

Ashoka Siddaramanna

List of Publications by Year in descending order

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76
papers

2,340
citations

257450

24
h-index

214800

47
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all docs

76
docs citations

76
times ranked

2582
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-trace detection of toxic heavy metal ions using graphitic carbon functionalized Co ₃ O ₄ modified screen-printed electrode. Carbon Letters, 2022, 32, 181-191.	5.9	17
2	Glycine-nitrate derived cobalt-doped BiPO ₄ : An efficient OER catalyst for alkaline electrochemical cells. Solid State Sciences, 2022, 124, 106803.	3.2	6
3	Studies on Co ₃ O ₄ @NiO nanocomposites for potential electrocatalyst for alkaline water electrolysis. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	2
4	Investigations on the effect of NH ₄ Cl flux on the structural and optical properties of CdSiO ₃ :Eu ³⁺ nanophosphor. Materials Research Innovations, 2022, 26, 437-445.	2.3	0
5	Study the effect of Zn ²⁺ co-doping on the structural and optical properties of CdSiO ₃ :Eu ³⁺ phosphor. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	0
6	Sucrose-assisted rapid synthesis of multifunctional CrVO ₄ nanoparticles: a new high-performance cathode material for lithium ion batteries. Ionics, 2021, 27, 39-48.	2.4	4
7	Facile two-step electrochemical approach for the fabrication of nanostructured nickel oxyhydroxide/SS and its studies on oxygen evolution reaction. Chemical Papers, 2021, 75, 2485-2494.	2.2	4
8	Facile synthesis of Ni/NiO nanocomposites: the effect of Ni content in NiO upon the oxygen evolution reaction within alkaline media. RSC Advances, 2021, 11, 14654-14664.	3.6	36
9	One-Pot Synthesis of Novel Molybdenum Disulfide@Graphene Oxide Nanoarchitecture: An Impeccable Bifunctional Electrode for the Electrochemical Performance of Iron Redox Flow Batteries and Oxygen Evolution Reaction. Energy & Fuels, 2021, 35, 8345-8357.	5.1	5
10	Development of non-stoichiometric hybrid Co ₃ S ₄ /Co _{0.85} Se nanocomposites for an evaluation of synergistic effect on the OER performance. Surfaces and Interfaces, 2021, 25, 101161.	3.0	14
11	Mesoporous LiTiPO ₄ F nanoparticles: A new stable and high performance bifunctional electrocatalyst for electrochemical water splitting. Surfaces and Interfaces, 2021, 25, 101188.	3.0	2
12	Enhancement of photoluminescence of Cd _{0.95} Eu _{0.05} SiO ₃ phosphor using Na ⁺ and K ⁺ as charge compensators. Chemical Physics, 2021, 551, 111319.	1.9	4
13	Enhancement of cycling stability and capacity of lithium secondary battery by engineering highly porous AlV ₃ O ₉ . Journal of Materials Science, 2020, 55, 1648-1658.	3.7	6
14	Hydrogen Peroxide-Assisted Hydrothermal Synthesis of BiFeO ₃ Microspheres and Their Dielectric Behavior. Magnetochemistry, 2020, 6, 42.	2.4	4
15	Scalable chemical approach to prepare crystalline Mn ₂ V ₂ O ₇ nanoparticles: introducing a new long-term cycling cathode material for lithium-ion battery. Journal of Materials Science: Materials in Electronics, 2020, 31, 19638-19646.	2.2	6
16	Functionalized Co ₃ O ₄ graphitic nanoparticles: A high performance electrocatalyst for the oxygen evolution reaction. International Journal of Hydrogen Energy, 2020, 45, 31380-31388.	7.1	21
17	Controlled synthesis of nickel sulfide polymorphs: studies on the effect of morphology and crystal structure on OER performance. Materials Today Energy, 2020, 16, 100414.	4.7	37
18	Studies on anion-induced structural transformations of iron(III) (Hydr)oxide micro-nanostructures and their oxygen evolution reaction performance. Solid State Sciences, 2020, 106, 106314.	3.2	12

