Sathish Ponnurangam

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/494702/publications.pdf

Version: 2024-02-01

30 papers	854 citations	623734 14 h-index	501196 28 g-index
31 all docs	31 docs citations	31 times ranked	1426 citing authors

#	Article	IF	Citations
1	Electrochemistry of new generation conformal polyaniline/carbon scaffolds with monodispersed nanopores and high capacitance. Journal of Materials Chemistry C, 2022, 10, 2271-2280.	5.5	1
2	Insight into MgO-supported NiO reactivity from atomic-scale electronegativity for oxygen carrier design and catalyst production applications. Catalysis Today, 2022, 404, 244-252.	4.4	3
3	A global design principle for polysulfide electrocatalysis in lithiumâ€“sulfur batteriesâ€”A computational perspective. , 2022, 1, .		13
4	Effects of support and oxygen vacancies on the energetics of NiO reduction with H₂ for the chemical looping combustion (CLC) reaction; a DFT study. Physical Chemistry Chemical Physics, 2021, 23, 12795-12806.	2.8	7
5	Surface Functionalization-Induced Effects on Nanoparticle Dispersion and Associated Changes in the Thermophysical Properties of Polymer Nanocomposites. Macromolecules, 2021, 54, 3962-3971.	4.8	5
6	Promoting Effect of Supports with Oxygen Vacancies as Extrinsic Defects on the Reduction of Iron Oxide. Journal of Physical Chemistry C, 2021, 125, 14299-14310.	3.1	11
7	Facet-Engineered Tungsten Disulfide for Promoting Polysulfide Electrocatalysis in Lithiumâ€“Sulfur Batteries. Inorganic Chemistry, 2021, 60, 12883-12892.	4.0	7
8	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
9	Foam flotation of rare earth elements by conventional and green surfactants. Minerals Engineering, 2020, 158, 106585.	4.3	24
10	Progress in Capacitive Deionization for Desalination of Brackish Water: A Materials Perspective. ACS Symposium Series, 2020, , 91-113.	0.5	1
11	Selective Recovery of Critical and Toxic Elements from Their Low-Concentrated Solutions Using Surface-Based Electrochemical Separation Methods. ACS Symposium Series, 2020, , 115-165.	0.5	3
12	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
13	Efficient Synthesis and Characterization of Robust MoS₂ and S Cathode for Advanced Liâ€“S Battery: Combined Experimental and Theoretical Studies. ACS Applied Materials & Interfaces, 2019, 11, 35729-35737.	8.0	14
14	Ligand-centered electrochemical processes enable CO₂ reduction with a nickel bis(triazapentadienyl) complex. Sustainable Energy and Fuels, 2019, 3, 1172-1181.	4.9	7
15	Activation of CO₂ at the electrodeâ€“electrolyte interface by a co-adsorbed cation and an electric field. Physical Chemistry Chemical Physics, 2019, 21, 8797-8807.	2.8	22
16	A Novel Metal-Free Robust Recyclable Electrosorbent for Removal Pb(II) from Low Concentrated Solutions in Complex Aqueous Matrices. ECS Meeting Abstracts, 2019, , .	0.0	0
17	Ionomer Aggregation in Dispersions: Revealing the Role of Solvent By a Fully Atomistic MD Study. ECS Meeting Abstracts, 2019, , .	0.0	0
18	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

#	Article	IF	Citations
19	Nitrogen-containing polymers as a platform for CO2 electroreduction. Advances in Colloid and Interface Science, 2017, 244, 184-198.	14.7	41
20	Robust Electroreduction of CO₂ at a Poly(4â€vinylpyridine)â€“Copper Electrode. ChemElectroChem, 2016, 3, 74-82.	3.4	40
21	Catalytic synthesis of mixed alcohols mediated with nano-MoS2 microemulsions. Fuel, 2016, 164, 339-346.	6.4	21
22	Biocompatibility of polysebacic anhydride microparticles with chondrocytes in engineered cartilage. Colloids and Surfaces B: Biointerfaces, 2015, 136, 207-213.	5.0	9
23	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
24	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
25	Linking interfacial chemistry of CO2 to surface structures of hydrated metal oxide nanoparticles: hematite. Physical Chemistry Chemical Physics, 2013, 15, 6953.	2.8	42
26	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
27	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
28	Adsorption of Fatty Acids on Iron (Hydr)oxides from Aqueous Solutions. Langmuir, 2011, 27, 10007-10018.	3.5	69
29	Effect of nanosize on catalytic properties of ferric (hydr)oxides in water: Mechanistic insights. Journal of Catalysis, 2011, 282, 25-34.	6.2	34
30	Nanoparticles: Characteristics, Mechanisms and Modulation of Biotoxicity. KONA Powder and Particle Journal, 2010, 28, 38-49.	1.7	34