

Santosh K Haram

List of Publications by Year in descending order

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79
papers

4,093
citations

159585

30
h-index

114465

63
g-index

80
all docs

80
docs citations

80
times ranked

5338
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of bi/reduced graphene oxide electro-catalyst for CO ₂ reduction reaction. Materials Today: Proceedings, 2022, , .	1.8	0
2	¹³ -Ray-Assisted Synthesis of a Pt-Sn Bimetallic Composite Loaded on Graphene-Graphitic Carbon Nitride Hybrid: A Cocktail Electrocatalyst for the Methanol Oxidation Reaction. ACS Omega, 2021, 6, 13579-13587.	3.5	17
3	Covalent conjugation of single-walled carbon nanotube with CYP101 mutant for direct electrocatalysis. Analytical Biochemistry, 2021, 626, 114204.	2.4	4
4	Siderophore mediated mineralization of struvite: A novel greener route of sustainable phosphate management. Water Research, 2021, 203, 117511.	11.3	10
5	Experimental and Theoretical Study into Interface Structure and Band Alignment of the Cu ₂ Zn _{1-x} Cd _x Sn ₄ Heterointerface for Photovoltaic Applications. ACS Applied Energy Materials, 2020, 3, 5153-5162.	5.1	25
6	Probing the effect of selenium substitution in kesterite-Cu ₂ ZnSnS ₄ nanocrystals prepared by hot injection method. Journal of Materials Science: Materials in Electronics, 2019, 30, 14781-14790.	2.2	8
7	High sensitive determination of dopamine through catalytic oxidation and preconcentration over gold-multiwall carbon nanotubes composite modified electrode. Materials Science and Engineering C, 2019, 103, 109788.	7.3	20
8	Rapid and efficient sequestration of arsenic from contaminated water using hypertolerant <i>Bacillus</i> L-148 sp.: a two-step process. Green Chemistry, 2019, 21, 2245-2251.	9.0	3
9	Development of self-supported 3D microporous solder alloy electrodes for scalable CO ₂ electroreduction to formate. New Journal of Chemistry, 2019, 43, 6587-6596.	2.8	7
10	Efficient charge transport in surface engineered TiO ₂ nanoparticulate photoanodes leading to improved performance in quantum dot sensitized solar cells. Solar Energy, 2019, 181, 195-202.	6.1	23
11	Inhibiting Interfacial Charge Recombination for Boosting Power Conversion Efficiency in CdSe{Au} Nanohybrid Sensitized Solar Cell. Journal of Physical Chemistry C, 2018, 122, 13277-13284.	3.1	15
12	A novel inhibition based biosensor using urease nanoconjugate entrapped biocomposite membrane for potentiometric glyphosate detection. International Journal of Biological Macromolecules, 2018, 108, 32-40.	7.5	65
13	Boosting the Efficiency of Quantum Dot-Sensitized Solar Cells through Formation of the Cation-Exchanged Hole Transporting Layer. Langmuir, 2018, 34, 50-57.	3.5	20
14	CZTS/CdS: interface properties and band alignment study towards photovoltaic applications. Journal of Materials Science: Materials in Electronics, 2018, 29, 4201-4210.	2.2	24
15	Designing a 3D nanoporous network via self-assembly of WO ₃ nanorods for improved electrocapacitive performance. CrystEngComm, 2018, 20, 6683-6694.	2.6	26
16	Coupling Energy Capture and Storage – Endeavoring to make a solar battery. Scientific Reports, 2018, 8, 12752.	3.3	2
17	Methanol oxidation reaction on Pt based electrocatalysts modified ultramicroelectrode (UME): Novel electrochemical method for monitoring rate of CO adsorption. Electrochimica Acta, 2018, 286, 287-295.	5.2	14
18	Metal free, carbon-TiO ₂ based composites for the visible light photocatalysis. Solar Energy, 2017, 144, 127-133.	6.1	33

