Palas Baran Pati

List of Publications by Year
in descending order

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32 papers	996 citations	394421 19 h-index	434195 31 g-index
32 all docs	32 docs citations	32 times ranked	1551 citing authors

#	Article	IF	Citations
1	An experimental and theoretical study of an efficient polymer nano-photocatalyst for hydrogen evolution. Energy and Environmental Science, 2017, 10, 1372-1376.	30.8	192
2	Organic chemodosimeter for cyanide: A nucleophilic approach. Sensors and Actuators B: Chemical, 2016, 222, 374-390.	7.8	83
3	Insights into the Mechanism of a Covalently Linked Organic Dyeâ€“Cobaloxime Catalyst System for Dyeâ€Sensitized Solar Fuel Devices. ChemSusChem, 2017, 10, 2480-2495.	6.8	65
4	Photocathode functionalized with a molecular cobalt catalyst for selective carbon dioxide reduction in water. Nature Communications, 2020, 11, 3499.	12.8	56
5	Cyclopenta[c]thiophene-Based Dâ€“A Conjugated Copolymers: Effect of Heteroatoms (S, Se, and N) of Benzazole Acceptors on the Properties of Polymers. Macromolecules, 2012, 45, 5410-5417.	4.8	54
6	Dicyanovinyl terthiophene as a reaction based colorimetric and ratiometric fluorescence probe for cyanide anions. RSC Advances, 2013, 3, 13457.	3.6	47
7	Benzoselenadiazole Containing Donorâ€“Acceptorâ€“Donor Small Molecules: Nonbonding Interactions, Packing Patterns, and Optoelectronic Properties. Crystal Growth and Design, 2014, 14, 1695-1700.	3.0	42
8	Solution Processable Benzooxadiazole and Benzothiadiazole Based D-A-D Molecules with Chalcogenophene: Field Effect Transistor Study and Structure Property Relationship. ACS Applied Materials & Interfaces, 2013, 5, 12460-12468.	8.0	41
9	Dye-Sensitized Photoelectrosynthesis Cells for Benzyl Alcohol Oxidation Using a Zinc Porphyrin Sensitizer and TEMPO Catalyst. ACS Catalysis, 2021, 11, 12075-12086.	11.2	38
10	Covalently linking CuInS₂ quantum dots with a Re catalyst by click reaction for photocatalytic CO₂ reduction. Dalton Transactions, 2018, 47, 10775-10783.	3.3	37
11	Highly emissive triphenylamine based fluorophores for detection of picric acid. Tetrahedron Letters, 2014, 55, 5290-5293.	1.4	36
12	Twisting (conformational changes)-based selective 2D chalcogeno podand fluorescent probes for Cr(iii) and Fe(ii). Chemical Communications, 2011, 47, 4174.	4.1	32
13	Charge Delocalization in a Homologous Series of Î±,Î±â€²-Bis(dianisylamino)-Substituted Thiophene Monocations. Journal of Physical Chemistry A, 2012, 116, 7345-7352.	2.5	29
14	Unveiling 79â€Yearâ€Old Ixene and Its BNâ€Doped Derivative. Angewandte Chemie - International Edition, 2020, 59, 14891-14895.	13.8	29
15	Benzooxadiazaoleâ€based Dâ€“Aâ€“D coâ€oligomers: Synthesis and electropolymerization. Journal of Polymer Science Part A, 2012, 50, 3996-4003.	2.3	25
16	Benzazole (B, N, O, S, Se and Te) based D-A-D type oligomers: Switch from electropolymerization to structural aspect. Organic Electronics, 2016, 38, 97-106.	2.6	24
17	Solid state p-type dye sensitized NiOâ€“dyeâ€“TiO₂ coreâ€“shell solar cells. Chemical Communications, 2018, 54, 3739-3742.	4.1	24
18	Selective Colorimetric and â€œTurnâ€onâ€•Fluorimetric Detection of Cyanide Using a Chemodosimeter Comprising Salicylaldehyde and Triphenylamine Groups. European Journal of Organic Chemistry, 2012, 2012, 6555-6561.	2.4	22

#	Article	IF	Citations
19	MLCT based colorimetric probe for iron having Dâ€“Aâ€“D type architecture of benzo[2,1,3]thiadiazole acceptor and thiophene donor with azomethine pendant arm. Inorganic Chemistry Communication, 2014, 39, 114-118.	3.9	21
20	A heavy metal-free CuInS₂ quantum dot sensitized NiO photocathode with a Re molecular catalyst for photoelectrochemical CO₂ reduction. Chemical Communications, 2019, 55, 7918-7921.	4.1	21
21	Ultrafast dye regeneration in a coreâ€“shell NiOâ€“dyeâ€“TiO₂ mesoporous film. Physical Chemistry Chemical Physics, 2018, 20, 36-40.	2.8	18
22	New dyes for DSSC containing triphenylamine based extended donor: Synthesis, photophysical properties and device performance. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 178, 106-113.	3.9	14
23	An Indacenodithieno[3,2â€b]thiopheneâ€Based Organic Dye for Solidâ€State pâ€Type Dyeâ€Sensitized Solar Cells. ChemSusChem, 2019, 12, 3243-3248.	6.8	13
24	New panchromatic dyes comprising benzothiadiazole units within a donorâ€“acceptor Ï€-conjugated spacer. Synthesis and photophysical properties. Tetrahedron, 2013, 69, 2167-2174.	1.9	12
25	Effect of the change of heteroatom on phenyl capped benzazole: Photophysical and electrochemical properties from the structural viewpoint. Journal of Luminescence, 2018, 194, 164-169.	3.1	5
26	Anomalous effects of ultradilute impurities on heat diffusion in liquids. Optics Communications, 2015, 334, 184-189.	2.1	4
27	Selective bromination of 2,5-bis(2-thienyl)pyrroles and solid-state polymerization through the Î²-carbon of pyrrole. RSC Advances, 2014, 4, 17022-17027.	3.6	3
28	Mechanistic Insights into Solid-State p-Type Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2019, 123, 26151-26160.	3.1	3
29	Molecular Triad Containing a TEMPO Catalyst Grafted on Mesoporous Indium Tin Oxide as a Photoelectrocatalytic Anode for Visible Lightâ€Driven Alcohol Oxidation. ChemSusChem, 2021, 14, 2902-2913.	6.8	3
30	Visible Lightâ€“Driven Hydrogen Production by Carbon based Polymeric Materials. , 2018, , .		1
31	Preparation of polymer nano-photocatalysts by using triton X-100 to improve performance of photocatalytic hydrogen generation. Advanced Materials Letters, 2018, 9, 326-330.	0.6	1
32	CHAPTER 3. Dye-sensitised Solar Cells. Inorganic Materials Series, 2019, , 89-152.	0.7	1