Chinmaya Mirle

List of Publications by Year
in descending order

44	540	687335 13	713444 21
papers	citations	h-index	g-index

45	45	45	649
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel ethynyl-pyrene substituted phenothiazine based metal free organic dyes in DSSC with 12% conversion efficiency. Journal of Materials Chemistry A, 2017, 5, 10289-10300.	10.3	103
2	A chitosan/poly(ethylene glycol)-ran-poly(propylene glycol) blend as an eco-benign separator and binder for quasi-solid-state supercapacitor applications. Sustainable Energy and Fuels, 2019, 3, 760-773.	4.9	35
3	Cobalt-Based Coordination Polymer for Oxygen Reduction Reaction. ACS Omega, 2018, 3, 3830-3834.	3.5	28
4	DFT/TDâ€DFT Studies of Metalâ€Free Nâ€Annulated Perylene Based Organic Sensitizers for Dyeâ€Sensitized Solar Cells: Is Thiophene Spacer Essential for Improving the DSSC Performance?. ChemistrySelect, 2016, 1, 5854-5862.	1.5	26
5	CuOâ€“NiO binary transition metal oxide nanoparticle anchored on rGO nanosheets as high-performance electrocatalyst for the oxygen reduction reaction. Environmental Research, 2022, 211, 112992.	7.5	24
6	Electrode and Conductive Additive Compatibility Yielding Excellent Rate Capability and Long Cycle Life for Sustainable Organic Aqueous Zn-Ion Batteries. ACS Applied Energy Materials, 2021, 4, 1218-1227.	5.1	21
7	Understanding the photo-electrochemistry of metal-free di and tri substituted thiophene-based organic dyes in dye-sensitized solar cells using DFT/TD-DFT studies. Ionics, 2017, 23, 3545-3554.	2.4	20
8	Nâ€•and Pâ€coâ€doped Graphite Felt Electrode for Improving Positive Electrode Chemistry of the Vanadium Redox Flow Battery. ChemistrySelect, 2018, 3, 8678-8687.	1.5	17
9	A computational study on boron dipyromethene ancillary acceptor-based dyes for dye-sensitized solar cells. New Journal of Chemistry, 2020, 44, 4877-4886.	2.8	17
10	Crossover-free hydroxy-substituted quinone anolyte and potassium ferrocyanide catholyte for aqueous alkaline organic redox flow battery. Catalysis Today, 2021, 370, 173-180.	4.4	15
11	Green, Seed-Mediated Synthesis of Au Nanowires and Their Efficient Electrocatalytic Activity in Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2017, 9, 28876-28886.	8.0	14
12	Chemical Vapor Deposition-Grown Nickel-Encapsulated N-Doped Carbon Nanotubes as a Highly Active Oxygen Reduction Reaction Catalyst without Direct Metalâ€“Nitrogen Coordination. ACS Omega, 2018, 3, 13609-13620.	3.5	14
13	Flexible paper-based borohydride-vanadium fuel cell for powering micro-nanosystems. Ionics, 2017, 23, 1811-1817.	2.4	13
14	On Inâ€“situ Redox Balancing of Vanadium Redox Flow Battery Using Dâ€Fructose as Negative Electrolyte Additive. ChemistrySelect, 2017, 2, 720-727.	1.5	12
15	Multifunctional copper dimer: structure, band gap energy, catalysis, magnetism, oxygen reduction reaction and proton conductivity. RSC Advances, 2016, 6, 37515-37521.	3.6	11
16	Molecular engineering of pyrene carbazole dyes with a single bond and double bond as the mode of linkage. New Journal of Chemistry, 2020, 44, 16511-16525.	2.8	11
17	A DSSC with an Efficiency of â^¼10â€‰%: Fermi Level Manipulation Impacting the Electron Transport at the Photoelectrodeâ€Electrolyte Interface. ChemistrySelect, 2016, 1, 6179-6187.	1.5	10
18	New cyclic and acyclic imidazole-based sensitizers for achieving highly efficient photoanodes for dye-sensitized solar cells by a potential-assisted method. New Journal of Chemistry, 2020, 44, 10207-10219.	2.8	10