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19	Kinetic Analysis of the Oxygen Evolution Reaction (OER) Performed with a Cobalt-Phosphate Electrocatalyst. <i>ChemistrySelect</i> , 2017, 2, 3323-3328.	1.5	15
20	Structural, Electronic, and Optical Properties of $\text{Cu}_2\text{NiSnS}_4$: A Combined Experimental and Theoretical Study toward Photovoltaic Applications. <i>Chemistry of Materials</i> , 2017, 29, 3133-3142.	6.7	90
21	Electrochemical Evaluation of Dopant Energetics and the Modulation of Ultrafast Carrier Dynamics in Cu-Doped CdSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27233-27240.	3.1	21
22	<i>In situ</i> Electrochemical Transformation of Ni_3S_2 and $\text{Ni}_3\text{S}_2\text{-Ni}$ from Sheets to Nanodisks: Towards Efficient Electrocatalysis for Hydrogen Evolution Reaction (HER). <i>ChemistrySelect</i> , 2016, 1, 6708-6712.	1.5	11
23	Nitrogen doped Graphene Oxides as an efficient electrocatalyst for the Hydrogen evolution Reaction; Composition based Electrode Investigation. <i>Electrochimica Acta</i> , 2016, 200, 53-58.	5.2	16
24	CZTS Se^{1+} nanocrystals: Composition dependent method of preparation, morphological characterization and cyclic voltammetry data analysis. <i>Data in Brief</i> , 2016, 8, 1072-1079.	1.0	6
25	Nanostructured $\text{MoS}_2/\text{BiVO}_4$ Composites for Energy Storage Applications. <i>Scientific Reports</i> , 2016, 6, 36294.	3.3	54
26	Voltammetry investigation on copper zinc tin sulphide /selenide ($\text{CZTS}_x\text{Se}_{1-x}$) alloy nanocrystals: Estimation of composition dependent band edge parameters. <i>Solar Energy Materials and Solar Cells</i> , 2016, 155, 273-279.	6.2	21
27	Interaction of lead selenide with reduced graphene oxide: investigation through cyclic voltammetry and spectroscopy. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 12385-12391.	2.2	0
28	Biopolymer-Polyaniline Composite for a Wide Range Ammonia Gas Sensor. <i>IEEE Sensors Journal</i> , 2016, 16, 4318-4325.	4.7	29
29	Near room temperature approaches for the preparation of air-stable and crystalline $\text{CH}_3\text{NH}_3\text{PbI}_3$. <i>Materials Chemistry and Physics</i> , 2016, 173, 491-497.	4.0	1
30	Rudimentary simple method for the decoration of graphene oxide with silver nanoparticles: Their application for the amperometric detection of glucose in the human blood samples. <i>Electrochimica Acta</i> , 2015, 161, 108-114.	5.2	51
31	Electrocatalyst on Insulating Support?: Hollow Silica Spheres Loaded with Pt Nanoparticles for Methanol Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6590-6595.	8.0	60
32	Reduction of graphene oxide by 100 MeV Au ion irradiation and its application as H_2O_2 sensor. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 365105.	2.8	43
33	Molecular structures and biological evaluation of 2-chloro-3-(n-alkylamino)-1,4-naphthoquinone derivatives as potent antifungal agents. <i>Journal of Molecular Structure</i> , 2014, 1059, 68-74.	3.6	36
34	SWCNT/ BiVO_4 composites as anode materials for supercapacitor application. <i>RSC Advances</i> , 2014, 4, 17378-17381.	3.6	71
35	Agarose-guar gum assisted synthesis of processable polyaniline composite: morphology and electro-responsive characteristics. <i>RSC Advances</i> , 2014, 4, 59716-59725.	3.6	19
36	Size-dependent quantized double layer charging of monolayer-protected silver nanoparticles. <i>New Journal of Chemistry</i> , 2014, 38, 1761.	2.8	4

