Cindrella Louis

List of Publications by Year
in descending order

33 papers	1,019 citations	567281 15 h-index	414414 32 g-index
33 all docs	33 docs citations	33 times ranked	1459 citing authors

#	Article	IF	Citations
1	Is the H2 economy realizable in the foreseeable future? Part I: H2 production methods. International Journal of Hydrogen Energy, 2020, 45, 13777-13788.	7.1	186
2	Is the H2 economy realizable in the foreseeable future? Part III: H2 usage technologies, applications, and challenges and opportunities. International Journal of Hydrogen Energy, 2020, 45, 28217-28239.	7.1	139
3	Is the H2 economy realizable in the foreseeable future? Part II: H2 storage, transportation, and distribution. International Journal of Hydrogen Energy, 2020, 45, 20693-20708.	7.1	129
4	Impact of alloying and lattice strain on ORR activity of Pt and Pd based ternary alloys with Fe and Co for proton exchange membrane fuel cell applications. RSC Advances, 2014, 4, 11939.	3.6	64
5	Graphene oxide-wrapped magnetite nanoclusters: A recyclable functional hybrid for fast and highly efficient removal of organic dyes from wastewater. Journal of Environmental Chemical Engineering, 2018, 6, 2176-2190.	6.7	60
6	Synthesis and Characterization of NiS/MnS Core-Shell Embedded Conducting Polyaniline Composite for Photovoltaic Application. International Journal of Polymeric Materials and Polymeric Biomaterials, 2010, 59, 607-621.	3.4	53
7	Mesoporous magnetite nanoparticle-decorated graphene oxide nanosheets for efficient electrochemical detection of hydrazine. Journal of Materials Science, 2019, 54, 4073-4088.	3.7	47
8	The real utility ranges of the solar selective coatings. Solar Energy Materials and Solar Cells, 2007, 91, 1898-1901.	6.2	45
9	Studies on new natural dye sensitizers from Indigofera tinctoria in dye-sensitized solar cells. Optical Materials, 2019, 88, 39-47.	3.6	39
10	Localized surface plasmon resonance of Cu-doped ZnO nanostructures and the materialâ€™s integration in dye sensitized solar cells (DSSCs) enabling high open-circuit potentials. Journal of Alloys and Compounds, 2020, 829, 154497.	5.5	27
11	Molecular orbital evaluation of charge flow dynamics in natural pigments based photosensitizers. Journal of Molecular Modeling, 2010, 16, 523-533.	1.8	24
12	Green synthesis of rGO-WO3 composite and its efficient photoelectrochemical water splitting. International Journal of Hydrogen Energy, 2017, 42, 29791-29796.	7.1	24
13	Novel Nanofluids Based on Magnetite Nanoclusters and Investigation on Their Cluster Size-Dependent Thermal Conductivity. Journal of Physical Chemistry C, 2018, 122, 6918-6929.	3.1	22
14	Synthesis, Characterization, Thermal Conductivity and Rheological Studies in Magnetite-Decorated Graphene Oxide Nanofluids. Journal of Nanofluids, 2018, 7, 11-20.	2.7	22
15	Ameliorating the photovoltaic conversion efficiency of ZnO nanorod based dye-sensitized solar cells by strontium doping. Superlattices and Microstructures, 2019, 128, 14-22.	3.1	21
16	Graphene oxide based highly sensitive electrochemical sensor for detection of environmental pollutants and biomolecules. Materials Research Express, 2019, 6, 085548.	1.6	15
17	Semiconducting composite of chalcone-bridged polythiophene and titania, its ammonia vapor sensing property. Materials Science in Semiconductor Processing, 2015, 34, 126-137.	4.0	11
18	Synthesis and characterization of polypyroleâ€platinum composite for use as electrode material. Polymer Composites, 2012, 33, 1652-1657.	4.6	10

#	Article	IF	Citations
19	Global thrust on fuel cells and their sustainability â€“ an assessment of research trends by bibliometric analysis. International Journal of Sustainable Energy, 2014, 33, 125-140.	2.4	10
20	Ion-exchanged and salt hydrates-encapsulated zeolites for solar refrigeration. Solar Energy Materials and Solar Cells, 2009, 93, 161-166.	6.2	9
21	Surfactant free synthesis of high surface area Pt@PdM₃ (M = Mn, Fe, Co, Ni, Cu) core/shell electrocatalysts with enhanced electrocatalytic activity and durability for PEM fuel cell applications. New Journal of Chemistry, 2016, 40, 8681-8695.	2.8	9
22	Development and Evaluation of Gas Diffusion Layer Using Paraffin Wax Carbon for Proton Exchange Membrane Fuel Cells. Fuel Cells, 2010, 10, 563-566.	2.4	8
23	Graphene oxide-mesoporous iron oxide nanohybrid: an efficient reusable nanoadsorbent for the removal of organic dyes from wastewater. Materials Research Express, 2019, 6, 0850f8.	1.6	8
24	Electrocatalytic activity of Mn/Cu doped Fe₂O₃â€“PANIâ€“rGO composites for fuel cell applications. RSC Advances, 2015, 5, 39455-39463.	3.6	7
25	Enhanced self-humidification and proton conductivity in magnetically aligned NiO-Co3O4/chitosan nanocomposite membranes for high-temperature PEMFCs. Polymer Journal, 2021, 53, 679-693.	2.7	7
26	A Study on the Performance of Dye Sensitized Solar Cells Using Extract from Wrightia tinctoria R.Br. as Photosensitizers. Journal of Electronic Materials, 2019, 48, 7647-7653.	2.2	5
27	Potential of aldehyde bearing N,N-diphenylhydrazone based organic dye in TiO₂, ZnO and TiO₂/ZnO bilayer semiconductor constituting dye sensitized solar cells. Materials Research Express, 2019, 6, 0850e6.	1.6	4
28	Assessment of proton conductivity, dielectric relaxation and other physicochemical properties of LTA zeolite blended chitosan composites for membrane applications. Reactive and Functional Polymers, 2022, 170, 105116.	4.1	4
29	Methyl substituted, azine bridged poly thiophenes and their structure related surface characteristics. Synthetic Metals, 2018, 246, 150-163.	3.9	3
30	Evaluation and visualisation of molecular orbitals of natural pigments by density functional theory for their application in photoelectrochemical devices. Molecular Simulation, 2010, 36, 1-4.	2.0	2
31	Photovoltaic properties of Cassia fistula flower extract based dye-sensitized solar cells. Journal of Nanophotonics, 2019, 13, 1.	1.0	2
32	Chitosan nanohybrid proton exchange membranes based on CNT and exfoliated MoS2 for fuel cell applications. Journal of Polymer Research, 2022, 29, 1.	2.4	2
33	Semiconductive poly[N 1 ,N 4 -bis (thiophen-2-ylmethylene)benzene-1,4-diamine]-nickel oxide nanocomposite based ethanol sensor. Journal of Applied Polymer Science, 2018, 135, 45918.	2.6	1