

Nitin K Chaudhari

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,650
citations

236925
25
h-index

315739
38
g-index

41
all docs

41
docs citations

41
times ranked

4508
citing authors

#	ARTICLE	IF	CITATIONS
1	MXene: an emerging two-dimensional material for future energy conversion and storage applications. Journal of Materials Chemistry A, 2017, 5, 24564-24579.	10.3	450
2	Nanostructured materials on 3D nickel foam as electrocatalysts for water splitting. Nanoscale, 2017, 9, 12231-12247.	5.6	403
3	Homogeneous Deposition of Platinum Nanoparticles on Carbon Black for Proton Exchange Membrane Fuel Cell. Journal of the American Chemical Society, 2009, 131, 15330-15338.	13.7	277
4	Heteroatom-doped highly porous carbon from human urine. Scientific Reports, 2014, 4, 5221.	3.3	119
5	Incorporating Hierarchical Nanostructured Carbon Counter Electrode into Metal-Free Organic Dye-Sensitized Solar Cell. Langmuir, 2010, 26, 11238-11243.	3.5	104
6	Size Control Synthesis of Uniform Fe_2O_3 Nanorods. Journal of Physical Chemistry C, 2008, 112, 19957-19962.	3.1	99
7	Lanthanide metal-assisted synthesis of rhombic dodecahedral MNi ($\text{M} = \text{Ir}$ and Pt) nanoframes toward efficient oxygen evolution catalysis. Nano Energy, 2017, 42, 17-25.	16.0	94
8	Cube-like Fe_2O_3 Supported on Ordered Multimodal Porous Carbon as High Performance Electrode Material for Supercapacitors. ChemSusChem, 2014, 7, 3102-3111.	6.8	90
9	Recent Progress in Bifunctional Electrocatalysts for Overall Water Splitting under Acidic Conditions. ChemElectroChem, 2019, 6, 3244-3253.	3.4	79
10	Topotactic Transformations in an Icosahedral Nanocrystal to Form Efficient Water-Splitting Catalysts. Advanced Materials, 2019, 31, e1805546.	21.0	76
11	Peroxidase mimic activity of hematite iron oxides (Fe_2O_3) with different nanostructures. Catalysis Science and Technology, 2012, 2, 119-124.	4.1	75
12	Transition metal dichalcogenide-decorated MXenes: promising hybrid electrodes for energy storage and conversion applications. Materials Chemistry Frontiers, 2021, 5, 3298-3321.	5.9	66
13	Recent advances in electrocatalysts toward the oxygen reduction reaction: the case of PtNi octahedra. Nanoscale, 2018, 10, 20073-20088.	5.6	60
14	A highly efficient synthesis approach of supported Pt-Ru catalyst for direct methanol fuel cell. Electrochimica Acta, 2010, 55, 4543-4550.	5.2	58
15	Urine to highly porous heteroatom-doped carbons for supercapacitor: A value added journey for human waste. Scientific Reports, 2017, 7, 10910.	3.3	55
16	Hematite (Fe_2O_3) nanoparticles on vulcan carbon as an ultrahigh capacity anode material in lithium ion battery. Electrochimica Acta, 2013, 114, 60-67.	5.2	54
17	Nanodendrites of platinum-group metals for electrocatalytic applications. Nano Research, 2018, 11, 6111-6140.	10.4	54
18	Easy synthesis and characterization of single-crystalline hexagonal prism-shaped hematite Fe_2O_3 in aqueous media. CrystEngComm, 2009, 11, 2264.	2.6	50

#	ARTICLE	IF	CITATIONS
19	Ptâ€“Cu based nanocrystals as promising catalysts for various electrocatalytic reactions. Journal of Materials Chemistry A, 2019, 7, 17183-17203.	10.3	48
20	Supported copper oxide as a highly active/selective catalyst for the epoxidation of styrene by TBHP to styrene oxide. Catalysis Communications, 2007, 8, 1556-1560.	3.3	46
21	Paving way for sustainable earth-abundant metal based catalysts for chemical fixation of CO ₂ into epoxides for cyclic carbonate formation. Catalysis Reviews - Science and Engineering, 2022, 64, 356-443.	12.9	43
22	Epoxidation of styrene by anhydrous hydrogen peroxide over boehmite and alumina catalysts with continuous removal of the reaction water. Journal of Molecular Catalysis A, 2005, 227, 217-222.	4.8	38
23	Carbon Transitionâ€“metal Oxide Electrodes: Understanding the Role of Surface Engineering for High Energy Density Supercapacitors. Chemistry - an Asian Journal, 2020, 15, 1628-1647.	3.3	37
24	Morphology controlled synthesis of 2-D Niâ€“Ni ₃ S ₂ and Ni ₃ S ₂ nanostructures on Ni foam towards oxygen evolution reaction. Nano Convergence, 2017, 4, .	12.1	28
25	Evaluation of Toxicity and Gene Expression Changes Triggered by Oxide Nanoparticles. Bulletin of the Korean Chemical Society, 2011, 32, 2051-2057.	1.9	26
26	Solvent controlled synthesis of new hematite superstructures with large coercive values. CrystEngComm, 2012, 14, 2024.	2.6	23
27	Biphasic selective epoxidation of styrene by t-butyl hydroperoxide to styrene oxide using potassium chromate or dichromate catalyst in aqueous medium. Catalysis Communications, 2004, 5, 205-208.	3.3	15
28	Effect of pH on electrocatalytic property of supported PtRu catalysts in proton exchange membrane fuel cell. Catalysis Today, 2010, 158, 354-360.	4.4	13
29	Ferric phosphide carbon nanocomposites emerging as highly active electrocatalysts for the hydrogen evolution reaction. Dalton Transactions, 2018, 47, 16011-16018.	3.3	12
30	Low Temperature Synthesis of Single Crystalline Iron Hydroxide and Oxide Nanorods in Aqueous Media. Journal of Nanoscience and Nanotechnology, 2011, 11, 4457-4462.	0.9	9
31	Ferrocene anchored activated carbon as a versatile catalyst for the synthesis of 1,5-benzodiazepines <i>via</i> one-pot environmentally benign conditions. RSC Advances, 2022, 12, 14740-14756.	3.6	9
32	Metallic nanosponges for energy storage and conversion applications. Journal of Materials Chemistry A, 2022, 10, 14221-14246.	10.3	8
33	Fluorescence Enhancement of Ruthenium Complex on Silver Using Different Chain Length Carboxylic Acid Terminated Thiols: Distance and Metal Concentration Study. Journal of Nanoscience and Nanotechnology, 2008, 8, 4747-4751.	0.9	3
34	N-Carbon from Waste Tea as Efficient Anode Electrode Material in Lithium Ion Batteries. Journal of Nanoscience and Nanotechnology, 2017, 17, 1838-1846.	0.9	3
35	Rational competent electrocatalytic oxygen evolution reaction on stable tailored ternary MoO ₃ â€“NiOâ€“activated carbon hybrid catalyst. International Journal of Energy Research, 2022, 46, 12549-12564.	4.5	3
36	Water Splitting: Topotactic Transformations in an Icosahedral Nanocrystal to Form Efficient Water-Splitting Catalysts (Adv. Mater. 1/2019). Advanced Materials, 2019, 31, 1970002.	21.0	2

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37	Acknowledgement to Reviewers of Nanomaterials in 2018. Nanomaterials, 2019, 9, 108.	4.1	0
38	Acknowledgement to Reviewers of Polymers in 2019. Polymers, 2020, 12, 172.	4.5	0