimica Acta</i> , 2016, 199, 154-163.	2.6	63
46	Understanding hydrothermal transformation from Mn ₂ O ₃ particles to Na _{0.55} Mn ₂ O ₄ ·1.5H ₂ O nanosheets, nanobelts and single crystalline ultra-long Na ₄ Mn ₉ O ₁₈ nanowires. <i>Scientific Reports</i> , 2015, 5, 18275.	1.6	34
47	Enhanced ammonia sensing at room temperature with reduced graphene oxide/tin oxide hybrid films. <i>RSC Advances</i> , 2015, 5, 50165-50173.	1.7	77
48	Biomolecule-assisted synthesis of In(OH) ₃ nanocubes and In ₂ O ₃ nanoparticles: photocatalytic degradation of organic contaminants and CO oxidation. <i>Nanotechnology</i> , 2015, 26, 485601.	1.3	35
49	Hierarchical nanostructured WO ₃ ·SnO ₂ for selective sensing of volatile organic compounds. <i>Nanoscale</i> , 2015, 7, 12460-12473.	2.8	179
50	In-vitro bio-fabrication of silver nanoparticle using <i>Adhathoda vasica</i> leaf extract and its anti-microbial activity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014, 61, 56-61.	1.3	26
51	Synthesis of In ₂ S ₃ microspheres using a template-free and surfactant-less hydrothermal process and their visible light photocatalysis. <i>CrystEngComm</i> , 2014, 16, 8064.	1.3	50
52	Room-temperature ferromagnetic organic magnets derived from fluoro-graphite via facile halide exchange. <i>International Journal of Applied Ceramic Technology</i> , 0, , .	1.1	1