Peter Ogilby

List of Publications by Year
in descending order

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191 papers	11,039 citations	32410 55 h-index	39744 98 g-index
203 all docs	203 docs citations	203 times ranked	10867 citing authors

#	Article	IF	Citations
1	Molecular Oxygen in Photoresponsive Organic Materials. , 2022, , 121-148.		4
2	Geometry Dependence of Spinâ€“Orbit Coupling in Complexes of Molecular Oxygen with Atoms, H2, or Organic Molecules. Journal of Physical Chemistry A, 2022, , .	1.1	7
3	The oxygenâ€“organic molecule photosystem: revisiting the past, recalibrating the present, and redefining the future. Photochemical and Photobiological Sciences, 2022, 21, 1133-1141.	1.6	4
4	Photoinduced bleaching in an efficient singlet oxygen photosensitizing protein: Identifying a culprit in the flavin-binding LOV-based protein SOPP3. Journal of Photochemistry and Photobiology A: Chemistry, 2022, 429, 113894.	2.0	5
5	X³Î£_g^{â€“} â† b¹Î£_g⁺ Absorption Spectra of Molecular Oxygen in Liquid Organic Solvents at Atmospheric Pressure. Journal of Physical Chemistry A, 2022, 126, 3839-3845.	1.1	5
6	Perturbed and Activated Decay: The Lifetime of Singlet Oxygen in Liquid Organic Solvents. Journal of the American Chemical Society, 2022, 144, 10902-10911.	6.6	18
7	Synergistic effect of carotenoid and silicone-based additives for photooxidatively stable organic solar cells with enhanced elasticity. Journal of Materials Chemistry C, 2021, 9, 11838-11850.	2.7	7
8	Spectroscopic and quantum chemical characterization of the ground and lowest electronically excited singlet and triplet states of halo- and nitro-harmines in aqueous media. Physical Chemistry Chemical Physics, 2021, 23, 11039-11051.	1.3	3
9	The complex between molecular oxygen and an organic molecule: modeling optical transitions to the intermolecular charge-transfer state. Physical Chemistry Chemical Physics, 2021, 23, 15038-15048.	1.3	6
10	Photophysics of a protein-bound derivative of malachite green that sensitizes the production of singlet oxygen. Photochemical and Photobiological Sciences, 2021, 20, 435-449.	1.6	5
11	Stable Transfection of the Singlet Oxygen Photosensitizing Protein SOPP3: Examining Aspects of Intracellular Behavior^{â€}. Photochemistry and Photobiology, 2021, 97, 1417-1430.	1.3	8
12	Visualising UV-A light-induced damage to plasma membranes of eye lens. Journal of Photochemistry and Photobiology B: Biology, 2021, 225, 112346.	1.7	8
13	Oxygen-dependent photophysics and photochemistry of prototypical compounds for organic photovoltaics: inhibiting degradation initiated by singlet oxygen at a molecular level. Methods and Applications in Fluorescence, 2020, 8, 014001.	1.1	22
14	Light-initiated oxidative stress. , 2020, , 363-388.		6
15	Oxygen- and pH-Dependent Photophysics of Fluorinated Fluorescein Derivatives: Non-Symmetrical vs. Symmetrical Fluorination. Sensors, 2020, 20, 5172.	2.1	6
16	Modeling the Effect of Solvents on Nonradiative Singlet Oxygen Deactivation: Going beyond Weak Coupling in Intermolecular Electronic-to-Vibrational Energy Transfer. Journal of Physical Chemistry B, 2020, 124, 2245-2254.	1.2	20
17	Interaction kinetics of selenium-containing compounds with oxidants. Free Radical Biology and Medicine, 2020, 155, 58-68.	1.3	19
18	Uric Acid: A Lessâ€thanâ€Perfect Probe for Singlet Oxygen. Photochemistry and Photobiology, 2019, 95, 202-210.	1.3	16

