

Mrinmay Mandal

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

38
papers

933
citations

17
h-index

30
g-index

43
ext. papers

1,272
ext. citations

5
avg, IF

5.46
L-index

#	Paper	IF	Citations
38	Understanding and improving anode performance in an alkaline membrane electrolyzer using statistical design of experiments. <i>Electrochimica Acta</i> , 2022 , 409, 140001	6.7	3
37	Novel phosphonated polymer without anhydride formation for proton exchange membrane fuel cells. <i>Journal of Energy Chemistry</i> , 2022 , 65, 469-471	12	0
36	Self-adhesive ionomers for durable low-temperature anion exchange membrane electrolysis. <i>Journal of Power Sources</i> , 2022 , 536, 231495	8.9	1
35	Recent Advancement on Anion Exchange Membranes for Fuel Cell and Water Electrolysis. <i>ChemElectroChem</i> , 2021 , 8, 36-45	4.3	21
34	Co2O3 and MnO2 as inexpensive catalysts for the ring-opening polymerization of cyclic esters. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	3
33	Homoleptic titanium and zirconium complexes exhibiting unusual Oiminoligand metal coordination: application in stereoselective ring-opening polymerization of lactide. <i>Polymer Chemistry</i> , 2021 , 12, 3953-3967	4.9	3
32	Ionomer Optimization for Water Uptake and Swelling in Anion Exchange Membrane Electrolyzer: Hydrogen Evolution Electrode. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 024503	3.9	9
31	Editors' Choice Power-Generating Electrochemical CO2 Scrubbing from Air Enabling Practical AEMFC Application. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 024504	3.9	4
30	Highly Efficient Bipolar Membrane CO2 Electrolysis. <i>ChemElectroChem</i> , 2021 , 8, 1448-1450	4.3	1
29	CO2 Electroreduction to Multicarbon Products. <i>ChemElectroChem</i> , 2020 , 7, 3713-3715	4.3	2
28	Zirconium and Hafnium Complexes Bearing Salen Ligands for the Polymerization of Ethylene. <i>Polymer Science - Series B</i> , 2020 , 62, 597-601	0.8	3
27	Ionomer Optimization for Water Uptake and Swelling in Anion Exchange Membrane Electrolyzer: Oxygen Evolution Electrode. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 164514	3.9	14
26	Group 4 complexes as catalysts for the transformation of CO2 into polycarbonates and cyclic carbonates. <i>Journal of Organometallic Chemistry</i> , 2020 , 907, 121067	2.3	15
25	Integrated CO capture and one-pot production of methanol. <i>Dalton Transactions</i> , 2020 , 49, 17140-17142	4.3	1
24	Poly(norbornene) anion conductive membranes: homopolymer, block copolymer and random copolymer properties and performance. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17568-17578	13	40
23	Achieving High-Performance and 2000 h Stability in Anion Exchange Membrane Fuel Cells by Manipulating Ionomer Properties and Electrode Optimization. <i>Advanced Energy Materials</i> , 2020 , 10, 2001986	21.8	87
22	Novel Electrocatalyst for Alkaline Membrane Water Electrolysis. <i>ChemElectroChem</i> , 2020 , 7, 4303-4305	4.3	3

