# Peter Ogilby

List of Publications by Year
in descending order

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|---|---|---|---|
| 191 papers | 11,039 citations | 28274 55 h-index | 34986 98 g-index |
| 203 all docs | 203 docs citations | 203 times ranked | 9704 citing authors |

| # | Article | IF | Citations |
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| 1 | Singlet oxygen: there is indeed something new under the sun. Chemical Society Reviews, 2010, 39, 3181. | 38.1 | 1,002 |
| 2 | Imaging intracellular viscosity of a single cell during photoinduced cell death. Nature Chemistry, 2009, 1, 69-73. | 13.6 | 544 |
| 3 | Lifetime and Diffusion of Singlet Oxygen in a Cell. Journal of Physical Chemistry B, 2005, 109, 8570-8573. | 2.6 | 391 |
| 4 | Chemistry of singlet oxygen. 42. Effect of solvent, solvent isotopic substitution, and temperature on the lifetime of singlet molecular oxygen (1.DELTA.g). Journal of the American Chemical Society, 1983, 105, 3423-3430. | 13.7 | 379 |
| 5 | Singlet Oxygen as a Reactive Intermediate in the Photodegradation of an Electroluminescent Polymer. Journal of the American Chemical Society, 1995, 117, 10194-10202. | 13.7 | 338 |
| 6 | Two-Photon Photosensitized Production of Singlet Oxygen. Journal of the American Chemical Society, 2001, 123, 1215-1221. | 13.7 | 257 |
| 7 | Measuring the lifetime of singlet oxygen in a single cell: addressing the issue of cell viability. Photochemical and Photobiological Sciences, 2007, 6, 1106-1116. | 2.9 | 243 |
| 8 | Singlet Oxygen Sensor Green<sup>Â®</sup>: Photochemical Behavior in Solution and in a Mammalian Cell. Photochemistry and Photobiology, 2011, 87, 671-679. | 2.5 | 229 |
| 9 | Singlet Oxygen in a Cell: Spatially Dependent Lifetimes and Quenching Rate Constants. Journal of the American Chemical Society, 2009, 131, 332-340. | 13.7 | 192 |
| 10 | 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. | 13.7 | 189 |
| 11 | Solvent-dependent singlet oxygen lifetimes: temperature effects implicate tunneling and charge-transfer interactions. Physical Chemistry Chemical Physics, 2016, 18, 22946-22961. | 2.8 | 174 |
| 12 | Two-Photon Photosensitized Production of Singlet Oxygen in Water. Journal of the American Chemical Society, 2005, 127, 255-269. | 13.7 | 172 |
| 13 | Chemistry of singlet oxygen. 36. Singlet molecular oxygen (1.DELTA.g) luminescence in solution following pulsed laser excitation. Solvent deuterium isotope effects on the lifetime of singlet oxygen. Journal of the American Chemical Society, 1982, 104, 2069-2070. | 13.7 | 171 |
| 14 | Effect of Solvent on the Radiative Decay of Singlet Molecular Oxygen (a1.DELTA.g). The Journal of Physical Chemistry, 1995, 99, 3521-3526. | 2.9 | 138 |
| 15 | Charge-transfer state and singlet oxygen (1.DELTA.g O2) production in photoexcited organic molecule-molecular oxygen complexes. The Journal of Physical Chemistry, 1991, 95, 5190-5197. | 2.9 | 132 |
| 16 | Optical detection of singlet oxygen from single cells. Physical Chemistry Chemical Physics, 2006, 8, 4280. | 2.8 | 123 |
| 17 | Solvent Effects on the Radiative Transitions of Singlet Oxygen. Accounts of Chemical Research, 1999, 32, 512-519. | 15.6 | 120 |
| 18 | DNA-Programmed Control of Photosensitized Singlet Oxygen Production. Journal of the American Chemical Society, 2006, 128, 4200-4201. | 13.7 | 119 |