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19	Two-Photon Excitation of Neat Aerated Solvents with Visible Light Produces Singlet Oxygen. Journal of Physical Chemistry A, 2019, 123, 7567-7575.	1.1	6
20	Biomimetic Approach to Inhibition of Photooxidation in Organic Solar Cells Using Beta-Carotene as an Additive. ACS Applied Materials & Interfaces, 2019, 11, 41570-41579.	4.0	34
21	Rational design of genetically encoded singlet oxygen photosensitizing proteins. Current Opinion in Structural Biology, 2019, 57, 56-62.	2.6	34
22	Comment on â€œBi-functional Li₂B₁₂H₁₂ for energy storage and conversion applications: solid-state electrolyte and luminescent down-conversion dyeâ€•by J. A. Teprovich Jr, H. ColÃ³n-Mercado, A. L. Washington II, P. A. Ward, S. Greenway, D. M. Missimer, H. Hartman, J. Velten, J. H. Christian and R. Zidan, J. Mater. Chem. A, 2015, 3, 22853. Journal of Materials Chemistry A, 2019, 7, 4185-4187.	5.2	7
23	Tungsten Iodide Clusters as Singlet Oxygen Photosensitizers: Exploring the Domain of Resonant Energy Transfer at 1 eV. Journal of Physical Chemistry A, 2019, 123, 1730-1739.	1.1	11
24	Single mutation in a novel bacterial LOV protein yields a singlet oxygen generator. Photochemical and Photobiological Sciences, 2019, 18, 2657-2660.	1.6	14
25	Spatially Resolved Experiments to Monitor the Singlet Oxygen Initiated Oxidation of Lipid Droplets in Emulsions. ChemPhotoChem, 2018, 2, 586-595.	1.5	7
26	Cell cycle modulation through subcellular spatially resolved production of singlet oxygen via direct 765 nm irradiation: manipulating the onset of mitosis. Photochemical and Photobiological Sciences, 2018, 17, 1310-1318.	1.6	12
27	Light Scattering versus Plasmon Effects: Optical Transitions in Molecular Oxygen near a Metal Nanoparticle. Journal of Physical Chemistry C, 2018, 122, 15625-15634.	1.5	16
28	Azadioxatriangulenium and Diazaoxatriangulenium: Quantum Yields and Fundamental Photophysical Properties. ACS Omega, 2017, 2, 193-203.	1.6	29
29	Temperature Sensitive Singlet Oxygen Photosensitization by LOV-Derived Fluorescent Flavoproteins. Journal of Physical Chemistry B, 2017, 121, 2561-2574.	1.2	38
30	Monitoring Interfacial Lipid Oxidation in Oil-in-Water Emulsions Using Spatially Resolved Optical Techniques. Analytical Chemistry, 2017, 89, 6239-6247.	3.2	21
31	No Photon Wasted: An Efficient and Selective Singlet Oxygen Photosensitizing Protein. Journal of Physical Chemistry B, 2017, 121, 9366-9371.	1.2	68
32	Singlet Oxygen Photophysics in Liquid Solvents: Converging on a Unified Picture. Accounts of Chemical Research, 2017, 50, 1920-1927.	7.6	97
33	Exerting better control and specificity with singlet oxygen experiments in live mammalian cells. Methods, 2016, 109, 81-91.	1.9	26
34	A ligand substituted tungsten iodide cluster: luminescence vs. singlet oxygen production. Dalton Transactions, 2016, 45, 15500-15506.	1.6	37
35	Solvent and Heavy-Atom Effects on the O₂(X³Î£_g^{â€“}) â†’ O₂(b¹Î£_g⁺) Absorption Transition. Journal of Physical Chemistry A, 2016, 120, 8285-8296.	1.1	34
36	Solvent-dependent singlet oxygen lifetimes: temperature effects implicate tunneling and charge-transfer interactions. Physical Chemistry Chemical Physics, 2016, 18, 22946-22961.	1.3	174

