

Mrinmay Mandal

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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	Composite Poly(norbornene) Anion Conducting Membranes for Achieving Durability, Water Management and High Power (3.4W/cm ²) in Hydrogen/Oxygen Alkaline Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2019 , 166, F637-F644	3.9	111
37	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
36	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
35	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
34	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
33	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
32	Zr(IV) complexes containing salan-type ligands: synthesis, structural characterization and role as catalysts towards the polymerization of ϵ -caprolactone, rac-lactide, ethylene, homopolymerization and copolymerization of epoxides with CO ₂ . <i>RSC Advances</i> , 2015 , 5, 28536-28553	3.7	41
31	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
30	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
29	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
28	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
27	Air-stable palladium(0) phosphine sulfide catalysts for Ullmann-type C-N and C-O coupling reactions. <i>Journal of Organometallic Chemistry</i> , 2015 , 781, 23-34	2.3	31
26	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
25	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
24	Recent Advancement on Anion Exchange Membranes for Fuel Cell and Water Electrolysis. <i>ChemElectroChem</i> , 2021 , 8, 36-45	4.3	21
23	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
22	Salen complexes of zirconium and hafnium: synthesis, structural characterization and polymerization studies. <i>Polymer Chemistry</i> , 2019 , 10, 3444-3460	4.9	17

21	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
20	Group 4 complexes as catalysts for the transformation of CO ₂ into polycarbonates and cyclic carbonates. <i>Journal of Organometallic Chemistry</i> , 2020 , 907, 121067	2.3	15
19	Cadmium acetate as a ring opening polymerization catalyst for the polymerization of rac-lactide, ε-caprolactone and as a precatalyst for the polymerization of ethylene. <i>Journal of Polymer Research</i> , 2016 , 23, 1	2.7	15
18	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
17	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
16	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
15	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
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	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
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	Editors' Choice Power-Generating Electrochemical CO ₂ Scrubbing from Air Enabling Practical AEMFC Application. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 024504	3.9	4
10	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
9	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
8	Novel Electrocatalyst for Alkaline Membrane Water Electrolysis. <i>ChemElectroChem</i> , 2020 , 7, 4303-4305	4.3	3
7	Co ₂ O ₃ and MnO ₂ as inexpensive catalysts for the ring-opening polymerization of cyclic esters. <i>Journal of Polymer Research</i> , 2021 , 28, 1	2.7	3
6	Homoleptic titanium and zirconium complexes exhibiting unusual Oiminoligand coordination: application in stereoselective ring-opening polymerization of lactide. <i>Polymer Chemistry</i> , 2021 , 12, 3953-3967	4.9	3
5	CO ₂ Electroreduction to Multicarbon Products. <i>ChemElectroChem</i> , 2020 , 7, 3713-3715	4.3	2
4	Integrated CO capture and one-pot production of methanol. <i>Dalton Transactions</i> , 2020 , 49, 17140-17142	4.3	1

3	Highly Efficient Bipolar Membrane CO ₂ Electrolysis. <i>ChemElectroChem</i> , 2021 , 8, 1448-1450	4.3	1
2	Self-adhesive ionomers for durable low-temperature anion exchange membrane electrolysis. <i>Journal of Power Sources</i> , 2022 , 536, 231495	8.9	1
1	Novel phosphonated polymer without anhydride formation for proton exchange membrane fuel cells. <i>Journal of Energy Chemistry</i> , 2022 , 65, 469-471	12	0