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37	Role of iron oxide impurities in electrocatalysis by multiwall carbon nanotubes: An investigation using a novel magnetically modified ITO electrodes. <i>Bulletin of Materials Science</i> , 2014, 37, 221-226.	1.7	4
38	Interaction between Quantum Dots of CdTe and Reduced Graphene Oxide: Investigation through Cyclic Voltammetry and Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20944-20950.	3.1	58
39	Synthesis and molecular structure of a zinc complex of the vitamin K3 analogue phthiocol. <i>Journal of Molecular Structure</i> , 2013, 1048, 223-229.	3.6	22
40	Band Gap Bowing at Nanoscale: Investigation of CdS _x Se _{1-x} Alloy Quantum Dots through Cyclic Voltammetry and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2013, 117, 7376-7383.	3.1	52
41	Room temperature synthesis of microemulsion mediated rutile TiO ₂ nanoparticles showing remarkable photocatalytic activity. <i>International Journal of Materials Research</i> , 2013, 104, 76-83.	0.3	2
42	Mapping of Electrocatalytic Sites on a Single Strand of Carbon Fiber Using Scanning Electrochemical Microscopy (SECM). <i>Journal of Physical Chemistry C</i> , 2012, 116, 9703-9708.	3.1	3
43	Interaction of reduced graphene oxide with free radicals and silver clusters. <i>Chemical Physics Letters</i> , 2012, 529, 54-58.	2.6	16
44	Quantum Confinement in CdTe Quantum Dots: Investigation through Cyclic Voltammetry Supported by Density Functional Theory (DFT). <i>Journal of Physical Chemistry C</i> , 2011, 115, 6243-6249.	3.1	134
45	Electrodics of methanol oxidation on Pt-f-multiwalled carbon nanotube composite, prepared by ¹³ C-radiolysis. <i>Electrochimica Acta</i> , 2011, 56, 2081-2086.	5.2	14
46	Catalytic activity and stability of silver supported on multiwalled carbon nanotubes. <i>International Journal of Nanotechnology</i> , 2011, 8, 988.	0.2	2
47	A facile methodology for the design of functionalized hollow silica spheres. <i>Journal of Colloid and Interface Science</i> , 2010, 346, 265-269.	9.4	25
48	Citrate-capped quantum dots of CdSe for the selective photometric detection of silver ions in aqueous solutions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 168, 60-65.	3.5	37
49	Fabrication, characterization and electrochemical performance of single strand carbon fiber prepared by catalytic chemical vapor decomposition method. <i>Electrochimica Acta</i> , 2010, 55, 2022-2028.	5.2	5
50	Self electro-catalysis of hydroquinone on gold electrode in aqueous un-buffered media. <i>Electrochemistry Communications</i> , 2009, 11, 994-996.	4.7	23
51	Room temperature synthesis of 1-hexanethiolate capped quantum dots, in Triton X-100 water-in-oil microemulsions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 337, 136-140.	4.7	14
52	Construction of Ag/AgCl Reference Electrode from Used Felt-Tipped Pen Barrel for Undergraduate Laboratory. <i>Journal of Chemical Education</i> , 2009, 86, 355.	2.3	20
53	Outer Sphere Electroreduction of CCl ₄ in 1-Butyl-3-methylimidazolium Tetrafluoroborate: An Example of Solvent Specific Effect of Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2848-2853.	2.6	40
54	Mechanistic aspects of nitrate ion reduction on silver electrode: estimation of Oâ€‘NO ₂ ⁺ bond dissociation energy using cyclic voltammetry. <i>New Journal of Chemistry</i> , 2009, 33, 207-210.	2.8	21