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37	Intracellular singlet oxygen photosensitizers: on the road to solving the problems of sensitizer degradation, bleaching and relocalization. Integrative Biology (United Kingdom), 2016, 8, 177-193.	0.6	29
38	Control of singlet oxygen production in experiments performed on single mammalian cells. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 321, 297-308.	2.0	37
39	Chapter 7. The Sensitized Production of Singlet Oxygen Using Two-Photon Excitation. Comprehensive Series in Photochemical and Photobiological Sciences, 2016, , 145-161.	0.3	1
40	Chapter 34. Singlet Oxygen in Mammalian Cells. Comprehensive Series in Photochemical and Photobiological Sciences, 2016, , 169-183.	0.3	2
41	Rational Design of an Efficient, Genetically Encodable, Protein-Encased Singlet Oxygen Photosensitizer. Journal of the American Chemical Society, 2015, 137, 1632-1642.	6.6	98
42	Solvent dependent photosensitized singlet oxygen production from an Ir(iii) complex: pointing to problems in studies of singlet-oxygen-mediated cell death. Photochemical and Photobiological Sciences, 2015, 14, 1831-1843.	1.6	14
43	Effect of Solvent on the O2(a1Î”g) â†' O2(b1Î£g+) Absorption Coefficient. Journal of Physical Chemistry A, 2015, 119, 9236-9243.	1.1	11
44	Experimental and computational study of solvent effects on one- and two-photon absorption spectra of chlorinated harmines. Physical Chemistry Chemical Physics, 2015, 17, 12090-12099.	1.3	20
45	Subtle structural changes in octupolar merocyanine dyes influence the photosensitized production of singlet oxygen. Photochemical and Photobiological Sciences, 2015, 14, 1138-1146.	1.6	4
46	Direct 765 nm Optical Excitation of Molecular Oxygen in Solution and in Single Mammalian Cells. Journal of Physical Chemistry B, 2015, 119, 5422-5429.	1.2	65
47	Protein-encapsulated bilirubin: paving the way to a useful probe for singlet oxygen. Photochemical and Photobiological Sciences, 2015, 14, 665-677.	1.6	13
48	Aarhus green: a tetrafluoro-substituted derivative of fluorescein. Arkivoc, 2015, 2015, 52-64.	0.3	6
49	Aarhus Sensor Green: A Fluorescent Probe for Singlet Oxygen. Journal of Organic Chemistry, 2014, 79, 3079-3087.	1.7	97
50	Selective quenching of triplet excited states of pteridines. Photochemical and Photobiological Sciences, 2014, 13, 1058-1065.	1.6	17
51	Effect of chromophore encapsulation on linear and nonlinear optical properties: the case of â€œminiSOGâ€, a protein-encased flavin. Physical Chemistry Chemical Physics, 2014, 16, 9950.	1.3	23
52	Singlet oxygen and ROS in a new light: low-dose subcellular photodynamic treatment enhances proliferation at the single cell level. Photochemical and Photobiological Sciences, 2014, 13, 1235-1240.	1.6	42
53	Singlet Oxygen in DNA Nanotechnology. Accounts of Chemical Research, 2014, 47, 1799-1806.	7.6	49
54	Oxygenâ€Dependent Photochemistry and Photophysics of â€œMiniSOG,â€•a Proteinâ€Encased Flavin. Photochemistry and Photobiology, 2013, 89, 1116-1126.	1.3	94

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55	Temperature Effect on Radiative Lifetimes: The Case of Singlet Oxygen in Liquid Solvents. Journal of Physical Chemistry B, 2013, 117, 16227-16235.	1.2	19
56	Antioxidant Î²-Carotene Does Not Quench Singlet Oxygen in Mammalian Cells. Journal of the American Chemical Society, 2013, 135, 272-279.	6.6	40