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| 19 | 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. | 2.5 | 119 |
| 20 | Two-Photon Photosensitized Production of Singlet Oxygen:Â Sensitizers with Phenyleneâ^'Ethynylene-Based Chromophores. Journal of Organic Chemistry, 2005, 70, 1134-1146. | 3.2 | 118 |
| 21 | Effect of solvent on the rate constant for the radiative deactivation of singlet molecular oxygen (1.DELTA.gO2). The Journal of Physical Chemistry, 1987, 91, 4599-4602. | 2.9 | 115 |
| 22 | Control and Selectivity of Photosensitized Singlet Oxygen Production: Challenges in Complex Biological Systems. ChemBioChem, 2007, 8, 475-481. | 2.6 | 110 |
| 23 | Subcellular, Time-Resolved Studies of Singlet Oxygen in Single Cells. Journal of the American Chemical Society, 2005, 127, 14558-14559. | 13.7 | 109 |
| 24 | Analysis of CH2 alƒâ€‰1A1 (1,0,0) and (0,0,1) Coriolisâ€coupled states, alƒâ€‰1A1â€“Xlƒâ€‰3B1 spinâ€“orbit coupling, and the equilibrium structure of CH2 alƒâ€‰1A1 state. Journal of Chemical Physics, 1989, 91, 6566-6578. | 3.0 | 105 |
| 25 | 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. | 13.7 | 105 |
| 26 | Overview of Theoretical and Computational Methods Applied to the Oxygenâ€“Organic Molecule Photosystem. Photochemistry and Photobiology, 2006, 82, 1136. | 2.5 | 104 |
| 27 | Singlet oxygen: there is still something new under the sun, and it is better than ever. Photochemical and Photobiological Sciences, 2010, 9, 1543-1560. | 2.9 | 99 |
| 28 | Rational Design of an Efficient, Genetically Encodable, Protein-Encased Singlet Oxygen Photosensitizer. Journal of the American Chemical Society, 2015, 137, 1632-1642. | 13.7 | 98 |
| 29 | Aarhus Sensor Green: A Fluorescent Probe for Singlet Oxygen. Journal of Organic Chemistry, 2014, 79, 3079-3087. | 3.2 | 97 |
| 30 | Singlet Oxygen Photophysics in Liquid Solvents: Converging on a Unified Picture. Accounts of Chemical Research, 2017, 50, 1920-1927. | 15.6 | 97 |
| 31 | 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. | 2.5 | 95 |
| 32 | Oxygenâ€Dependent Photochemistry and Photophysics of â€œMiniSOG,â€• a Proteinâ€Encased Flavin. Photochemistry and Photobiology, 2013, 89, 1116-1126. | 2.5 | 94 |
| 33 | Singlet Oxygen as a Reactive Intermediate in the Photodegradation of Phenylenevinylene Oligomers. Chemistry of Materials, 1999, 11, 1302-1305. | 6.7 | 89 |
| 34 | Synthesis and Characterization of Water-Soluble Phenyleneâ^'Vinylene-Based Singlet Oxygen Sensitizers for Two-Photon Excitation. Journal of Organic Chemistry, 2005, 70, 7065-7079. | 3.2 | 87 |
| 35 | 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. | 2.6 | 85 |
| 36 | Singlet molecular oxygen (1.DELTA.gO2) formation upon irradiation of an oxygen (3.SIGMA.g-O2)-organic molecule charge-transfer absorption band. The Journal of Physical Chemistry, 1989, 93, 5493-5500. | 2.9 | 81 |

