

Thangarasu Sadhasivam

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,630
citations

430754

18
h-index

315616

38
g-index

40
all docs

40
docs citations

40
times ranked

1823
citing authors

#	ARTICLE	IF	CITATIONS
1	A comprehensive review on microbial fuel cell technologies: Processes, utilization, and advanced developments in electrodes and membranes. <i>Journal of Cleaner Production</i> , 2019, 221, 598-621.	4.6	363
2	Dimensional effects of nanostructured Mg/MgH ₂ for hydrogen storage applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 72, 523-534.	8.2	272
3	Effects of nano size mischmetal and its oxide on improving the hydrogen sorption behaviour of MgH ₂ . <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7353-7362.	3.8	125
4	Ternary Composite Nanosheets with MoS ₂ /WS ₂ /Graphene Heterostructures as High-Performance Cathode Materials for Supercapacitors. <i>ChemElectroChem</i> , 2018, 5, 1024-1031.	1.7	112
5	A comprehensive review on unitized regenerative fuel cells: Crucial challenges and developments. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 4415-4433.	3.8	109
6	Hydrogen uptake of reduced graphene oxide and graphene sheets decorated with Fe nanoclusters. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 8311-8320.	3.8	63
7	Effect of different sized CeO ₂ nano particles on decomposition and hydrogen absorption kinetics of magnesium hydride. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 6221-6225.	3.8	52
8	High ionic selectivity of low permeable organic composite membrane with amphiphilic polymer for vanadium redox flow batteries. <i>Solid State Ionics</i> , 2018, 324, 69-76.	1.3	46
9	Tuning the Ion Selectivity and Chemical Stability of a Biocellulose Membrane by PFSA Ionomer Reinforcement for Vanadium Redox Flow Battery Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2040-2051.	3.2	40
10	Positive electrode active material development opportunities through carbon addition in the lead-acid batteries: A recent progress. <i>Journal of Power Sources</i> , 2021, 485, 229336.	4.0	40
11	Low permeable composite membrane based on sulfonated poly(phenylene oxide) (sPPO) and silica for vanadium redox flow battery. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 19035-19043.	3.8	36
12	Electro-analytical performance of bifunctional electrocatalyst materials in unitized regenerative fuel cell system. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 18169-18184.	3.8	35
13	High charge acceptance through interface reaction on carbon coated negative electrode for advanced lead-carbon battery system. <i>Electrochimica Acta</i> , 2019, 295, 367-375.	2.6	34
14	Nanoconfinement and Interfacial Effect of Pb Nanoparticles into Nanoporous Carbon as a Longer-Lifespan Negative Electrode Material for Hybrid Lead-Carbon Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 8868-8879.	3.2	29
15	Graphitized carbon as an efficient mesoporous layer for unitized regenerative fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 18226-18230.	3.8	23
16	Investigation on physico-chemical and electrochemical performance of poly(phenylene oxide)-based anion exchange membrane for vanadium redox flow battery systems. <i>Electrochimica Acta</i> , 2019, 325, 134944.	2.6	23
17	Carbon free SiO ₂ -SO ₃ H supported Pt bifunctional electrocatalyst for unitized regenerative fuel cells. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20650-20659.	3.8	22
18	Progress in poly(phenylene oxide) based cation exchange membranes for fuel cells and redox flow batteries applications. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 38381-38415.	3.8	21

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19	High Oxidizing Stability and Ion Selectivity of Hybrid Polymer Electrolyte Membrane for Improving Electrochemical Performance in Vanadium Redox Flow Battery. <i>Journal of the Electrochemical Society</i> , 2018, 165, A2321-A2329.	1.3	18
20	Development of perfluorosulfonic acid polymer-based hybrid composite membrane with alkoxy silane functionalized polymer for vanadium redox flow battery. <i>International Journal of Energy Research</i> , 2020, 44, 1999-2010.	2.2	18
21	A new strategy of carbon @ Pb composite as a bipolar plate material for unitized regenerative fuel cell system. <i>Electrochimica Acta</i> , 2021, 391, 138921.	2.6	17
22	Novel core-shell structure of a lead-activated carbon (Pb@AC) for advanced lead-acid battery systems. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 10349-10356.	1.1	16
23	The Role of Nanoparticles, Catalytic Additives and Alternative/Advanced Techniques on Magnesium Hydride. <i>Advanced Science, Engineering and Medicine</i> , 2015, 7, 1-17.	0.3	16
24	Techno-Economical Feasibility of Biocellulose Membrane along with Polyethylene Film as a Separator for Lead-Acid Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 8789-8797.	3.2	13
25	Preparation and characterization of Pb nanoparticles on mesoporous carbon nanostructure for advanced lead-acid battery applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5669-5674.	1.1	12
26	Ionic transportation and chemical stability of high-endurance porous polyethylene separator for vanadium redox flow batteries. <i>Solid State Ionics</i> , 2018, 327, 110-116.	1.3	9
27	Advances in Metal-Organic Ligand Systems for Polymer Electrolyte Membranes: A Review. <i>Fuel Cells</i> , 2017, 17, 278-287.	1.5	8
28	Recovery of spent VOSO ₄ using an organic ligand for vanadium redox flow battery applications. <i>Journal of Hazardous Materials</i> , 2020, 399, 123047.	6.5	8
29	An alternative platform of solid-state hydrides with polymers as composite/encapsulation for hydrogen storage applications: Effects in intermetallic and complex hydrides. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 21429-21450.	3.8	8
30	Impact of Polymers on Magnesium-Based Hydrogen Storage Systems. <i>Polymers</i> , 2022, 14, 2608.	2.0	8
31	Investigations of FeCl ₃ adducted N-heterocyclic carbene complex as curing-delayed action catalyst for polyurethane polymerization. <i>Journal of Catalysis</i> , 2020, 382, 77-85.	3.1	7
32	Feasibilities and electrochemical performance of surface-modified polyester separator for Lead-acid battery applications. <i>Electrochimica Acta</i> , 2021, 388, 138390.	2.6	7
33	Highly conductive current collector for enhancing conductivity and power supply of flexible thin-film Zn-MnO ₂ battery. <i>Energy</i> , 2021, 221, 119856.	4.5	6
34	Poly(styrene)-supported N-heterocyclic carbene coordinated iron chloride as a catalyst for delayed polyurethane polymerization. <i>RSC Advances</i> , 2018, 8, 37339-37347.	1.7	3
35	Removal of Hazardous Hydrogen Fluoride (HF) from Water Through Homogeneous Nanostructured CaO-SiO ₂ Sorbents: Optimization of Binder. <i>Water, Air, and Soil Pollution</i> , 2018, 229, 1.	1.1	3
36	A novel structured nanosized CaO on nanosilica surface as an alternative solid reducing agent for hydrogen fluoride removal from industrial waste water. <i>Journal of Environmental Management</i> , 2019, 231, 1076-1081.	3.8	3

#	ARTICLE	IF	CITATIONS
37	An experimental investigation of the feasibility of Pb based bipolar plate material for unitized regenerative fuel cells system. International Journal of Hydrogen Energy, 2020, 45, 13101-13107.	3.8	3
38	A Facile Synthesis and Thermal Properties of Graphene Oxide-Mischmetal Oxide Nanocomposites. Journal of Nanoscience and Nanotechnology, 2015, 15, 5676-5683.	0.9	1
39	Efficient solid reducing agent CaO/SiO ₂ hybrid composite for hydrogen fluoride elimination. Advanced Composite Materials, 0, , 1-13.	1.0	1
40	Nanostructured bifunctional electrocatalyst support materials for unitized regenerative fuel cells. , 2020, , 69-103.		0