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55	New route for preparation of luminescent mercaptoethanoate capped cadmium selenide quantum dots. Bulletin of Materials Science, 2008, 31, 291-296.	1.7	10
56	Determination of Band Structure Parameters and the Quasi-Particle Gap of CdSe Quantum Dots by Cyclic Voltammetry. ChemPhysChem, 2008, 9, 2574-2579.	2.1	190
57	Electrochemical biosensor for catechol using agarose-guar gum entrapped tyrosinase. Journal of Biotechnology, 2007, 128, 80-85.	3.8	80
58	Semiconductor Electrodes. , 2007, , 329-389.		8
59	Micelle assisted morphological evolution of silver nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 301, 475-480.	4.7	44
60	Filling and coating of multiwalled carbon nanotubes with silver by DC electrophoresis. Carbon, 2007, 45, 2126-2129.	10.3	48
61	Synthesis of carbon nanotubes by catalytic vapor decomposition (CVD) method: Optimization of various parameters for the maximum yield. Pramana - Journal of Physics, 2007, 68, 51-60.	1.8	12
62	Synthesis and Characterization of Stable Organosols of Silver Nanoparticles by Electrochemical Dissolution of Silver in DMSO. Journal of Physical Chemistry B, 2006, 110, 20889-20894.	2.6	19
63	Development of electrochemical biosensor based on tyrosinase immobilized in composite biopolymeric film. Analytical Biochemistry, 2006, 349, 72-77.	2.4	99
64	Synthesis and Characterization of Uncapped Fe_2O_3 Nanoparticles Prepared by Flame Pyrolysis of Ferrocene in Ethanol. Journal of Nanoscience and Nanotechnology, 2006, 6, 2155-2158.	0.9	29
65	Controlled synthesis of Cu nanoparticles in fused silica and BK7 glasses using ion beam induced defects. Surface and Coatings Technology, 2005, 196, 96-99.	4.8	24
66	Highly resolved quantized double-layer charging of relatively larger dodecanethiol-passivated gold quantum dots. Journal of Applied Physics, 2004, 96, 5032-5036.	2.5	10
67	Synthesis and Characterization of Cd-DMSO Complex Capped CdS Nanoparticles. Chemistry of Materials, 2003, 15, 1296-1301.	6.7	53
68	Electrochemistry and Electrogenerated Chemiluminescence from Silicon Nanocrystal Quantum Dots. Science, 2002, 296, 1293-1297.	12.6	1,012
69	Electrochemistry of CdS Nanoparticles: A Correlation between Optical and Electrochemical Band Gaps. Journal of the American Chemical Society, 2001, 123, 8860-8861.	13.7	366
70	Scanning Electrochemical Microscopy. 42. Studies of the Kinetics and Photoelectrochemistry of Thin Film CdS/Electrolyte Interfaces. Journal of Physical Chemistry B, 2001, 105, 8192-8195.	2.6	47
71	Electrochemical Observation of a Metal/Insulator Transition by Scanning Electrochemical Microscopy. Journal of Physical Chemistry B, 2001, 105, 7474-7476.	2.6	72
72	Effect of Nonionic Surfactants on the Kinetics of Disproportion of Copper Sulfide Nanoparticles in the Aqueous Sols. Chemistry of Materials, 2001, 13, 1789-1793.	6.7	42

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73	Some aspects of the role of surfactants in the formation of nanoparticles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 133, 69-75.	4.7	138
74	Synthesis and Characterization of Copper Sulphide Nanoparticles in Aqueous Surfactant Solutions. Adsorption Science and Technology, 1998, 16, 667-677.	3.2	3
75	Chemical bath deposition of cubic copper (I) selenide and its room temperature transformation to the orthorhombic phase. Thin Solid Films, 1997, 302, 12-16.	1.8	79
76	Synthesis and Characterization of Copper Sulfide Nanoparticles in Triton-X 100 Water-in-Oil Microemulsions. The Journal of Physical Chemistry, 1996, 100, 5868-5873.	2.9	229
77	Photoelectrochemical responses of orthorhombic and cubic copper selenides. Journal of Electroanalytical Chemistry, 1995, 396, 63-68.	3.8	15
78	Electroless deposition of orthorhombic copper (I) selenide and its room temperature phase transformation to cubic structure. Thin Solid Films, 1994, 238, 21-26.	1.8	48
79	Electroless deposition on copper substrates and characterization of thin films of copper (I) selenide. Materials Research Bulletin, 1992, 27, 1185-1191.	5.2	53