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| 37 | Singlet Oxygen Microscope:â€‰ From Phase-Separated Polymers to Single Biological Cells. Accounts of Chemical Research, 2004, 37, 894-901. | 15.6 | 75 |
| 38 | Temperature Effects on the Solvent-Dependent Deactivation of Singlet Oxygen. Journal of the American Chemical Society, 2010, 132, 8098-8105. | 13.7 | 74 |
| 39 | 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. | 2.5 | 71 |
| 40 | Intramolecular Rotation in a Porphyrin Dimer Controls Singlet Oxygen Production. Journal of the American Chemical Society, 2009, 131, 7948-7949. | 13.7 | 69 |
| 41 | No Photon Wasted: An Efficient and Selective Singlet Oxygen Photosensitizing Protein. Journal of Physical Chemistry B, 2017, 121, 9366-9371. | 2.6 | 68 |
| 42 | 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. | 2.5 | 67 |
| 43 | Mechanism of the temperature-dependent degradation of polyamide 66 films exposed to water. Polymer Degradation and Stability, 2007, 92, 1977-1985. | 5.8 | 67 |
| 44 | Chemistry of singlet oxygen. 39. 9,10-Dicyanoanthracene-sensitized formation of singlet oxygen. The Journal of Physical Chemistry, 1983, 87, 2261-2263. | 2.9 | 66 |
| 45 | The combined multiconfigurational self-consistent-field/molecular mechanics wave function approach. Journal of Chemical Physics, 2001, 115, 2393-2400. | 3.0 | 66 |
| 46 | 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. | 3.0 | 66 |
| 47 | Photosensitized production of singlet oxygen: spatially-resolved optical studies in single cells. Photochemical and Photobiological Sciences, 2009, 8, 442-452. | 2.9 | 66 |
| 48 | Direct 765 nm Optical Excitation of Molecular Oxygen in Solution and in Single Mammalian Cells. Journal of Physical Chemistry B, 2015, 119, 5422-5429. | 2.6 | 65 |
| 49 | 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. | 2.5 | 61 |
| 50 | Direct Optical Detection of Singlet Oxygen from a Single CellÂ¶. Photochemistry and Photobiology, 2004, 79, 319. | 2.5 | 60 |
| 51 | 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. | 2.5 | 59 |
| 52 | Photophysics of Squaraine Dyes: Role of Charge-Transfer in Singlet Oxygen Production and Removal. Journal of Physical Chemistry A, 2010, 114, 2518-2525. | 2.5 | 57 |
| 53 | Activation Barriers for Oxygen Diffusion in Polystyrene and Polycarbonate Glasses: Effects of Low Molecular Weight Additives. Macromolecules, 1994, 27, 7041-7048. | 4.8 | 56 |
| 54 | 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. | 3.0 | 56 |

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| 55 | 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. | 2.5 | 55 |
| 56 | Mechanism of photooxidation of folic acid sensitized by unconjugated pterins. Photochemical and Photobiological Sciences, 2010, 9, 1604-1612. | 2.9 | 55 |
| 57 | Single Molecule Atomic Force Microscopy Studies of Photosensitized Singlet Oxygen Behavior on a DNA Origami Template. ACS Nano, 2010, 4, 7475-7480. | 14.6 | 55 |
| 58 | Chemical Reactivity of Singlet Sigma Oxygen (b1Î£g+) in Solution. Journal of the American Chemical Society, 1996, 118, 388-392. | 13.7 | 52 |
| 59 | Metalâ€Enhanced 1270â€...nm Singlet Oxygen Phosphorescence. Angewandte Chemie - International Edition, 2008, 47, 6025-6027. | 13.8 | 50 |
| 60 | Ground-state benzene-oxygen complex. The Journal of Physical Chemistry, 1991, 95, 7868-7871. | 2.9 | 49 |
| 61 | Two-Photon Singlet Oxygen Microscopy: The Challenges of Working with Single Cells. Photochemistry and Photobiology, 2006, 82, 1187. | 2.5 | 49 |
| 62 | Singlet Oxygen in DNA Nanotechnology. Accounts of Chemical Research, 2014, 47, 1799-1806. | 15.6 | 49 |
| 63 | 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. | 3.5 | 47 |
| 64 | Chemistry of singlet oxygen. 34. Unexpected solvent deuterium isotope effects on the lifetime of singlet molecular oxygen (1.DELTA.g). Journal of the American Chemical Society, 1981, 103, 1219-1221. | 13.7 | 46 |
| 65 | Radiative Transitions of Singlet Oxygen: New Tools, New Techniques and New Interpretations. Photochemistry and Photobiology, 1999, 70, 531-539. | 2.5 | 45 |
| 66 | Molecular Tuning of Phenylene-Vinylene Derivatives for Two-Photon Photosensitized Singlet Oxygen Production. Journal of Organic Chemistry, 2009, 74, 9094-9104. | 3.2 | 44 |
| 67 | Reversible pHâ€Regulated Control of Photosensitized Singlet Oxygen Production Using a DNA iâ€Motif. Angewandte Chemie - International Edition, 2010, 49, 7923-7925. | 13.8 | 44 |
| 68 | The effect of humic acid binding to magnetite nanoparticles on the photogeneration of reactive oxygen species. Separation and Purification Technology, 2012, 91, 23-29. | 7.9 | 44 |
| 69 | Excited-state charge-transfer complexes formed between C60 and substituted naphthalenes. Journal of Photochemistry and Photobiology A: Chemistry, 1995, 91, 21-25. | 3.9 | 43 |
| 70 | Effects of conjugation length and resonance enhancement on two-photon absorption in phenyleneâ€“vinylene oligomers. Physical Chemistry Chemical Physics, 2008, 10, 1177-1191. | 2.8 | 43 |
| 71 | Phototoxic Phytoalexins. Processes that Compete with the Photosensitized Production of Singlet Oxygen by 9-Phenylphenalenonesâ€. Photochemistry and Photobiology, 2006, 82, 95. | 2.5 | 42 |
| 72 | 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. | 2.9 | 42 |