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19	Engineering the $MxZn_{1-x}O$ ($M = Al^{3+}, Fe^{3+}, Cr^{3+}$) nanoparticles for visible light-assisted catalytic mineralization of methylene blue dye using Taguchi design. <i>Chemical Papers</i> , 2020, 74, 2719-2731.	2.2	8
20	Rational design and synthesis of hetero-nanostructured electrospun PU@PANI@FeS ₂ : A surface tailored hybrid catalyst for H ₂ production via electrochemical splitting of water. <i>Surfaces and Interfaces</i> , 2020, 18, 100445.	3.0	12
21	Photo-assisted mineralisation of titan yellow dye using ZnO nanorods synthesised via environmental benign route. <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	17
22	<i>In situ</i> addition of graphitic carbon into a NiCo ₂ O ₄ /CoO composite: enhanced catalysis toward the oxygen evolution reaction. <i>RSC Advances</i> , 2019, 9, 24995-25002.	3.6	24
23	An introduction of new nanostructured Zn _{0.29} V ₂ O ₅ cathode material for lithium ion battery: a detailed studies on synthesis, characterization and lithium uptake. <i>Materials Research Express</i> , 2019, 6, 115035.	1.6	11
24	MgFe ₂ O ₄ nanoparticles synthesis and characterization: application to trace level mercury(II) measurement from waste water samples. <i>Materials Research Express</i> , 2019, 6, 125049.	1.6	4
25	Nickel tungstate nanoparticles: synthesis, characterization and electrochemical sensing of mercury(II) ions. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3574-3584.	2.2	15
26	Fabrication of a new calix[4]arene-functionalized Mn ₃ O ₄ nanoparticle-based modified glassy carbon electrode as a fast responding sensor towards Pb ²⁺ and Cd ²⁺ ions. <i>Analytical Methods</i> , 2019, 11, 813-820.	2.7	15
27	MoS ₂ -graphene-CuNi ₂ S ₄ nanocomposite an efficient electrocatalyst for the hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16069-16078.	7.1	21
28	Optimization of parameters for maximizing photocatalytic behaviour of Zn _{1-x} FexO nanoparticles for methyl orange degradation using Taguchi and Grey relational analysis Approach. <i>Materials Today Chemistry</i> , 2019, 12, 187-199.	3.5	31
29	Engineering of highly conductive and mesoporous ZrV ₂ O ₇ : a cathode material for lithium secondary batteries. <i>Journal of Solid State Electrochemistry</i> , 2019, 23, 1201-1209.	2.5	8
30	Synthesis of acid resistant Fe ₂ V ₄ O ₁₃ -polypyrrole nanocomposite: its application towards the fabrication of disposable electrochemical sensor for the detection of As(III). <i>Materials Research Express</i> , 2019, 6, 126448.	1.6	4
31	One-pot synthesis of Mn ₃ O ₄ /graphitic carbon nanoparticles for simultaneous nanomolar detection of Pb(II), Cd(II) and Hg(II). <i>Journal of Materials Science</i> , 2018, 53, 4961-4973.	3.7	23
32	CeO ₂ nanoparticle-modified electrode as a novel electrochemical interface in the quantification of Zn ²⁺ ions at trace level: application to real sample analysis. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 1711-1719.	2.5	7
33	Elimination of quenching defects by facile anion doping in CdSiO ₃ synthesized by green fuel assisted combustion method. <i>Optik</i> , 2018, 154, 670-675.	2.9	4
34	A new and effective approach for Fe ₂ V ₄ O ₁₃ nanoparticles synthesis: Evaluation of electrochemical performance as cathode for lithium secondary batteries. <i>Journal of Alloys and Compounds</i> , 2018, 737, 665-671.	5.5	21
35	Fe ₂ V ₄ O ₁₃ Nanoparticles Based Electrochemical Sensor for the Simultaneous Determination of Guanine and Adenine at Nanomolar Concentration. <i>Electroanalysis</i> , 2018, 30, 1971-1982.	2.9	7
36	Nano zinc ferrite modified electrode as a novel electrochemical sensing platform in simultaneous measurement of trace level lead and cadmium. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 6939-6946.	6.7	23

