

Sathish Ponnurangam

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

854
citations

623734

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h-index

501196

28
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31
all docs

31
docs citations

31
times ranked

1426
citing authors

#	ARTICLE	IF	CITATIONS
1	On the origin of the elusive first intermediate of CO ₂ electroreduction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E9261-E9270.	7.1	308
2	Adsorption of Fatty Acids on Iron (Hydr)oxides from Aqueous Solutions. Langmuir, 2011, 27, 10007-10018.	3.5	69
3	Atomistic MD Study of Nafion Dispersions: Role of Solvent and Counterion in the Aggregate Structure, Ionic Clustering, and Acid Dissociation. Macromolecules, 2020, 53, 288-301.	4.8	52
4	Linking interfacial chemistry of CO ₂ to surface structures of hydrated metal oxide nanoparticles: hematite. Physical Chemistry Chemical Physics, 2013, 15, 6953.	2.8	42
5	Nitrogen-containing polymers as a platform for CO ₂ electroreduction. Advances in Colloid and Interface Science, 2017, 244, 184-198.	14.7	41
6	Robust Electroreduction of CO ₂ at a Poly(4-vinylpyridine)-Copper Electrode. ChemElectroChem, 2016, 3, 74-82.	3.4	40
7	Nanoparticles: Characteristics, Mechanisms and Modulation of Biototoxicity. KONA Powder and Particle Journal, 2010, 28, 38-49.	1.7	34
8	Effect of nanosize on catalytic properties of ferric (hydr)oxides in water: Mechanistic insights. Journal of Catalysis, 2011, 282, 25-34.	6.2	34
9	Beneficial Effects of Cerium Oxide Nanoparticles in Development of Chondrocyte-Seeded Hydrogel Constructs and Cellular Response to Interleukin Insults. Tissue Engineering - Part A, 2014, 20, 2908-2919.	3.1	26
10	Foam flotation of rare earth elements by conventional and green surfactants. Minerals Engineering, 2020, 158, 106585.	4.3	24
11	Activation of CO ₂ at the electrode-electrolyte interface by a co-adsorbed cation and an electric field. Physical Chemistry Chemical Physics, 2019, 21, 8797-8807.	2.8	22
12	Catalytic synthesis of mixed alcohols mediated with nano-MoS ₂ microemulsions. Fuel, 2016, 164, 339-346.	6.4	21
13	Rational Design of Interfacial Properties of Ferric (Hydr)oxide Nanoparticles by Adsorption of Fatty Acids from Aqueous Solutions. Langmuir, 2012, 28, 10661-10671.	3.5	19
14	Tailoring (Bio)chemical Activity of Semiconducting Nanoparticles: Critical Role of Deposition and Aggregation. Journal of the American Chemical Society, 2011, 133, 9536-9544.	13.7	14
15	Efficient Synthesis and Characterization of Robust MoS ₂ and S Cathode for Advanced Li-S Battery: Combined Experimental and Theoretical Studies. ACS Applied Materials & Interfaces, 2019, 11, 35729-35737.	8.0	14
16	Cytotoxicity, cellular localization and photophysical properties of Re(I) tricarbonyl complexes bound to cysteine and its derivatives. Journal of Biological Inorganic Chemistry, 2020, 25, 759-776.	2.6	14
17	A global design principle for polysulfide electrocatalysis in lithium-sulfur batteries: A computational perspective. , 2022, 1, .		13
18	Stabilization of Silicon Carbide (SiC) micro- and nanoparticle dispersions in the presence of concentrated electrolyte. Journal of Colloid and Interface Science, 2014, 423, 48-53.	9.4	12

#	ARTICLE	IF	CITATIONS
19	Promoting Effect of Supports with Oxygen Vacancies as Extrinsic Defects on the Reduction of Iron Oxide. <i>Journal of Physical Chemistry C</i> , 2021, 125, 14299-14310.	3.1	11
20	Biocompatibility of polysebacic anhydride microparticles with chondrocytes in engineered cartilage. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 136, 207-213.	5.0	9
21	Ligand-centered electrochemical processes enable CO ₂ reduction with a nickel bis(triazapentadienyl) complex. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1172-1181.	4.9	7
22	Effects of support and oxygen vacancies on the energetics of NiO reduction with H ₂ for the chemical looping combustion (CLC) reaction; a DFT study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12795-12806.	2.8	7
23	Facet-Engineered Tungsten Disulfide for Promoting Polysulfide Electrocatalysis in Lithium-Sulfur Batteries. <i>Inorganic Chemistry</i> , 2021, 60, 12883-12892.	4.0	7
24	Surface Functionalization-Induced Effects on Nanoparticle Dispersion and Associated Changes in the Thermophysical Properties of Polymer Nanocomposites. <i>Macromolecules</i> , 2021, 54, 3962-3971.	4.8	5
25	Selective Recovery of Critical and Toxic Elements from Their Low-Concentrated Solutions Using Surface-Based Electrochemical Separation Methods. <i>ACS Symposium Series</i> , 2020, , 115-165.	0.5	3
26	Insight into MgO-supported NiO reactivity from atomic-scale electronegativity for oxygen carrier design and catalyst production applications. <i>Catalysis Today</i> , 2022, 404, 244-252.	4.4	3
27	Progress in Capacitive Deionization for Desalination of Brackish Water: A Materials Perspective. <i>ACS Symposium Series</i> , 2020, , 91-113.	0.5	1
28	Electrochemistry of new generation conformal polyaniline/carbon scaffolds with monodispersed nanopores and high capacitance. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2271-2280.	5.5	1
29	A Novel Metal-Free Robust Recyclable Electrosorbent for Removal Pb(II) from Low Concentrated Solutions in Complex Aqueous Matrices. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
30	Ionomer Aggregation in Dispersions: Revealing the Role of Solvent By a Fully Atomistic MD Study. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0