57	Spatially resolved two-photon irradiation of an intracellular singlet oxygen photosensitizer: Correlating cell response to the site of localized irradiation. Free Radical Research, 2013, 47, 718-730.	1.5	19
58	Reaction of Singlet Oxygen with Tryptophan in Proteins: A Pronounced Effect of the Local Environment on the Reaction Rate. Journal of the American Chemical Society, 2012, 134, 9820-9826.	6.6	105
59	Irradiation- and Sensitizer-Dependent Changes in the Lifetime of Intracellular Singlet Oxygen Produced in a Photosensitized Process. Journal of Physical Chemistry B, 2012, 116, 445-461.	1.2	85
60	Singlet-Oxygen-Mediated Cell Death Using Spatially-Localized Two-Photon Excitation of an Extracellular Sensitizer. Journal of Physical Chemistry B, 2012, 116, 10234-10246.	1.2	37
61	The effect of humic acid binding to magnetite nanoparticles on the photogeneration of reactive oxygen species. Separation and Purification Technology, 2012, 91, 23-29.	3.9	44
62	The role of humic acid aggregation on the kinetics of photosensitized singlet oxygen production and decay. Photochemical and Photobiological Sciences, 2011, 10, 1080-1086.	1.6	25
63	Singlet Oxygenâ€™s Response to Protein Dynamics. Journal of the American Chemical Society, 2011, 133, 7166-7173.	6.6	35
64	Singlet Oxygen Sensor Green^{Â®}: Photochemical Behavior in Solution and in a Mammalian Cell. Photochemistry and Photobiology, 2011, 87, 671-679.	1.3	229
65	Photodynamic Effects of Pterin on HeLa Cells. Photochemistry and Photobiology, 2011, 87, 862-866.	1.3	20
66	Single Cell Responses to Spatially Controlled Photosensitized Production of Extracellular Singlet Oxygen. Photochemistry and Photobiology, 2011, 87, 1077-1091.	1.3	24
67	Metal nanoparticle-enhanced radiative transitions: Giving singlet oxygen emission a boost. Pure and Applied Chemistry, 2011, 83, 885-898.	0.9	17
68	Mechanism of photooxidation of folic acid sensitized by unconjugated pterins. Photochemical and Photobiological Sciences, 2010, 9, 1604-1612.	1.6	55
69	Singlet oxygen: there is indeed something new under the sun. Chemical Society Reviews, 2010, 39, 3181.	18.7	1,002
70	Fluorescence Quenching by Oxygen: â€œDebunkingâ€•a Classic Rule. ChemPhysChem, 2010, 11, 796-798.	1.0	40
71	Reversible pHâ€Regulated Control of Photosensitized Singlet Oxygen Production Using a DNA iâ€Motif. Angewandte Chemie - International Edition, 2010, 49, 7923-7925.	7.2	44
72	Influence of a novel castorâ€oilâ€derived additive on the mechanical properties and oxygen diffusivity of polystyrene. Journal of Applied Polymer Science, 2010, 118, 1643-1650.	1.3	2

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73	Two-photon irradiation of an intracellular singlet oxygen photosensitizer: Achieving localized sub-cellular excitation in spatially-resolved experiments. Free Radical Research, 2010, 44, 1383-1397.	1.5	33
74	Effect of intracellular photosensitized singlet oxygen production on the electrophysiological properties of cultured rat hippocampal neurons. Photochemical and Photobiological Sciences, 2010, 9, 1621-1633.	1.6	15
75	Silica-Coated Gold Nanorods with a Gold Overcoat: Controlling Optical Properties by Controlling the Dimensions of a Goldâ^'Silicaâ^'Gold Layered Nanoparticle. Langmuir, 2010, 26, 4188-4195.	1.6	47
76	Temperature Effects on the Solvent-Dependent Deactivation of Singlet Oxygen. Journal of the American Chemical Society, 2010, 132, 8098-8105.	6.6	74
