

Sangaranarayanan Mv

List of Publications by Year in descending order

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46
papers

556
citations

687363

13
h-index

677142

22
g-index

47
all docs

47
docs citations

47
times ranked

842
citing authors

#	ARTICLE	IF	CITATIONS
1	Underpotential Deposition of Metals: A Structural and Thermodynamic Considerations. Journal of Physical Chemistry B, 2002, 106, 2699-2707.	2.6	60
2	Influence of the Work Function on Electron Transfer Processes at Metals: Application to the Hydrogen Evolution Reaction. Langmuir, 2002, 18, 5572-5578.	3.5	49
3	Electrodeposition of silver nanostructures: from polygons to dendrites. CrystEngComm, 2013, 15, 2052.	2.6	43
4	Hydrogen Evolution Reaction on Electrodes: Influence of Work Function, Dipolar Adsorption, and Desolvation Energies. Journal of Physical Chemistry B, 2002, 106, 8681-8688.	2.6	31
5	Detection of lead ions in picomolar concentration range using underpotential deposition on silver nanoparticles-deposited glassy carbon electrodes. Talanta, 2011, 85, 2142-2147.	5.5	31
6	Analysis of polypyrrole-coated stainless steel electrodes – Estimation of specific capacitances and construction of equivalent circuits. Journal of Chemical Sciences, 2008, 120, 25-31.	1.5	30
7	Electron transfer reactions at metal electrodes: Influence of work function on free energy of activation and exchange current density. Journal of Chemical Physics, 2001, 115, 6173-6178.	3.0	29
8	Charge Density Modulated Shape-Dependent Electrocatalytic Activity of Gold Nanoparticles for the Oxidation of Ascorbic Acid. Journal of Physical Chemistry C, 2015, 119, 23103-23112.	3.1	29
9	Mechanism and Regioselectivity of the Electrochemical Reduction in Polychlorobiphenyls (PCBs): Kinetic Analysis for the Successive Reduction of Chlorines from Dichlorobiphenyls. Journal of Physical Chemistry C, 2012, 116, 655-664.	3.1	20
10	Enzyme-Catalyzed Oxygen Reduction Reaction in Biofuel Cells: Analytical Expressions for Chronoamperometric Current Densities. Journal of the Electrochemical Society, 2015, 162, H671-H680.	2.9	18
11	Pulse electrodeposited nickel with structure directing agents as an electrocatalyst for oxidation of glycerol. New Journal of Chemistry, 2019, 43, 8352-8362.	2.8	18
12	Electroanalytical Sensor Based on Unmodified Screen-Printed Carbon Electrode for the Determination of Levothyroxine. Electroanalysis, 2015, 27, 360-367.	2.9	16
13	Non-Enzymatic Selective Determination of Catechol Using Copper Microparticles Modified Polypyrrole Coated Glassy Carbon Electrodes. Journal of the Electrochemical Society, 2017, 164, B274-B284.	2.9	14
14	Permselectivity and thickness-dependent ion transport properties of overoxidized polyaniline: a mechanistic investigation. Physical Chemistry Chemical Physics, 2016, 18, 30705-30720.	2.8	13
15	Nanomaterials at Liquid/Liquid Interfaces-A Review. Journal of Nanoscience and Nanotechnology, 2015, 15, 6863-6882.	0.9	11
16	Shape-controlled synthesis of three-dimensional triangular bismuth microstructures and sensing of H ₂ O ₂ . CrystEngComm, 2016, 18, 1147-1155.	2.6	9
17	Electrochemical Sensing of Anesthetics using Polythiophene Coated Glassy Carbon Electrodes. ChemistrySelect, 2019, 4, 9776-9783.	1.5	9
18	Stability of Scanning Tunneling Microscopy Tip-Induced Bimetallic Nanoclusters: Influence of Hardness and Composition on the Cohesive Energies. Journal of Physical Chemistry B, 2004, 108, 13944-13947.	2.6	8

