

Catherine S P De Castro

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

1,019
citations

623734

14
h-index

642732

23
g-index

24
all docs

24
docs citations

24
times ranked

1688
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. <i>Nature Materials</i> , 2021, 20, 378-384.	27.5	257
2	An effective approach of vapour assisted morphological tailoring for reducing metal defect sites in lead-free, (CH ₃ NH ₃) ₃ Bi ₂ I ₉ bismuth-based perovskite solar cells for improved performance and long-term stability. <i>Nano Energy</i> , 2018, 49, 614-624.	16.0	169
3	Green-Synthesis-Derived CdS Quantum Dots Using Tea Leaf Extract: Antimicrobial, Bioimaging, and Therapeutic Applications in Lung Cancer Cells. <i>ACS Applied Nano Materials</i> , 2018, 1, 1683-1693.	5.0	126
4	Interpreting time-resolved photoluminescence of perovskite materials. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 28345-28358.	2.8	94
5	The Energy Level Conundrum of Organic Semiconductors in Solar Cells. <i>Advanced Materials</i> , 2022, 34, .	21.0	72
6	Sustainable solvent selection for the manufacture of methylammonium lead triiodide (MAPbI ₃) perovskite solar cells. <i>Green Chemistry</i> , 2021, 23, 2471-2486.	9.0	45
7	Steady-State and Time-Resolved Investigations on Pyrene-Based Chemosensors. <i>Inorganic Chemistry</i> , 2013, 52, 121-129.	4.0	33
8	Picosecond Dynamics of Dimer Formation in a Pyrene Labeled Polymer. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12439-12447.	2.6	32
9	Investigating the Superoxide Formation and Stability in Mesoporous Carbon Perovskite Solar Cells with an Aminovaleric Acid Additive. <i>Advanced Functional Materials</i> , 2020, 30, 1909839.	14.9	30
10	Impact of Aggregation on the Photochemistry of Fullerene Films: Correlating Stability to Triplet Exciton Kinetics. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 22739-22747.	8.0	27
11	Utilization of waste tea leaves as bio-surfactant in CdS quantum dots synthesis and their cytotoxicity effect in breast cancer cells. <i>Applied Surface Science</i> , 2019, 487, 159-170.	6.1	22
12	From yellow to pink using a fluorimetric and colorimetric pyrene derivative and mercury (II) ions. <i>Dyes and Pigments</i> , 2014, 110, 152-158.	3.7	21
13	Improving the light harvesting and colour range of methyl ammonium lead tri-bromide (MAPbBr ₃) perovskite solar cells through co-sensitisation with organic dyes. <i>Chemical Communications</i> , 2019, 55, 35-38.	4.1	16
14	Shining a light on the photoluminescence behaviour of methylammonium lead iodide perovskite: investigating the competing photobrightening and photodarkening processes. <i>Materials Letters</i> , 2019, 243, 191-194.	2.6	16
15	Photophysics of fluorescently labeled oligomers and polymers. <i>Photochemistry</i> , 0, , 59-126.	0.2	11
16	Characterization of 4-methylesculetin and of its mono- and di-methoxylated derivatives in water and organic solvents in its ground, singlet and triplet excited states. <i>Journal of Molecular Liquids</i> , 2019, 278, 616-626.	4.9	10
17	Uphill and downhill charge generation from charge transfer to charge separated states in organic solar cells. <i>Journal of Materials Chemistry C</i> , 2021, 9, 14463-14489.	5.5	10
18	Probing metal cations with two new Schiff base bischromophoric pyrene based chemosensors: Synthesis, photophysics and interactions patterns. <i>Dyes and Pigments</i> , 2016, 134, 601-612.	3.7	8

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19	The first substituted macrocyclic ligand Py2N4S2 containing four naphthylmethylene pendant-armed groups: Synthesis and photophysical properties. <i>Inorganic Chemistry Communication</i> , 2013, 36, 22-26.	3.9	6
20	Spectroscopic and photophysical studies of a naphthalene-based emissive probe for metal cations. <i>Inorganic Chemistry Communication</i> , 2014, 47, 27-32.	3.9	4
21	Design, Synthesis and Selective Functionalization of a Rigid, Truxene Derived Pure Blue-emitting Chromophore. <i>ChemistrySelect</i> , 2020, 5, 109-116.	1.5	3
22	Photoinduced Charge Transfer: From Photography to Solar Energy. <i>Science Progress</i> , 2017, 100, 212-230.	1.9	2
23	Effect of Quencher, Geometry, and Light Outcoupling on the Determination of Exciton Diffusion Length in Nonfullerene Acceptors. <i>Solar Rrl</i> , 2022, 6, .	5.8	2