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| 74 | 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. | 3.5 | 40 |
| 75 | Fluorescence Quenching by Oxygen: â€œDebunkingâ€•a Classic Rule. ChemPhysChem, 2010, 11, 796-798. | 2.1 | 40 |
| 76 | Antioxidant Î²-Carotene Does Not Quench Singlet Oxygen in Mammalian Cells. Journal of the American Chemical Society, 2013, 135, 272-279. | 13.7 | 40 |
| 77 | Behavior of singlet molecular oxygen (1.DELTA.gO2) in a polymer matrix: effects of temperature, matrix rigidity, and molecular composition. Macromolecules, 1989, 22, 3620-3628. | 4.8 | 39 |
| 78 | Effect of Solvent on Two-Photon Absorption by Vinyl Benzene Derivatives. Journal of Physical Chemistry A, 2008, 112, 7831-7839. | 2.5 | 39 |
| 79 | A time-resolved study of singlet molecular oxygen (1.DELTA.gO2) formation in a solution-phase photosensitized reaction: a new experimental technique to examine the dynamics of quenching by oxygen. The Journal of Physical Chemistry, 1987, 91, 1611-1617. | 2.9 | 38 |
| 80 | Singlet oxygen formation in a solid organic polymer upon irradiation of the oxygen-polymer charge-transfer band. Macromolecules, 1990, 23, 2698-2704. | 4.8 | 38 |
| 81 | Quantum Yield of Photosensitized Singlet Oxygen (a1.DELTA.g) Production in Solid Polystyrene. Macromolecules, 1994, 27, 4787-4794. | 4.8 | 38 |
| 82 | Oxygen Diffusion in Glassy Polymer Films:Â Effects of Other Gases and Changes in Pressure. Journal of Physical Chemistry A, 2000, 104, 2573-2580. | 2.5 | 38 |
| 83 | Temperature Sensitive Singlet Oxygen Photosensitization by LOV-Derived Fluorescent Flavoproteins. Journal of Physical Chemistry B, 2017, 121, 2561-2574. | 2.6 | 38 |
| 84 | Quenching of singlet oxygen in solid organic polymers. Macromolecules, 1992, 25, 3399-3405. | 4.8 | 37 |
| 85 | Singlet-Oxygen-Mediated Cell Death Using Spatially-Localized Two-Photon Excitation of an Extracellular Sensitizer. Journal of Physical Chemistry B, 2012, 116, 10234-10246. | 2.6 | 37 |
| 86 | A ligand substituted tungsten iodide cluster: luminescence vs. singlet oxygen production. Dalton Transactions, 2016, 45, 15500-15506. | 3.3 | 37 |
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| 88 | Singlet Oxygenâ€™s Response to Protein Dynamics. Journal of the American Chemical Society, 2011, 133, 7166-7173. | 13.7 | 35 |
| 89 | On the Mechanism of Polyamide Degradation in Chlorinated Water. Helvetica Chimica Acta, 2001, 84, 2540. | 1.6 | 34 |
| 90 | A Singlet Oxygen Image with 2.5 Î¼m Resolution. Journal of Physical Chemistry A, 2002, 106, 8488-8490. | 2.5 | 34 |

