

Mohammed Harun Chakrabarti

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

4,275
citations

186209

28
h-index

189801

50
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all docs

52
docs citations

52
times ranked

5358
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge Carrier Molecular Sieve (CCMS) Membranes with Anti-aging Effect for Long-Life Vanadium Redox Flow Batteries. <i>ACS Applied Energy Materials</i> , 2022, 5, 1505-1515.	2.5	9
2	A cost-effective alkaline polysulfide-air redox flow battery enabled by a dual-membrane cell architecture. <i>Nature Communications</i> , 2022, 13, 2388.	5.8	15
3	Modern practices in electrophoretic deposition to manufacture energy storage electrodes. <i>International Journal of Energy Research</i> , 2022, 46, 13205-13250.	2.2	17
4	Practical aspects of electrophoretic deposition to produce commercially viable supercapacitor energy storage electrodes. <i>RSC Advances</i> , 2021, 11, 20641-20650.	1.7	7
5	Trichome-like Carbon-Metal Fabrics Made of Carbon Microfibers, Carbon Nanotubes, and Fe-Based Nanoparticles as Electrodes for Regenerative Hydrogen/Vanadium Flow Cells. <i>ACS Applied Nano Materials</i> , 2021, 4, 10754-10763.	2.4	7
6	Modelling of redox flow battery electrode processes at a range of length scales: a review. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5433-5468.	2.5	29
7	Hybrid Redox Flow Cells with Enhanced Electrochemical Performance via Binderless and Electrophoretically Deposited Nitrogen-Doped Graphene on Carbon Paper Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 53869-53878.	4.0	19
8	Evaluation of a Non-Aqueous Vanadium Redox Flow Battery Using a Deep Eutectic Solvent and Graphene-Modified Carbon Electrodes via Electrophoretic Deposition. <i>Batteries</i> , 2020, 6, 38.	2.1	21
9	Hydrogen/functionalized benzoquinone for a high-performance regenerative fuel cell as a potential large-scale energy storage platform. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3933-3941.	5.2	27
10	Practical Aspect of Electrophoretic Deposition to Produce Commercially Viable Activated Carbon Supercapacitor Electrode. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 3783-3783.	0.0	1
11	Charge/discharge and cycling performance of flexible carbon paper electrodes in a regenerative hydrogen/vanadium fuel cell. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30093-30107.	3.8	14
12	Characterization of a Regenerative Hydrogen-Vanadium Fuel Cell Using an Experimentally Validated Unit Cell Model. <i>Journal of the Electrochemical Society</i> , 2019, 166, A3511-A3524.	1.3	8
13	Screening of effective electrolyte additives for zinc-based redox flow battery systems. <i>Journal of Power Sources</i> , 2019, 412, 44-54.	4.0	54
14	Uncovering the mechanisms of electrolyte permeation in porous electrodes for redox flow batteries through real time <i>in situ</i> 3D imaging. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2068-2080.	2.5	34
15	Performance Enhancement of Reduced Graphene Oxide-Modified Carbon Electrodes for Vanadium Redox-Flow Systems. <i>ChemElectroChem</i> , 2017, 4, 194-200.	1.7	17
16	Investigation of Ammonium- and Phosphonium-Based Deep Eutectic Solvents as Electrolytes for a Non-Aqueous All-Vanadium Redox Cell. <i>Journal of the Electrochemical Society</i> , 2016, 163, A632-A638.	1.3	37
17	The Effect of Temperature on Kinetics and Diffusion Coefficients of Metallocene Derivatives in Polyol-Based Deep Eutectic Solvents. <i>PLoS ONE</i> , 2015, 10, e0144235.	1.1	33
18	Mathematical modelling and experimental validation of an anode-supported tubular solid oxide fuel cell for heat and power generation. <i>Energy</i> , 2015, 90, 1759-1768.	4.5	13