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37	Citric acid assisted synthesis of manganese tungstate nanoparticles for simultaneous electrochemical sensing of heavy metal ions. <i>Materials Science in Semiconductor Processing</i> , 2018, 86, 85-92.	4.0	21
38	Room temperature synthesis of amorphous $\text{Bi}_4\text{V}_2\text{O}_{11}$ as cathode material for Li secondary batteries. <i>Materials Research Express</i> , 2018, 5, 115501.	1.6	4
39	Mesoporous CeO_2 nanoparticles modified Glassy carbon electrode for individual and simultaneous determination of Cu(II) and Hg(II) : Application to environmental samples. <i>Materials Science in Semiconductor Processing</i> , 2018, 84, 157-166.	4.0	21
40	$\text{CdSiO}_3:\text{Eu}^{3+}$ nanophosphor: one pot synthesis and enhancement of orange-red emission through Li^+ co-doping. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 12986-12992.	2.2	11
41	Studies on phase and morphological evolution of silver vanadium oxides as a function of pH: evaluation of electrochemical behavior towards quantification of Pb^{2+} and Cd^{2+} ions. <i>Materials Research Express</i> , 2017, 4, 085039.	1.6	7
42	Tuning of superhydrophobic to hydrophilic surface: A facile one step electrochemical approach. <i>Journal of Alloys and Compounds</i> , 2017, 695, 1528-1531.	5.5	13
43	Vanadium oxide nanorings: Facile synthesis, formation mechanism and electrochemical properties. <i>Materials Research Bulletin</i> , 2016, 83, 542-549.	5.2	4
44	ZnO Superstructures as an Antifungal for Effective Control of <i>Malassezia furfur</i> , Dermatologically Prevalent Yeast: Prepared by Aloe Vera Assisted Combustion Method. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1066-1080.	6.7	27
45	Electrochemical synthesis of highly ordered polypyrrole on copper modified aluminium substrates. <i>Applied Surface Science</i> , 2014, 307, 589-592.	6.1	5
46	Stabilization of metastable tetragonal phase in a rhombohedral magnetoelectric multiferroic $\text{BiFeO}_3 \rightarrow \text{PbTiO}_3$. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 045004.	2.8	20
47	Multi-particle assembled porous nanostructured MgO : its application in fluoride removal. <i>Materials Research Express</i> , 2014, 1, 045004.	1.6	3
48	A versatile cost-effective and one step process to engineer ZnO superhydrophobic surfaces on Al substrate. <i>Applied Surface Science</i> , 2014, 311, 182-188.	6.1	35
49	Effect of crystallite size and clustering in influencing the stability of phases of a very large tetragonality ferroelectric system $0.6\text{BiFeO}_3 \rightarrow 0.4\text{PbTiO}_3$. <i>Solid State Communications</i> , 2013, 160, 56-60.	1.9	7
50	Structural and magnetic studies of $\text{Mg}(1-x)\text{Zn}_x\text{Fe}_2\text{O}_4$ nanoparticles prepared by a solution combustion method. <i>Journal of Alloys and Compounds</i> , 2013, 578, 103-109.	5.5	48
51	An efficient and a novel route for the synthesis of titania via solution combustion of peroxotitanic acid. <i>Materials Letters</i> , 2013, 91, 272-274.	2.6	14
52	Simple non-basic solution route for the preparation of zinc oxide hollow spheres. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012, 44, 1346-1350.	2.7	4
53	Hydrothermal conversion of ZnO_2 to ZnO flowers: A mechanistic investigation and characterization. <i>Crystal Research and Technology</i> , 2012, 47, 1075-1082.	1.3	6
54	Structural characterization, EPR and thermoluminescence properties of $\text{Cd}_{1-x}\text{Ni}_x\text{SiO}_3$ nanocrystalline phosphors. <i>Materials Research Bulletin</i> , 2012, 47, 2306-2314.	5.2	30