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| 91 | Solvent and Heavy-Atom Effects on the O<sub>2</sub>(X<sup>3</sup>Î£<sub>g</sub><sup>â€“</sup>) â†’ O<sub>2</sub>(b<sup>1</sup>Î£<sub>g</sub><sup>+</sup>) Absorption Transition. Journal of Physical Chemistry A, 2016, 120, 8285-8296. | 2.5 | 34 |
| 92 | Biomimetic Approach to Inhibition of Photooxidation in Organic Solar Cells Using Beta-Carotene as an Additive. ACS Applied Materials & Interfaces, 2019, 11, 41570-41579. | 8.0 | 34 |
| 93 | Rational design of genetically encoded singlet oxygen photosensitizing proteins. Current Opinion in Structural Biology, 2019, 57, 56-62. | 5.7 | 34 |
| 94 | Singlet Sigma: The â€œOtherâ€•Singlet Oxygen in Solution. Photochemistry and Photobiology, 1999, 70, 369. | 2.5 | 34 |
| 95 | Polarizabilities of the First Excited (a1Î”g) and Ground (X3) States of Molecular Oxygen. Journal of Physical Chemistry A, 1998, 102, 8970-8973. | 2.5 | 33 |
| 96 | Oxygen Diffusion in Copolymers of Ethylene and Norbornene. Macromolecules, 2003, 36, 7189-7198. | 4.8 | 33 |
| 97 | 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. | 3.3 | 33 |
| 98 | Effect of Polymer Cross-Links on Oxygen Diffusion in Glassy PMMA Films. ACS Applied Materials & Interfaces, 2009, 1, 661-667. | 8.0 | 32 |
| 99 | 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. | 2.5 | 31 |
| 100 | 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. | 2.5 | 30 |
| 101 | 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. | 1.3 | 29 |
| 102 | Azadioxatriangulenium and Diazaoxatriangulenium: Quantum Yields and Fundamental Photophysical Properties. ACS Omega, 2017, 2, 193-203. | 3.5 | 29 |
| 103 | Quenching of b1.SIGMA.g+ oxygen in solution. The Journal of Physical Chemistry, 1993, 97, 193-195. | 2.9 | 28 |
| 104 | Time-Resolved Absorption Spectrum of Singlet Oxygen in Solution. Journal of the American Chemical Society, 1998, 120, 12978-12979. | 13.7 | 28 |
| 105 | Production of singlet oxygen (1Î”g O2) by 9,10-dicyanoanthracene and acridine: quantum yields in acetonitrile. Journal of Photochemistry and Photobiology A: Chemistry, 1993, 72, 1-7. | 3.9 | 27 |
| 106 | Effect of Sensitizer Protonation on Singlet Oxygen Production in Aqueous and Nonaqueous Media. Journal of Physical Chemistry A, 2007, 111, 4573-4583. | 2.5 | 27 |
| 107 | Spectroscopic evidence for the formation of singlet molecular oxygen (1.DELTA.gO2) upon irradiation of a solvent-oxygen (3.SIGMA.g-O2) cooperative absorption band. Journal of the American Chemical Society, 1988, 110, 640-641. | 13.7 | 26 |
| 108 | Exerting better control and specificity with singlet oxygen experiments in live mammalian cells. Methods, 2016, 109, 81-91. | 3.8 | 26 |

