Lewis A Baker

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2440976/publications.pdf

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22	753	567281 15	713466 21
papers	citations	h-index	g-index

22	22	22	661
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Photoprotection: extending lessons learned from studying natural sunscreens to the design of artificial sunscreen constituents. Chemical Society Reviews, 2017, 46, 3770-3791.	38.1	146
2	Ultrafast Photoprotecting Sunscreens in Natural Plants. Journal of Physical Chemistry Letters, 2016, 7, 56-61.	4.6	100
3	Probing the Ultrafast Energy Dissipation Mechanism of the Sunscreen Oxybenzone after UVA Irradiation. Journal of Physical Chemistry Letters, 2015, 6, 1363-1368.	4.6	97
4	A Perspective on the Ultrafast Photochemistry of Solution-Phase Sunscreen Molecules. Journal of Physical Chemistry Letters, 2016, 7, 4655-4665.	4.6	52
5	Broadband ultrafast photoprotection by oxybenzone across the UVB and UVC spectral regions. Photochemical and Photobiological Sciences, 2015, 14, 1814-1820.	2.9	45
6	Bottom-up excited state dynamics of two cinnamate-based sunscreen filter molecules. Physical Chemistry Chemical Physics, 2016, 18, 28140-28149.	2.8	43
7	Photodynamics of potent antioxidants: ferulic and caffeic acids. Physical Chemistry Chemical Physics, 2016, 18, 17691-17697.	2.8	40
8	Photoisomerization of ethyl ferulate: A solution phase transient absorption study. Chemical Physics Letters, 2017, 673, 62-67.	2.6	35
9	Observing and Understanding the Ultrafast Photochemistry in Small Molecules: Applications to Sunscreens. Science Progress, 2016, 99, 282-311.	1.9	26
10	Gasâ€Solution Phase Transient Absorption Study of the Plant Sunscreen Derivative Methyl Sinapate. ChemPhotoChem, 2018, 2, 743-748.	3.0	26
11	Ultrafast photoprotective properties of the sunscreening agent octocrylene. Optics Express, 2016, 24, 10700.	3.4	22
12	Bridging the Gap between the Gas Phase and Solution Phase: Solvent Specific Photochemistry in 4-tert-Butylcatechol. Journal of Physical Chemistry A, 2015, 119, 11989-11996.	2.5	21
13	First Step toward a Universal Fluorescent Probe: Unravelling the Photodynamics of an Aminoâ€“Maleimide Fluorophore. Journal of Physical Chemistry A, 2017, 121, 6357-6365.	2.5	20
14	Robustness, efficiency, and optimality in the Fenna-Matthews-Olson photosynthetic pigment-protein complex. Journal of Chemical Physics, 2015, 143, 105101.	3.0	18
15	Ultrafast photophysical studies of a multicomponent sunscreen: Oxybenzoneâ€“titanium dioxide mixtures. Chemical Physics Letters, 2016, 664, 39-43.	2.6	18
16	Retaining individualities: the photodynamics of self-ordering porphyrin assemblies. Chemical Communications, 2016, 52, 1938-1941.	4.1	11
17	Conservation of ultrafast photoprotective mechanisms with increasing molecular complexity in sinapoyl malate derivatives. ChemPhysChem, 2020, 21, 2006-2011.	2.1	10
18	Photosynthetic pigment-protein complexes as highly connected networks: implications for robust energy transport. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170112.	2.1	10

#	Article	IF	Citations
19	Ultrafast Transient Absorption Spectroscopy of the Sunscreen Constituent Ethylhexyl Triazone. Journal of Physical Chemistry Letters, 2017, 8, 2113-2118.	4.6	9
20	Photosynthesis, Pigmentâ€“Protein Complexes and Electronic Energy Transport: Simple Models for Complicated Processes. Science Progress, 2017, 100, 313-330.	1.9	3
21	A simple and affordable experiment to determine Reynolds number. Physics Education, 2019, 54, 063004.	0.5	1
22	Ultrafast spectroscopic investigation of discrete co-assemblies of a Zn-porphyrinâ€“polymer conjugate with a hexapyridyl template. Chemical Physics Letters, 2021, 777, 138736.	2.6	0