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19	Dehydration Energies of Alkali Metal Halides. A New Simulation Methodology Involving Mean Nearest Neighbor Distances and Thermodynamic Forces. <i>Langmuir</i> , 2004, 20, 1871-1876.	3.5	8
20	Perturbation expansions and series acceleration procedures. Part I. $\hat{\mu}$ -convergence and critical parameters. <i>Pramana - Journal of Physics</i> , 1984, 22, 183-201.	1.8	7
21	Anion-induced adsorption of thallium complex on silver electrodes. <i>Journal of Colloid and Interface Science</i> , 2005, 282, 92-101.	9.4	7
22	Electrochemical Sensing of Nitrite Ions Using Tin ^{II} -Submicroparticles Modified Glassy Carbon Electrodes. <i>Electroanalysis</i> , 2014, 26, 2358-2364.	2.9	7
23	Shape-Controlled Synthesis of Palladium Nanostructures from Flowers to Thorns: Electrocatalytic Oxidation of Ethanol. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 758-769.	0.9	7
24	Perturbation expansions and series acceleration procedures: Part-II. Extrapolation techniques. <i>Pramana - Journal of Physics</i> , 1984, 22, 407-419.	1.8	6
25	Dynamics of competing diffusion processes in a bias electric field: kinetic Ising model approach and phenomenological descriptions. <i>Journal of Physics A</i> , 1998, 31, 7671-7683.	1.6	6
26	Condensation of Nucleobases at Mercury/Aqueous Solution Interface—A Structural Perspective Using Hydrogen Bonding Considerations. <i>Journal of Colloid and Interface Science</i> , 2002, 250, 201-212.	9.4	6
27	Reduction of mono- and dichlorobiphenyls with sodium-naphthalene complex. <i>Russian Journal of General Chemistry</i> , 2010, 80, 800-808.	0.8	6
28	Lattice models for dipolar adsorption at metal/electrolyte interfaces using Bethe approximation. <i>Journal of Chemical Physics</i> , 1996, 105, 4284-4288.	3.0	5
29	Hardness of metals from electron transfer reactions at electrode surfaces. <i>Journal of Chemical Physics</i> , 2002, 117, 8959-8965.	3.0	5
30	Estimation of exchange current density for ferric/ferrous reaction at electrode surfaces—influence of ionic desolvation and dipolar adsorption. <i>Journal of Colloid and Interface Science</i> , 2004, 273, 247-255.	9.4	5
31	Nonequilibrium Thermodynamics Formalism for Marcus Theory of Heterogeneous and Self-Exchange Electron-Transfer Rate Constants. <i>Journal of Physical Chemistry A</i> , 2008, 112, 4308-4313.	2.5	5
32	Mechanistic Analysis of the Reductive Cleavage of Carbon—Halogen Bonds in Halopentafluorobenzenes. <i>Journal of the Electrochemical Society</i> , 2009, 156, F23.	2.9	5
33	Metal-polymer composites at liquid/liquid interfaces: new morphological investigations using ex situ and in situ studies. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	5
34	Thiourea linked glycolipid-assisted synthesis of sub-micrometer sized polyaniline spheres for enzyme less sensing of dopamine. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 439-449.	2.9	5
35	Shape-controlled electrodeposition of silver using chitosan as structure-directing agent on disposable pencil graphite electrodes: low-cost electrocatalysts for the detection of hydrogen peroxide and hydrazine hydrate. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2773-2788.	2.5	5
36	A simple simulation methodology for estimation of dehydration energies and surface potentials of concentrated NaCl solutions. <i>Journal of Colloid and Interface Science</i> , 2004, 280, 139-148.	9.4	4

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37	Partition function of nearest neighbour Ising models: Some new insights. <i>Journal of Chemical Sciences</i> , 2009, 121, 595-599.	1.5	4
38	Analysis of Electron Transfer Processes Across Liquid/Liquid Interfaces: Estimation of Free Energy of Activation Using Diffuse Boundary Model. <i>Langmuir</i> , 2006, 22, 1347-1355.	3.5	2
39	Adsorption of Enantiomers on Metal Surfaces: Application to D- and L-Alanine on Cu, Ni and Zn Electrodes. <i>Journal of the Electrochemical Society</i> , 2013, 160, G102-G110.	2.9	2
40	Micro-nanoarchitectures of electrodeposited Ni-ITO nanocomposites on copper foil as electrocatalysts for the oxygen evolution reaction. <i>New Journal of Chemistry</i> , 2021, 45, 5146-5153.	2.8	2
41	Estimation of electrochemical quartz crystal microbalance frequencies from cyclic voltammetric data: underpotential deposition of metals as an illustration. <i>Journal of Solid State Electrochemistry</i> , 2005, 9, 621-626.	2.5	1
42	4-Bromo-2,6-dichloroaniline. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o758-o759.	0.2	1
43	Differential capacitance of liquid/liquid interfaces: A lattice gas model approach. <i>Journal of Colloid and Interface Science</i> , 2006, 296, 624-633.	9.4	1
44	5-Bromo-1,3-dichloro-2-iodobenzene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004, 60, o1933-o1934.	0.2	0
45	Partition function of the two-dimensional nearest neighbour Ising models for finite lattices in a non-zero magnetic field#. <i>Journal of Chemical Sciences</i> , 2012, 124, 105-113.	1.5	0
46	Grand Canonical Monte Carlo coupled multiscale simulation for electrochemical and solvent parameters of silver halide systems in water. <i>Journal of Molecular Graphics and Modelling</i> , 2016, 68, 140-146.	2.4	0