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| 109 | Formation of singlet molecular oxygen (1.DELTA.gO2) in a solution-phase photosensitized reaction. 2. A comment on static quenching. The Journal of Physical Chemistry, 1988, 92, 4662-4666. | 2.9 | 25 |
| 110 | Solvent Effect on the O2(bÎ£g+) â†' O2(a1Î”g) Emission Spectrum. Journal of Physical Chemistry A, 1998, 102, 1498-1500. | 2.5 | 25 |
| 111 | The role of humic acid aggregation on the kinetics of photosensitized singlet oxygen production and decay. Photochemical and Photobiological Sciences, 2011, 10, 1080-1086. | 2.9 | 25 |
| 112 | Solvent Effects on the Oxygen-Organic Molecule Charge-Transfer Absorption. The Journal of Physical Chemistry, 1994, 98, 11918-11923. | 2.9 | 24 |
| 113 | Singlet Sigma: The â€œOtherâ€•Singlet Oxygen in Solution. Photochemistry and Photobiology, 1999, 70, 369-379. | 2.5 | 24 |
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| 115 | Single Cell Responses to Spatially Controlled Photosensitized Production of Extracellular Singlet Oxygen. Photochemistry and Photobiology, 2011, 87, 1077-1091. | 2.5 | 24 |
| 116 | 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. | 2.8 | 23 |
| 117 | A new technique to quantify oxygen diffusion in polymer films. Macromolecules, 1992, 25, 4962-4966. | 4.8 | 22 |
| 118 | Activation barriers for oxygen diffusion in polystyrene and polycarbonate glasses: effects of codissolved argon, helium, and nitrogen. Canadian Journal of Chemistry, 1995, 73, 1831-1840. | 1.1 | 22 |
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| 120 | 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. | 2.3 | 22 |
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| 123 | Monitoring Interfacial Lipid Oxidation in Oil-in-Water Emulsions Using Spatially Resolved Optical Techniques. Analytical Chemistry, 2017, 89, 6239-6247. | 6.5 | 21 |
| 124 | Time-resolved Detection of Singlet Oxygen in a Transmission MicroscopeÂ¶. Photochemistry and Photobiology, 2001, 73, 489-492. | 2.5 | 20 |
| 125 | Photodynamic Effects of Pterin on HeLa Cells. Photochemistry and Photobiology, 2011, 87, 862-866. | 2.5 | 20 |
| 126 | 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. | 2.8 | 20 |

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| 127 | 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. | 2.6 | 20 |
| 128 | Magnetic field effects on excited-state oxygen-organic molecule interactions. The Journal of Physical Chemistry, 1993, 97, 4689-4694. | 2.9 | 19 |
| 129 | Relative fraction of excited-state oxygen formed as b1.SIGMA.g+ in solution-phase photosensitized reactions. The Journal of Physical Chemistry, 1993, 97, 9593-9598. | 2.9 | 19 |
| 130 | Formation and Removal of Singlet (a<sup>1</sup>Î”<sub>g</sub>) Oxygen in Bulk Polymers: Events That May Influence Photodegradation. Advances in Chemistry Series, 1996, , 113-126. | 0.6 | 19 |
| 131 | Temperature Effect on Radiative Lifetimes: The Case of Singlet Oxygen in Liquid Solvents. Journal of Physical Chemistry B, 2013, 117, 16227-16235. | 2.6 | 19 |
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| 135 | 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. | 2.5 | 18 |
| 136 | Photoinduced Degradation of the Herbicide Clomazone Model Reactions for Natural and Technical Systems. Photochemistry and Photobiology, 2009, 85, 686-692. | 2.5 | 18 |
| 137 | Perturbed and Activated Decay: The Lifetime of Singlet Oxygen in Liquid Organic Solvents. Journal of the American Chemical Society, 2022, 144, 10902-10911. | 13.7 | 18 |
| 138 | Metal nanoparticle-enhanced radiative transitions: Giving singlet oxygen emission a boost. Pure and Applied Chemistry, 2011, 83, 885-898. | 1.9 | 17 |
| 139 | Selective quenching of triplet excited states of pteridines. Photochemical and Photobiological Sciences, 2014, 13, 1058-1065. | 2.9 | 17 |
| 140 | Light Scattering versus Plasmon Effects: Optical Transitions in Molecular Oxygen near a Metal Nanoparticle. Journal of Physical Chemistry C, 2018, 122, 15625-15634. | 3.1 | 16 |
| 141 | Uric Acid: A Lessâ€tthanâ€Perfect Probe for Singlet Oxygen. Photochemistry and Photobiology, 2019, 95, 202-210. | 2.5 | 16 |
| 142 | â€œInsideâ€•vs â€œOutsideâ€•Photooxygenation Reactions: Singlet-Oxygen-Mediated Surface Passivation of Polymer Films. Langmuir, 2008, 24, 9056-9065. | 3.5 | 15 |
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| 144 | 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. | 1.3 | 14 |

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