77	Photophysics of Squaraine Dyes: Role of Charge-Transfer in Singlet Oxygen Production and Removal. Journal of Physical Chemistry A, 2010, 114, 2518-2525.	1.1	57
78	Singlet oxygen: there is still something new under the sun, and it is better than ever. Photochemical and Photobiological Sciences, 2010, 9, 1543-1560.	1.6	99
79	Single Molecule Atomic Force Microscopy Studies of Photosensitized Singlet Oxygen Behavior on a DNA Origami Template. ACS Nano, 2010, 4, 7475-7480.	7.3	55
80	Imaging intracellular viscosity of a single cell during photoinduced cell death. Nature Chemistry, 2009, 1, 69-73.	6.6	544
81	Photoinduced Degradation of the Herbicide Clomazone Model Reactions for Natural and Technical Systems. Photochemistry and Photobiology, 2009, 85, 686-692.	1.3	18
82	Intramolecular Rotation in a Porphyrin Dimer Controls Singlet Oxygen Production. Journal of the American Chemical Society, 2009, 131, 7948-7949.	6.6	69
83	Photosensitized production of singlet oxygen: spatially-resolved optical studies in single cells. Photochemical and Photobiological Sciences, 2009, 8, 442-452.	1.6	66
84	Oxygen Diffusion in Cross-Linked, Ethanol-Swollen Poly(vinyl alcohol) Gels: Counter-Intuitive Results Reflect Microscopic Heterogeneities. Langmuir, 2009, 25, 1148-1153.	1.6	13
85	Molecular Tuning of Phenylene-Vinylene Derivatives for Two-Photon Photosensitized Singlet Oxygen Production. Journal of Organic Chemistry, 2009, 74, 9094-9104.	1.7	44
86	The photosensitizing activity of lumazine using 2â€²-deoxyguanosine 5â€²-monophosphate and HeLa cells as targets. Photochemical and Photobiological Sciences, 2009, 8, 1539.	1.6	13
87	One- and Two-Photon Excitation of Î²-Carbolines in Aqueous Solution: pH-Dependent Spectroscopy, Photochemistry, and Photophysics. Journal of Physical Chemistry A, 2009, 113, 6648-6656.	1.1	59
88	Effect of Polymer Cross-Links on Oxygen Diffusion in Glassy PMMA Films. ACS Applied Materials & Interfaces, 2009, 1, 661-667.	4.0	32
89	Influence of an Intermolecular Charge-Transfer State on Excited-State Relaxation Dynamics: Solvent Effect on the Methylnaphthaleneâ^'Oxygen System and its Significance for Singlet Oxygen Production. Journal of Physical Chemistry A, 2009, 113, 9965-9973.	1.1	41
90	Singlet Oxygen in a Cell: Spatially Dependent Lifetimes and Quenching Rate Constants. Journal of the American Chemical Society, 2009, 131, 332-340.	6.6	192

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91	Metalâ€Enhanced 1270â€…nm Singlet Oxygen Phosphorescence. Angewandte Chemie - International Edition, 2008, 47, 6025-6027.	7.2	50
92	Timeâ€resolved Singlet Oxygen Phosphorescence Measurements from Photosensitized Experiments in Single Cells: Effects of Oxygen Diffusion and Oxygen Concentration. Photochemistry and Photobiology, 2008, 84, 1284-1290.	1.3	119
93	Effects of conjugation length and resonance enhancement on two-photon absorption in phenyleneâ€“vinylene oligomers. Physical Chemistry Chemical Physics, 2008, 10, 1177-1191.	1.3	43
94	Effect of Solvent on Two-Photon Absorption by Vinyl Benzene Derivatives. Journal of Physical Chemistry A, 2008, 112, 7831-7839.	1.1	39
95	â€œInsideâ€•vs â€œOutsideâ€•Photooxygenation Reactions: Singlet-Oxygen-Mediated Surface Passivation of Polymer Films. Langmuir, 2008, 24, 9056-9065.	1.6	15
96	Spatial and Temporal Electrochemical Control of Singlet Oxygen Production and Decay in Photosensitized Experiments. Langmuir, 2008, 24, 1070-1079.	1.6	9