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19	One Dimensional Mathematical Modelling of the All-Vanadium and Vanadium/Oxygen Redox Flow Batteries. ECS Transactions, 2015, 66, 1-23.	0.3	7
20	Temperature Effects on the Kinetics of Ferrocene and Cobaltocenium in Methyltriphenylphosphonium Bromide Based Deep Eutectic Solvents. Journal of the Electrochemical Society, 2015, 162, H617-H624.	1.3	6
21	The Influence of Ziegler-Natta and Metallocene Catalysts on Polyolefin Structure, Properties, and Processing Ability. Materials, 2014, 7, 5069-5108.	1.3	135
22	An enhancement to Vynnycky's model for the all-vanadium redox flow battery. Electrochimica Acta, 2014, 120, 167-179.	2.6	51
23	Prospects of applying ionic liquids and deep eutectic solvents for renewable energy storage by means of redox flow batteries. Renewable and Sustainable Energy Reviews, 2014, 30, 254-270.	8.2	212
24	Redox Flow Battery for Energy Storage. Arabian Journal for Science and Engineering, 2013, 38, 723-739.	1.1	64
25	Technical Evaluation of Pongame and Jatropha B20 Fuels in Pakistan. Arabian Journal for Science and Engineering, 2013, 38, 759-766.	1.1	4
26	The electrochemical behaviour of ferrocene in deep eutectic solvents based on quaternary ammonium and phosphonium salts. Physical Chemistry Chemical Physics, 2013, 15, 1707-1714.	1.3	53
27	Thermal stress management of a solid oxide fuel cell using neural network predictive control. Energy, 2013, 62, 320-329.	4.5	56
28	Fuel blending effects on the co-gasification of coal and biomass – A review. Biomass and Bioenergy, 2013, 57, 249-263.	2.9	123
29	Cyclic Voltammetry of Metallic Acetylacetonate Salts in Quaternary Ammonium and Phosphonium Based Deep Eutectic Solvents. Journal of Solution Chemistry, 2013, 42, 2329-2341.	0.6	22
30	Physicochemical properties of ammonium-based deep eutectic solvents and their electrochemical evaluation using organometallic reference redox systems. Electrochimica Acta, 2013, 113, 205-211.	2.6	90
31	The application of nano-crystalline PbO ₂ as an anode for the simultaneous bio-electrochemical denitrification and organic matter removal in an up-flow undivided reactor. Electrochimica Acta, 2013, 94, 327-335.	2.6	35
32	Electrochemical approaches to the production of graphene flakes and their potential applications. Carbon, 2013, 54, 1-21.	5.4	285
33	Progress in the electrochemical modification of graphene-based materials and their applications. Electrochimica Acta, 2013, 107, 425-440.	2.6	112
34	A review on the effect of bio-electrodes on denitrification and organic matter removal processes in bio-electrochemical systems. Journal of Industrial and Engineering Chemistry, 2013, 19, 1-13.	2.9	90
35	Kinetic analysis on thermo-gravimetric profiles of pulverised coal pyrolysis and gasification under different oxygen environments. Canadian Journal of Chemical Engineering, 2013, 91, 1936-1944.	0.9	8
36	Dynamic modelling and sensitivity analysis of a tubular SOFC fuelled with NH ₃ as a possible replacement for H ₂ . Chemical Engineering Research and Design, 2012, 90, 1871-1882.	2.7	27

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37	Status of biodiesel research and development in Pakistan. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 4396-4405.	8.2	31
38	Modeling of a Tubular SOFC: The Effect of the Thermal Radiation of Fuel Components and CO Participating in the Electrochemical Process. <i>Fuel Cells</i> , 2012, 12, 761-772.	1.5	9
39	The effect of temperature on various parameters in coal, biomass and CO-gasification: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 5584-5596.	8.2	274
40	Hydrogen production by <i>Chlamydomonas reinhardtii</i> in a two-stage process with and without illumination at alkaline pH. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 4930-4934.	3.8	33
41	Removal of total ammonia nitrogen (TAN), nitrate and total organic carbon (TOC) from aquaculture wastewater using electrochemical technology: A review. <i>Desalination</i> , 2012, 285, 1-13.	4.0	393
42	Kinetics of gasification of coal, biomass and their blends in air (N ₂ /O ₂) and different oxy-fuel (O ₂ /CO ₂) atmospheres. <i>Energy</i> , 2012, 37, 665-672.	4.5	64
43	Performance evaluation of biodiesel from used domestic waste oils: A review. <i>Chemical Engineering Research and Design</i> , 2012, 90, 164-179.	2.7	86
44	All-Chromium Redox Flow Battery for Renewable Energy Storage. <i>International Journal of Green Energy</i> , 2011, 8, 248-264.	2.1	45
45	Progress in Flow Battery Research and Development. <i>Journal of the Electrochemical Society</i> , 2011, 158, R55.	1.3	1,208
46	Ruthenium based redox flow battery for solar energy storage. <i>Energy Conversion and Management</i> , 2011, 52, 2501-2508.	4.4	78
47	Techno-economic comparison between B10 of <i>Eruca sativa</i> L. and other indigenous seed oils in Pakistan. <i>Chemical Engineering Research and Design</i> , 2011, 89, 165-171.	2.7	47
48	Use of a membrane bioreactor in effluent treatment from electroplating industry: Oil and grease. , 2011, , .		0
49	Charge/Discharge Performance of a Novel Undivided Redox Flow Battery for Renewable Energy Storage. <i>International Journal of Green Energy</i> , 2010, 7, 445-460.	2.1	29
50	A membrane free electrochemical cell using porous flow-through graphite felt electrodes. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 637-644.	1.5	20
51	Evaluation of electrolytes for redox flow battery applications. <i>Electrochimica Acta</i> , 2007, 52, 2189-2195.	2.6	216