

Mikkel Bregnhøj

List of Publications by Year in descending order

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41
papers

897
citations

586496

16
h-index

536525

29
g-index

45
all docs

45
docs citations

45
times ranked

1251
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent-dependent singlet oxygen lifetimes: temperature effects implicate tunneling and charge-transfer interactions. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22946-22961.	1.3	174
2	Singlet Oxygen Photophysics in Liquid Solvents: Converging on a Unified Picture. <i>Accounts of Chemical Research</i> , 2017, 50, 1920-1927.	7.6	97
3	No Photon Wasted: An Efficient and Selective Singlet Oxygen Photosensitizing Protein. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9366-9371.	1.2	68
4	Direct 765 nm Optical Excitation of Molecular Oxygen in Solution and in Single Mammalian Cells. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5422-5429.	1.2	65
5	Ice-nucleating proteins are activated by low temperatures to control the structure of interfacial water. <i>Nature Communications</i> , 2021, 12, 1183.	5.8	40
6	Temperature Sensitive Singlet Oxygen Photosensitization by LOV-Derived Fluorescent Flavoproteins. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2561-2574.	1.2	38
7	Control of singlet oxygen production in experiments performed on single mammalian cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016, 321, 297-308.	2.0	37
8	Solvent and Heavy-Atom Effects on the $O_2(X^3\Sigma_g^- \leftarrow S_0) \rightarrow O_2(b^1\Sigma_g^+ \leftarrow S_0) + \nu$ Absorption Transition. <i>Journal of Physical Chemistry A</i> , 2016, 120, 8285-8296.	1.1	34
9	Biomimetic Approach to Inhibition of Photooxidation in Organic Solar Cells Using Beta-Carotene as an Additive. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41570-41579.	4.0	34
10	Intracellular singlet oxygen photosensitizers: on the road to solving the problems of sensitizer degradation, bleaching and relocalization. <i>Integrative Biology (United Kingdom)</i> , 2016, 8, 177-193.	0.6	29
11	Azadioxatriangulenium and Diazaoxatriangulenium: Quantum Yields and Fundamental Photophysical Properties. <i>ACS Omega</i> , 2017, 2, 193-203.	1.6	29
12	Exerting better control and specificity with singlet oxygen experiments in live mammalian cells. <i>Methods</i> , 2016, 109, 81-91.	1.9	26
13	Oxygen-dependent photophysics and photochemistry of prototypical compounds for organic photovoltaics: inhibiting degradation initiated by singlet oxygen at a molecular level. <i>Methods and Applications in Fluorescence</i> , 2020, 8, 014001.	1.1	22
14	Monitoring Interfacial Lipid Oxidation in Oil-in-Water Emulsions Using Spatially Resolved Optical Techniques. <i>Analytical Chemistry</i> , 2017, 89, 6239-6247.	3.2	21
15	Tutorials in vibrational sum frequency generation spectroscopy. II. Designing a broadband vibrational sum frequency generation spectrometer. <i>Biointerphases</i> , 2022, 17, 011202.	0.6	19
16	Tutorials in vibrational sum frequency generation spectroscopy. I. The foundations. <i>Biointerphases</i> , 2022, 17, 011201.	0.6	17
17	Light Scattering versus Plasmon Effects: Optical Transitions in Molecular Oxygen near a Metal Nanoparticle. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15625-15634.	1.5	16
18	Uric Acid: A Less-than-Perfect Probe for Singlet Oxygen. <i>Photochemistry and Photobiology</i> , 2019, 95, 202-210.	1.3	16