97	One- and Two-Photon Photosensitized Singlet Oxygen Production:Â Characterization of Aromatic Ketones as Sensitizer Standards. Journal of Physical Chemistry A, 2007, 111, 5756-5767.	1.1	61
98	Two-Photon Absorption in Tetraphenylporphycenes:Â Are Porphycenes Better Candidates than Porphyrins for Providing Optimal Optical Properties for Two-Photon Photodynamic Therapy?. Journal of the American Chemical Society, 2007, 129, 5188-5199.	6.6	189
99	Effect of Sensitizer Protonation on Singlet Oxygen Production in Aqueous and Nonaqueous Media. Journal of Physical Chemistry A, 2007, 111, 4573-4583.	1.1	27
100	Measuring the lifetime of singlet oxygen in a single cell: addressing the issue of cell viability. Photochemical and Photobiological Sciences, 2007, 6, 1106-1116.	1.6	243
101	Control and Selectivity of Photosensitized Singlet Oxygen Production: Challenges in Complex Biological Systems. ChemBioChem, 2007, 8, 475-481.	1.3	110
102	Mechanism of the temperature-dependent degradation of polyamide 66 films exposed to water. Polymer Degradation and Stability, 2007, 92, 1977-1985.	2.7	67
103	Two-Photon Photosensitized Production of Singlet Oxygen:Â Optical and Optoacoustic Characterization of Absolute Two-Photon Absorption Cross Sections for Standard Sensitizers in Different Solvents. Journal of Physical Chemistry A, 2006, 110, 7375-7385.	1.1	95
104	Optical detection of singlet oxygen from single cells. Physical Chemistry Chemical Physics, 2006, 8, 4280.	1.3	123
105	DNA-Programmed Control of Photosensitized Singlet Oxygen Production. Journal of the American Chemical Society, 2006, 128, 4200-4201.	6.6	119
106	Phototoxic Phytoalexins. Processes that Compete with the Photosensitized Production of Singlet Oxygen by 9-Phenylphenalenonesâ€. Photochemistry and Photobiology, 2006, 82, 95.	1.3	42
107	5,10,15,20-Tetrakis(N-Methyl-4-Pyridyl)-21H,23H-Porphine (TMPyP) as a Sensitizer for Singlet Oxygen Imaging in Cells: Characterizing the Irradiation-dependent Behavior of TMPyP in a Single Cellâ€. Photochemistry and Photobiology, 2006, 82, 177.	1.3	55
108	Overview of Theoretical and Computational Methods Applied to the Oxygenâ€“Organic Molecule Photosystem. Photochemistry and Photobiology, 2006, 82, 1136.	1.3	104

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109	Two-Photon Singlet Oxygen Microscopy: The Challenges of Working with Single Cells. Photochemistry and Photobiology, 2006, 82, 1187.	1.3	49
110	Singlet Oxygenâ€"Introduction. Photochemistry and Photobiology, 2006, 82, 1133.	1.3	4
111	The imaging of singlet oxygen in single cells. , 2005, 5689, 17.		1
112	Degradation of poly(1,4-phenylene sulfide) on exposure to chlorinated water. Polymer Degradation and Stability, 2005, 90, 67-77.	2.7	12
113	Lifetime and Diffusion of Singlet Oxygen in a Cell. Journal of Physical Chemistry B, 2005, 109, 8570-8573.	1.2	391
114	Singlet Oxygen Microscope: From Phase-Separated Polymers to Single Biological Cells. ChemInform, 2005, 36, no.	0.1	0
115	Application of a dithered sampling technique to increase the spatial resolution of singlet oxygen images. Review of Scientific Instruments, 2005, 76, 013701.	0.6	12
116	Subcellular, Time-Resolved Studies of Singlet Oxygen in Single Cells. Journal of the American Chemical Society, 2005, 127, 14558-14559.	6.6	109