21	The Importance of Water Transport in High Conductivity and High-Power Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 054501	3.9	69
20	Influence of Water Transport Across Microscale Bipolar Interfaces on the Performance of Direct Borohydride Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4449-4456	6.1	22
19	Composite Poly(norbornene) Anion Conducting Membranes for Achieving Durability, Water Management and High Power (3.4 W/cm ²) in Hydrogen/Oxygen Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F637-F644	3.9	111
18	Highly Conductive Anion-Exchange Membranes Based on Cross-Linked Poly(norbornene): Vinyl Addition Polymerization. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2447-2457	6.1	67
17	Salen complexes of zirconium and hafnium: synthesis, structural characterization and polymerization studies. <i>Polymer Chemistry</i> , 2019 , 10, 3444-3460	4.9	17
16	Highly Conducting Anion-Exchange Membranes Based on Cross-Linked Poly(norbornene): Ring Opening Metathesis Polymerization. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2458-2468	6.1	56
15	Anionic multiblock copolymer membrane based on vinyl addition polymerization of norbornenes: Applications in anion-exchange membrane fuel cells. <i>Journal of Membrane Science</i> , 2019 , 570-571, 394-402	8.6	71
14	Palladium complexes containing imino phenoxide ligands: synthesis, luminescence, and their use as catalysts for the ring-opening polymerization of ϵ -lactide. <i>Monatshefte Für Chemie</i> , 2018 , 149, 783-790	1.4	9
13	Group 4 metal complexes containing the salalen ligands: Synthesis, structural characterization and studies on the ROP of cyclic esters. <i>Journal of Organometallic Chemistry</i> , 2018 , 871, 111-121	2.3	11
12	Homoleptic Zr and Hf Complexes of Imino/Bis(imino)phenoxide Scaffolds: Synthesis, Structural Characterization and Their Catalytic Activity in the ROP of Cyclic Esters. <i>ChemistrySelect</i> , 2017 , 2, 8408-8417	1.8	6
11	Copper(II) complexes with imino phenoxide ligands: synthesis, characterization, and their application as catalysts for the ring-opening polymerization of ϵ -lactide. <i>Monatshefte Für Chemie</i> , 2016 , 147, 1883-1892	1.4	20
10	Group 4 complexes bearing bis(salphen) ligands: Synthesis, characterization, and polymerization studies. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 809-824	2.5	40
9	Cadmium acetate as a ring opening polymerization catalyst for the polymerization of ϵ -caprolactone and as a precatalyst for the polymerization of ethylene. <i>Journal of Polymer Research</i> , 2016 , 23, 1	2.7	15
8	Synthesis and structural characterization of titanium and zirconium complexes containing half-salen ligands as catalysts for polymerization reactions. <i>New Journal of Chemistry</i> , 2016 , 40, 9824-9839	3.6	32
7	Zwitterionic Complexes of Group 4 Metal Chlorides Containing a Bis(imino)phenoxide Scaffold: Synthesis, Characterization and Polymerization Studies. <i>ChemistrySelect</i> , 2016 , 1, 5218-5229	1.8	12
6	Zr(IV) complexes containing salan-type ligands: synthesis, structural characterization and role as catalysts towards the polymerization of ϵ -caprolactone, ϵ -lactide, ethylene, homopolymerization and copolymerization of epoxides with CO ₂ . <i>RSC Advances</i> , 2015 , 5, 28536-28553	3.7	41
5	Kinetic investigation on the highly efficient and selective oxidation of sulfides to sulfoxides and sulfones with t-BuOOH catalyzed by La ₂ O ₃ . <i>RSC Advances</i> , 2015 , 5, 12111-12122	3.7	9
4	Air-stable palladium(0) phosphine sulfide catalysts for Ullmann-type C ₆ H ₅ I and C ₆ D ₆ I coupling reactions. <i>Journal of Organometallic Chemistry</i> , 2015 , 781, 23-34	2.3	31

3	Imino phenoxide complexes of niobium and tantalum as catalysts for the polymerization of lactides, ϵ -caprolactone and ethylene. <i>Dalton Transactions</i> , 2013 , 42, 10304-14	4.3	27
2	Imino phenoxide complexes of group 4 metals: synthesis, structural characterization and polymerization studies. <i>New Journal of Chemistry</i> , 2013 , 37, 949	3.6	41
1	Silver-Nitrate-Catalyzed N-Arylation of Amines and O-Arylations of Phenols and Alcohols. <i>Asian Journal of Organic Chemistry</i> , 2013 , 2, 579-585	3	15