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55	One step synthesis of monoclinic VO ₂ (B) bundles of nanorods: Cathode for Li ion battery. Materials Characterization, 2012, 68, 58-62.	4.4	54
56	Morphological Evolution of (NH ₄) _{0.5} V ₂ O ₅ ·mH ₂ O Fibers into Belts, Triangles, and Rings. Inorganic Chemistry, 2011, 50, 7421-7428.	4.0	38
57	Combustion Derived Nanocrystalline ZrO ₂ and Its Catalytic Activity for Biginelli Condensation under Microwave Irradiation. Chinese Journal of Chemistry, 2011, 29, 1863-1868.	4.9	13
58	Nano-MgO: An Efficient Catalyst for the Synthesis of Formamides from Amines and Formic Acid Under MWI. Catalysis Letters, 2010, 138, 82-87.	2.6	38
59	Controlled synthesis of cadmium carbonate nanowires, nanoribbons, nanorings and sphere like architectures via hydrothermal method. Materials Research Bulletin, 2010, 45, 1736-1740.	5.2	32
60	Studies on the synthesis of CdCO ₃ nanowires and porous CdO powder. Materials Letters, 2010, 64, 173-176.	2.6	50
61	Reduction of KMnO ₄ to Mn ₃ O ₄ via hydrothermal process. Materials Letters, 2010, 64, 2538-2540.	2.6	34
62	Surfactant free hydrothermally derived ZnO nanowires, nanorods, microrods and their characterization. Materials Science in Semiconductor Processing, 2010, 13, 21-28.	4.0	37
63	Nanostructural zinc oxide hollow spheres: A facile synthesis and catalytic properties. Inorganica Chimica Acta, 2010, 363, 3442-3447.	2.4	24
64	Synthesis and characterisation of microstructural Mn ₂ O ₃ materials. Journal of Experimental Nanoscience, 2010, 5, 285-293.	2.4	26
65	A facile low temperature hydrothermal route to CdSO ₄ nanotubes/rods. Materials Letters, 2009, 63, 492-495.	2.6	14
66	Ethylene glycol assisted hydrothermal synthesis of flower like ZnO architectures. Materials Letters, 2009, 63, 873-876.	2.6	81
67	Temperature dependent electrical conductivity of Fe doped ZnO nanoparticles prepared by solution combustion method. Journal of Alloys and Compounds, 2009, 485, 538-541.	5.5	55
68	A study of the interaction between bromopyrogallol red and bovine serum albumin by spectroscopic methods. Dyes and Pigments, 2007, 73, 211-216.	3.7	114
69	Spectroscopic investigations on the mechanism of interaction of bioactive dye with bovine serum albumin. Dyes and Pigments, 2007, 74, 665-671.	3.7	120
70	Study of the interaction between doxepin hydrochloride and bovine serum albumin by spectroscopic techniques. International Journal of Biological Macromolecules, 2006, 39, 234-239.	7.5	74
71	Spectroscopic Studies and Life Time Measurements of Binding of a Bioactive Compound to Bovine Serum Albumin and the Effects of Common Ions and Other Drugs on Binding. Chemical and Pharmaceutical Bulletin, 2006, 54, 422-427.	1.3	16
72	Binding of the bioactive component isothipendyl hydrochloride with bovine serum albumin. Journal of Molecular Structure, 2006, 786, 46-52.	3.6	110

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73	Study of the interaction of an anticancer drug with human and bovine serum albumin: Spectroscopic approach. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 41, 393-399.	2.8	484
74	Study of the interaction between doxepin and human serum albumin by spectroscopic methods. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 179, 161-166.	3.9	55
75	Investigation of the interaction between trazodone hydrochloride and bovine serum albumin. <i>Journal of Luminescence</i> , 2006, 121, 179-186.	3.1	153
76	Validation of enhanced OER performance of the amorphous Al ₂ O ₃ -added Co ₃ O ₄ /NiO two-dimensional ternary nanocomposite. <i>Chemical Papers</i> , 0, , 1.	2.2	3