117	Delayed Dissociation of Photoexcited Porphyrin Cations in a Storage Ring:â€‰ Determination of Triplet Quantum Yields. Journal of Physical Chemistry A, 2005, 109, 3875-3879.	1.1	14
118	Two-Photon Photosensitized Production of Singlet Oxygen in Water. Journal of the American Chemical Society, 2005, 127, 255-269.	6.6	172
119	Synthesis and Characterization of Water-Soluble Phenyleneâ^'Vinylene-Based Singlet Oxygen Sensitizers for Two-Photon Excitation. Journal of Organic Chemistry, 2005, 70, 7065-7079.	1.7	87
120	Two-Photon Photosensitized Production of Singlet Oxygen:Â Sensitizers with Phenyleneâ^'Ethynylene-Based Chromophores. Journal of Organic Chemistry, 2005, 70, 1134-1146.	1.7	118
121	Singlet Oxygen Microscope:â€‰ From Phase-Separated Polymers to Single Biological Cells. Accounts of Chemical Research, 2004, 37, 894-901.	7.6	75
122	Direct Optical Detection of Singlet Oxygen from a Single CellÂ¶. Photochemistry and Photobiology, 2004, 79, 319.	1.3	60
123	Rapid Communication: Direct Optical Detection of Singlet Oxygen from a Single Cell ^{Â¶}. Photochemistry and Photobiology, 2004, 79, 319-322.	1.3	4
124	Degradation of vinyl polymer films upon exposure to chlorinated water: the pronounced effect of a sample's thermal history. Polymer Degradation and Stability, 2003, 80, 293-304.	2.7	22
125	Oxygen Diffusion in Copolymers of Ethylene and Norbornene. Macromolecules, 2003, 36, 7189-7198.	2.2	33
126	Characterizing the Behavior and Properties of an Excited Electronic State: Electron-Transfer Mediated Quenching of Fluorescence. Journal of Chemical Education, 2003, 80, 819.	1.1	8

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127	Singlet Oxygen Images of Heterogeneous Samples:Â Examining the Effect of Singlet Oxygen Diffusion across the Interfacial Boundary in Phase-Separated Liquids and Polymers. Langmuir, 2003, 19, 8927-8933.	1.6	40
128	Oxygen Diffusion in Bilayer Polymer Films. Journal of Physical Chemistry B, 2003, 107, 13885-13891.	1.2	21
129	A nanosecond near-infrared step-scan Fourier transform absorption spectrometer: Monitoring singlet oxygen, organic molecule triplet states, and associated thermal effects upon pulsed-laser irradiation of a photosensitizer. Review of Scientific Instruments, 2002, 73, 4313-4325.	0.6	14
130	Absorption Spectrum of Singlet Oxygen (a1Î”gâ†' b1Î£g+) in D2O:Â Enabling the Test of a Model for the Effect of Solvent on Oxygen's Radiative Transitions. Journal of Physical Chemistry A, 2002, 106, 11064-11069.	1.1	30
131	A Singlet Oxygen Image with 2.5 Î¼m Resolution. Journal of Physical Chemistry A, 2002, 106, 8488-8490.	1.1	34
132	Effect of Solvent on the O2(a1Î”g) â†' O2(b1Î£g+) Absorption Spectrum:Â Demonstrating the Importance of Equilibrium vs Nonequilibrium Solvation. Journal of Physical Chemistry A, 2002, 106, 5263-5270.	1.1	18
133	Linear response properties for solvated molecules described by a combined multiconfigurational self-consistent-field/molecular mechanics model. Journal of Chemical Physics, 2002, 116, 3730-3738.	1.2	66
134	Two-Photon Photosensitized Production of Singlet Oxygen. Journal of the American Chemical Society, 2001, 123, 1215-1221.	6.6	257
135	Two-Photon Singlet Oxygen Sensitizers:Â Quantifying, Modeling, and Optimizing the Two-Photon Absorption Cross Section. Journal of Physical Chemistry A, 2001, 105, 11488-11495.	1.1	71