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19	Carbon-supported Co(III) dimer for oxygen reduction reaction in alkaline medium. Ionics, 2016, 22, 2183-2194.	2.4	9
20	Carbon Supported and Nafion Stabilized Copper (II) Based 1D Coordination Polymer as an Electrocatalyst for Oxygen Reduction Reaction. Journal of the Electrochemical Society, 2019, 166, F3193-F3201.	2.9	9
21	Binder-free thin graphite fiber mat sandwich electrode architectures for energy-efficient vanadium redox flow batteries. Catalysis Today, 2021, 370, 181-188.	4.4	9
22	Computational Investigation of the Influence of Ï€â€Bridge Conjugation Order of Thiophene and Thiazole Units in Triphenylamine Based Dyes in Dyeâ€Sensitized Solar Cells. ChemistrySelect, 2018, 3, 3582-3590.	1.5	8
23	Redoxâ€Active Copperâ€Benzotriazole Stacked Multiwalled Carbon Nanotubes for the Oxygen Reduction Reaction. ChemElectroChem, 2018, 5, 1837-1847.	3.4	8
24	Glycination: A Simple Strategy to Enhance the Cycling Performance of Perylene Dianhydride for Secondary Liâ€"Ion Battery Applications. ChemistrySelect, 2018, 3, 10657-10662.	1.5	8
25	A High Voltage Organic Redox Flow Battery with Redox Couples O₂/Tetrabutylammonium Complex and Tris(4-bromophenyl)amine as Redox Active Species. Journal of the Electrochemical Society, 2018, 165, A2696-A2702.	2.9	7
26	Carbon supported g-C3N4 for electrochemical sensing of hydrazine. Electrochemical Energy Technology, 2018, 4, 21-31.	1.2	7
27	Combination of redox-active natural indigo dye and bio-derived carbon from ridge gourd fruit for high-performance asymmetric supercapacitors. Ionics, 2022, 28, 1427-1440.	2.4	7
28	Nitrogen-Doped High Surface Area Porous Carbon Material Derived from Biomass and Ionic Liquid for High-Performance Supercapacitors. Industrial & Engineering Chemistry Research, 2022, 61, 12073-12082.	3.7	7
29	Paperâ€Based Disposable Zincâ€Vanadium Fuel Cell for Micropower Applications. ChemistrySelect, 2019, 4, 8398-8403.	1.5	6
30	Sodaliteâ€type Cuâ€based Threeâ€dimensional Metalâ€"Organic Framework for Efficient Oxygen Reduction Reaction. Chemistry - an Asian Journal, 2019, 14, 4814-4818.	3.3	6
31	Nickel-Based Hybrid Material for Electrochemical Oxygen Redox Reactions in an Alkaline Medium. ACS Applied Energy Materials, 2020, 3, 6408-6415.	5.1	6
32	Data-driven approach towards identifying dyesensitizer molecules for higher power conversion efficiency in solar cells. New Journal of Chemistry, 2022, 46, 4395-4405.	2.8	6
33	A web of poly(bisbenzimidazolatocopper(<scp>ii</scp>)) around multiwalled carbon nanotubes for the electrochemical detection of hydrogen peroxide. New Journal of Chemistry, 2022, 46, 1222-1231.	2.8	6
34	Computational study of 4,4â€²-dimethoxy triphenylamine donor linked with low band gap Ï€-spacers by single and double bonds for DSSC applications. New Journal of Chemistry, 2021, 45, 16989-17001.	2.8	5
35	A new 2,3-dimethoxy-1,4-naphthoquinone redox anolyte for non-aqueous organic static redox battery. Electrochimica Acta, 2022, 407, 139889.	5.2	5
36	Design of Coneâ€Shaped Hole Transporting Material Organic Structures for Perovskite Solar Cells Applications. ChemistrySelect, 2018, 3, 8159-8166.	1.5	4

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37	Machine learning enabled high-throughput screening of inorganic solid electrolytes for regulating dendritic growth in lithium metal anodes. New Journal of Chemistry, 2022, 46, 14227-14238.	2.8	4
38	Confinement Catalysis of Nonâ€covalently Functionalized Carbon Nanotube in Ascorbic Acid Sensing. Electroanalysis, 2020, 32, 2481-2492.	2.9	3
39	Excited-State Properties of Metal-Free ((Z)-2-Cyano-3-(4-((E)-2-(6-(4-methoxyphenyl)-9-octyl-9H-carbazol-3-yl)vinyl)phenyl)acrylic) Tj ETQq1 1 0.784314 rg (N719 and Z907) Dyes and Photoinduced Charge Transfer Processes in FTO/TiCl₄/TiO₂/Dye Photoanodes Fabricated by Conventional Staining and Potential-Assisted Adsorption. Journal of Physical Chemistry A, 2020, 124, 4333-4344.	2.5	3
40	Investigation of Alkyl Amine Substituted Quinone Derivatives for the Redox Flow Battery Applications in Acidic Medium. Journal of the Electrochemical Society, 2022, 169, 020533.	2.9	3
41	Ironâ€Dicyano Dichloro Quinone Primary Battery. ChemistrySelect, 2018, 3, 10281-10286.	1.5	1
42	Oxygen sensitive 1-amino-2-naphthol immobilized functionalized-carbon nanotube electrode. New Journal of Chemistry, 2020, 44, 8849-8858.	2.8	1
43	Activation of Oxygen Reduction Reaction on Carbon Supported Niâ€Based Complexes. ChemistrySelect, 2021, 6, 9101-9111.	1.5	1
44	Delineating the enhanced efficiency of carbon nanomaterials including the hierarchical architecture of the photoanode of dye-sensitized solar cells. Materials Advances, 2020, 1, 2964-2970.	5.4	0