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19	Single mutation in a novel bacterial LOV protein yields a singlet oxygen generator. <i>Photochemical and Photobiological Sciences</i> , 2019, 18, 2657-2660.	1.6	14
20	Effect of Solvent on the $O_2(a^1g)$ \rightarrow $O_2(b^1g)$ Absorption Coefficient. <i>Journal of Physical Chemistry A</i> , 2015, 119, 9236-9243.	1.1	11
21	Tungsten Iodide Clusters as Singlet Oxygen Photosensitizers: Exploring the Domain of Resonant Energy Transfer at 1 eV. <i>Journal of Physical Chemistry A</i> , 2019, 123, 1730-1739.	1.1	11
22	The primary photo-dissociation dynamics of lactate in aqueous solution: decarboxylation prevents dehydroxylation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4555-4568.	1.3	8
23	Comment on a β -functional Li ₂ B ₁₂ H ₁₂ for energy storage and conversion applications: solid-state electrolyte and luminescent down-conversion dye by J. A. Teprovich Jr, H. Col ³ n-Mercado, A. L. Washington II, P. A. Ward, S. Greenway, D. M. Missimer, H. Hartman, J. Velten, J. H. Christian and R. Zidan, <i>J. Mater. Chem. A</i> , 2015, 3, 22853. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4185-4187.	5.2	7
24	Synergistic effect of carotenoid and silicone-based additives for photooxidatively stable organic solar cells with enhanced elasticity. <i>Journal of Materials Chemistry C</i> , 2021, 9, 11838-11850.	2.7	7
25	Electrostatics Trigger Interfacial Self-Assembly of Bacterial Ice Nucleators. <i>Biomacromolecules</i> , 2022, 23, 505-512.	2.6	7
26	Two-Photon Excitation of Neat Aerated Solvents with Visible Light Produces Singlet Oxygen. <i>Journal of Physical Chemistry A</i> , 2019, 123, 7567-7575.	1.1	6
27	Light-initiated oxidative stress. , 2020, , 363-388.		6
28	Oxygen- and pH-Dependent Photophysics of Fluorinated Fluorescein Derivatives: Non-Symmetrical vs. Symmetrical Fluorination. <i>Sensors</i> , 2020, 20, 5172.	2.1	6
29	Photophysics of a protein-bound derivative of malachite green that sensitizes the production of singlet oxygen. <i>Photochemical and Photobiological Sciences</i> , 2021, 20, 435-449.	1.6	5
30	X^3g^+ \rightarrow b^1g Absorption Spectra of Molecular Oxygen in Liquid Organic Solvents at Atmospheric Pressure. <i>Journal of Physical Chemistry A</i> , 2022, 126, 3839-3845.	1.1	5
31	Subtle structural changes in octupolar merocyanine dyes influence the photosensitized production of singlet oxygen. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 1138-1146.	1.6	4
32	Molecular Oxygen in Photoresponsive Organic Materials. , 2022, , 121-148.		4
33	A liquid surface height controller for surface spectroscopy. <i>Review of Scientific Instruments</i> , 2021, 92, 094104.	0.6	3
34	Assembly of iron oxide nanosheets at the air-water interface by leucine-histidine peptides. <i>RSC Advances</i> , 2021, 11, 27965-27968.	1.7	3
35	Structure and Orientation of the SARS-Coronavirus-2 Spike Protein at Air-Water Interfaces. <i>Journal of Physical Chemistry B</i> , 2022, 126, 3425-3430.	1.2	3
36	The Diatom Peptide R5 Fabricates Two-Dimensional Titanium Dioxide Nanosheets. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5025-5029.	2.1	2

#	ARTICLE	IF	CITATIONS
37	Direct $\sigma_{\text{O}}^{(2)}$ ($\sigma_{\text{X}}^{(3)}$ $\sigma_{\text{g}}^{(-)}$) o $\sigma_{\text{O}}^{(2)}$ ($\sigma_{\text{b}}^{(1)}$) Tj ETQq1 1 0.784314 $\sigma_{\text{O}}^{(2)}$ /Overlock 10		
38	Temperature Effects on the Lifetime of O ₂ (a1 ^g). Springer Theses, 2019, , 79-105.	0.0	0
39	Instrumentation and Experimental Techniques. Springer Theses, 2019, , 17-29.	0.0	0
40	Solvent Effects on the O ₂ (a1 ^g) â†' O ₂ (b1 ^g) $\sigma_{\text{g}}^{(+)}$ Transition. Springer Theses, 2019, , 57-78.	0.0	0
41	Naturally occurring antioxidants for photooxidatively stable flexible organic solar cells. , 0, , .		0