136	On the Mechanism of Polyamide Degradation in Chlorinated Water. Helvetica Chimica Acta, 2001, 84, 2540.	1.0	34
137	Time-resolved Detection of Singlet Oxygen in a Transmission MicroscopeÂ¶. Photochemistry and Photobiology, 2001, 73, 489-492.	1.3	20
138	The combined multiconfigurational self-consistent-field/molecular mechanics wave function approach. Journal of Chemical Physics, 2001, 115, 2393-2400.	1.2	66
139	A quantum mechanical method for calculating nonlinear optical properties of condensed phase molecules coupled to a molecular mechanics field: A quadratic multiconfigurational self-consistent-field/molecular mechanics response method. Journal of Chemical Physics, 2001, 115, 7843-7851.	1.2	56
140	Time-resolved detection of singlet oxygen in a transmission microscope. Photochemistry and Photobiology, 2001, 73, 489-92.	1.3	4
141	Oxygen Diffusion in Glassy Polymer Films:Â Effects of Other Gases and Changes in Pressure. Journal of Physical Chemistry A, 2000, 104, 2573-2580.	1.1	38
142	O2(a1Î”g) Absorption and O2(b1Î£g+) Emission in Solution:Â Quantifying the aâ^'b Stokes Shiftâ€. Journal of Physical Chemistry A, 2000, 104, 10550-10555.	1.1	24
143	Quadratic response of molecules in a nonequilibrium and equilibrium solvation model: Generalizations to include both singlet and triplet perturbations. Journal of Chemical Physics, 1999, 111, 2678-2685.	1.2	10
144	Singlet Sigma: The â€œOtherâ€•Singlet Oxygen in Solution. Photochemistry and Photobiology, 1999, 70, 369-379.	1.3	24

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145	Radiative Transitions of Singlet Oxygen: New Tools, New Techniques and New Interpretations. Photochemistry and Photobiology, 1999, 70, 531-539.	1.3	45
146	Singlet Oxygen as a Reactive Intermediate in the Photodegradation of Phenylenevinylene Oligomers. Chemistry of Materials, 1999, 11, 1302-1305.	3.2	89
147	The aÎ”g â†' X3Î£g- Transition in Molecular Oxygen:â€‰ Interpretation of Solvent Effects on Spectral Shifts. Journal of Physical Chemistry A, 1999, 103, 3418-3422.	1.1	31
148	Solvent Effects on the Radiative Transitions of Singlet Oxygen. Accounts of Chemical Research, 1999, 32, 512-519.	7.6	120
149	Singlet Sigma: The â€œOtherâ€•Singlet Oxygen in Solution. Photochemistry and Photobiology, 1999, 70, 369.	1.3	34
150	Polarizabilities of the First Excited (a1Î”g) and Ground (X3) States of Molecular Oxygen. Journal of Physical Chemistry A, 1998, 102, 8970-8973.	1.1	33
151	Solvent Effect on the O2(bÎ£g+) â†' O2(a1Î”g) Emission Spectrum. Journal of Physical Chemistry A, 1998, 102, 1498-1500.	1.1	25
152	Time-Resolved Absorption Spectrum of Singlet Oxygen in Solution. Journal of the American Chemical Society, 1998, 120, 12978-12979.	6.6	28
153	Solvent Effects on the O2(aÎ”g)â^'O2(X3Î£g-) Radiative Transition:â€‰ Comments Regarding Charge-Transfer Interactions. Journal of Physical Chemistry A, 1998, 102, 9829-9832.	1.1	67
154	Chemical Reactivity of Singlet Sigma Oxygen (b1Î£g+) in Solution. Journal of the American Chemical Society, 1996, 118, 388-392.	6.6	52
155	Quenching of O2(a1Î”g) by O2(a1Î”g) in Solution. The Journal of Physical Chemistry, 1996, 100, 17226-17231.	2.9	21
156	Formation and Removal of Singlet (a¹Î”_g) Oxygen in Bulk Polymers: Events That May Influence Photodegradation. Advances in Chemistry Series, 1996, , 113-126.	0.6	19
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