Catherine S P De Castro

List of Publications by Year
in descending order

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	Effect of Quencher, Geometry, and Light Outcoupling on the Determination of Exciton Diffusion Length in Nonfullerene Acceptors. Solar Rrl, 2022, 6, .	5.8	2
2	The Energy Level Conundrum of Organic Semiconductors in Solar Cells. Advanced Materials, 2022, 34, .	21.0	72
3	Intrinsic efficiency limits in low-bandgap non-fullerene acceptor organic solar cells. Nature Materials, 2021, 20, 378-384.	27.5	257
4	Sustainable solvent selection for the manufacture of methylammonium lead triiodide (MAPbI₃) perovskite solar cells. Green Chemistry, 2021, 23, 2471-2486.	9.0	45
5	Uphill and downhill charge generation from charge transfer to charge separated states in organic solar cells. Journal of Materials Chemistry C, 2021, 9, 14463-14489.	5.5	10
6	Design, Synthesis and Selective Functionalization of a Rigid, Truxene Derived Pure Blueâ€Emitting Chromophore. ChemistrySelect, 2020, 5, 109-116.	1.5	3
7	Interpreting time-resolved photoluminescence of perovskite materials. Physical Chemistry Chemical Physics, 2020, 22, 28345-28358.	2.8	94
8	Investigating the Superoxide Formation and Stability in Mesoporous Carbon Perovskite Solar Cells with an Aminovaleric Acid Additive. Advanced Functional Materials, 2020, 30, 1909839.	14.9	30
9	Improving the light harvesting and colour range of methyl ammonium lead tri-bromide (MAPbBr₃) perovskite solar cells through co-sensitisation with organic dyes. Chemical Communications, 2019, 55, 35-38.	4.1	16
10	Shining a light on the photoluminescence behaviour of methylammonium lead iodide perovskite: investigating the competing photobrightening and photodarkening processes. Materials Letters, 2019, 243, 191-194.	2.6	16
11	Utilization of waste tea leaves as bio-surfactant in CdS quantum dots synthesis and their cytotoxicity effect in breast cancer cells. Applied Surface Science, 2019, 487, 159-170.	6.1	22
12	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. Journal of Molecular Liquids, 2019, 278, 616-626.	4.9	10
13	Green-Synthesis-Derived CdS Quantum Dots Using Tea Leaf Extract: Antimicrobial, Bioimaging, and Therapeutic Applications in Lung Cancer Cells. ACS Applied Nano Materials, 2018, 1, 1683-1693.	5.0	126
14	An effective approach of vapour assisted morphological tailoring for reducing metal defect sites in lead-free, (CH3NH3)3Bi2I9 bismuth-based perovskite solar cells for improved performance and long-term stability. Nano Energy, 2018, 49, 614-624.	16.0	169
15	Impact of Aggregation on the Photochemistry of Fullerene Films: Correlating Stability to Triplet Exciton Kinetics. ACS Applied Materials & Interfaces, 2017, 9, 22739-22747.	8.0	27
16	Photoinduced Charge Transfer: From Photography to Solar Energy. Science Progress, 2017, 100, 212-230.	1.9	2
17	Probing metal cations with two new Schiff base bischromophoric pyrene based chemosensors: Synthesis, photophysics and interactions patterns. Dyes and Pigments, 2016, 134, 601-612.	3.7	8
18	From yellow to pink using a fluorimetric and colorimetric pyrene derivative and mercury (II) ions. Dyes and Pigments, 2014, 110, 152-158.	3.7	21

#	Article	IF	Citations
19	Spectroscopic and photophysical studies of a naphthalene-based emissive probe for metal cations. Inorganic Chemistry Communication, 2014, 47, 27-32.	3.9	4
20	The first substituted macrocyclic ligand Py2N4S2 containing four naphthylmethylene pendant-armed groups: Synthesis and photophysical properties. Inorganic Chemistry Communication, 2013, 36, 22-26.	3.9	6
21	Steady-State and Time-Resolved Investigations on Pyrene-Based Chemosensors. Inorganic Chemistry, 2013, 52, 121-129.	4.0	33
22	Picosecond Dynamics of Dimer Formation in a Pyrene Labeled Polymer. Journal of Physical Chemistry B, 2010, 114, 12439-12447.	2.6	32
23	Photophysics of fluorescently labeled oligomers and polymers. Photochemistry, 0, , 59-126.	0.2	11