Chinmaya Mirle

List of Publications by Citations

41 papers	322 citations	9 h-index	16 g-index
45 ext. papers	430 ext. citations	3.8 avg, IF	4.11 L-index

#	Paper	IF	Citations
41	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	13	79
40	Cobalt-Based Coordination Polymer for Oxygen Reduction Reaction. *ACS Omega*, **2018**, 3, 3830-3834	3.9	27
39	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	5.8	21
38	DFT/TD-DFT Studies of Metal-Free N-Annulated Perylene Based Organic Sensitizers for Dye-Sensitized Solar Cells: Is Thiophene Spacer Essential for Improving the DSSC Performance?. *ChemistrySelect*, **2016**, 1, 5854-5862	1.8	19
37	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	2.7	15
36	Flexible paper-based borohydride-vanadium fuel cell for powering micro-nanosystems. *Ionics*, **2017**, 23, 1811-1817	2.7	12
35	A computational study on boron dipyromethene ancillary acceptor-based dyes for dye-sensitized solar cells. *New Journal of Chemistry*, **2020**, 44, 4877-4886	3.6	12
34	Chemical Vapor Deposition-Grown Nickel-Encapsulated N-Doped Carbon Nanotubes as a Highly Active Oxygen Reduction Reaction Catalyst without Direct Metal-Nitrogen Coordination. *ACS Omega*, **2018**, 3, 13609-13620	3.9	11
33	On In□itu Redox Balancing of Vanadium Redox Flow Battery Using D-Fructose as Negative Electrolyte Additive. *ChemistrySelect*, **2017**, 2, 720-727	1.8	10
32	Carbon-supported Co(III) dimer for oxygen reduction reaction in alkaline medium. *Ionics*, **2016**, 22, 2183-2194	2.7	9
31	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	6.1	9
30	N- and P-co-doped Graphite Felt Electrode for Improving Positive Electrode Chemistry of the Vanadium Redox Flow Battery. *ChemistrySelect*, **2018**, 3, 8678-8687	1.8	8
29	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	3.9	7
28	Multifunctional copper dimer: structure, band gap energy, catalysis, magnetism, oxygen reduction reaction and proton conductivity. *RSC Advances*, **2016**, 6, 37515-37521	3.7	7
27	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	3.6	6
26	Computational Investigation of the Influence of □Bridge Conjugation Order of Thiophene and Thiazole Units in Triphenylamine Based Dyes in Dye-Sensitized Solar Cells. *ChemistrySelect*, **2018**, 3, 3582-3590	1.8	6
25	Redox-Active Copper-Benzotriazole Stacked Multiwalled Carbon Nanotubes for the Oxygen Reduction Reaction. *ChemElectroChem*, **2018**, 5, 1837-1847	4.3	6

24	Sodalite-type Cu-based Three-dimensional Metal-Organic Framework for Efficient Oxygen Reduction Reaction. *Chemistry - an Asian Journal*, **2019**, 14, 4814-4818	4.5	6
23	Green, Seed-Mediated Synthesis of Au Nanowires and Their Efficient Electrocatalytic Activity in Oxygen Reduction Reaction. *ACS Applied Materials & Interfaces*, **2017**, 9, 28876-28886	9.5	6
22	A DSSC with an Efficiency of ~10 %: Fermi Level Manipulation Impacting the Electron Transport at the Photoelectrode-Electrolyte Interface. *ChemistrySelect*, **2016**, 1, 6179-6187	1.8	5
21	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	3.6	5
20	Carbon supported g-C3N4 for electrochemical sensing of hydrazine. *Electrochemical Energy Technology*, **2018**, 4, 21-31	4	4
19	Paper-Based Disposable Zinc-Vanadium Fuel Cell for Micropower Applications. *ChemistrySelect*, **2019**, 4, 8398-8403	1.8	4
18	Glycination: A Simple Strategy to Enhance the Cycling Performance of Perylene Dianhydride for Secondary Lithium Battery Applications. *ChemistrySelect*, **2018**, 3, 10657-10662	1.8	4
17	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	3.9	4
16	Excited-State Properties of Metal-Free ((-)-2-Cyano-3-(4-((-)-2-(6-(4-methoxyphenyl)-9-octyl-9-carbazol-3-yl)vinyl)phenyl)acrylic Acid and (-)-2-Cyano-3-(4-((-)-4-(diphenylamino)styryl)phenyl)acrylic Acid) and Ru-Based (N719 and Z907) Dyes and Photoinduced Charge Transfer Processes in FTO/TiCl/TiO/Dye Photoanodes Fabricated by	2.8	3
15	Nickel-Based Hybrid Material for Electrochemical Oxygen Redox Reactions in an Alkaline Medium. *ACS Applied Energy Materials*, **2020**, 3, 6408-6415	6.1	3
14	Design of Cone-Shaped Hole Transporting Material Organic Structures for Perovskite Solar Cells Applications. *ChemistrySelect*, **2018**, 3, 8159-8166	1.8	3
13	Crossover-free hydroxy-substituted quinone anolyte and potassium ferrocyanide catholyte for aqueous alkaline organic redox flow battery. *Catalysis Today*, **2021**, 370, 173-180	5.3	3
12	Binder-free thin graphite fiber mat sandwich electrode architectures for energy-efficient vanadium redox flow batteries. *Catalysis Today*, **2021**, 370, 181-188	5.3	2
11	CuO-NiO binary transition metal oxide nanoparticle anchored on rGO nanosheets as high-performance electrocatalyst for the oxygen reduction reaction.. *Environmental Research*, **2022**, 112992	7.9	2
10	Investigation of Alkyl Amine Substituted Quinone Derivatives for the Redox Flow Battery Applications in Acidic Medium. *Journal of the Electrochemical Society*, **2022**, 169, 020533	3.9	1
9	A new 2,3-dimethoxy-1,4-naphthoquinone redox anolyte for non-aqueous organic static redox battery. *Electrochimica Acta*, **2022**, 407, 139889	6.7	1
8	Confinement Catalysis of Non-covalently Functionalized Carbon Nanotube in Ascorbic Acid Sensing. *Electroanalysis*, **2020**, 32, 2481-2492	3	1
7	A web of poly(bisbenzimidazolatocopper(ii)) around multiwalled carbon nanotubes for the electrochemical detection of hydrogen peroxide. *New Journal of Chemistry*, **2022**, 46, 1222-1231	3.6	0

6	Combination of redox-active natural indigo dye and bio-derived carbon from ridge gourd fruit for high-performance asymmetric supercapacitors. *Ionics*,1	2.7	0
5	Computational study of 4,4?-dimethoxy triphenylamine donor linked with low band gap Espacers by single and double bonds for DSSC applications. *New Journal of Chemistry*, **2021**, 45, 16989-17001	3.6	0
4	Iron-Dicyano Dichloro Quinone Primary Battery. *ChemistrySelect*, **2018**, 3, 10281-10286	1.8	0
3	Activation of Oxygen Reduction Reaction on Carbon Supported Ni-Based Complexes. *ChemistrySelect*, **2021**, 6, 9101-9111	1.8	0
2	Oxygen sensitive 1-amino-2-naphthol immobilized functionalized-carbon nanotube electrode. *New Journal of Chemistry*, **2020**, 44, 8849-8858	3.6	
1	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	3.3	