# Robert J Stanley

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 55 papers | 1,384 citations | 361413 20 h-index | 345221 36 g-index |
| 58 all docs | 58 docs citations | 58 times ranked | 1079 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Comparing ultrafast excited state quenching of flavin 1,N6-ethenoadenine dinucleotide and flavin adenine dinucleotide by optical spectroscopy and DFT calculations. Photochemical and Photobiological Sciences, 2022, 21, 959-982. | 2.9 | 2 |
| 2 | Screening for novel fluorescent nucleobase analogs (FBAs) using computational and experimental methods â€•2â€aminoâ€8â€vinylpurine (2A8VP), as a Case study. FASEB Journal, 2022, 36, . | 0.5 | 0 |
| 3 | Optically Controlled Electron Transfer in a Re<sup>I</sup> Complex. Chemistry - A European Journal, 2021, 27, 5399-5403. | 3.3 | 6 |
| 4 | THz-Pump/SC-Probe Spectroscopy and the Non-resonant Dynamic Stark Effect of Molecules. , 2021, , . | | 0 |
| 5 | Stark Spectroscopy of Lumichrome: A Possible Candidate for Stand-Off Detection of Bacterial Quorum Sensing. Journal of Physical Chemistry B, 2020, 124, 11835-11842. | 2.6 | 4 |
| 6 | Ultrafast flavin/tryptophan radical pair kinetics in a magnetically sensitive artificial protein. Physical Chemistry Chemical Physics, 2019, 21, 13453-13461. | 2.8 | 9 |
| 7 | Measuring electronic structure properties of flavins and flavoproteins by electronic Stark spectroscopy. Methods in Enzymology, 2019, 620, 215-250. | 1.0 | 4 |
| 8 | Dipole Moment and Polarizability of Tunable Intramolecular Charge Transfer States in Heterocyclic Ï€-Conjugated Molecular Dyads Determined by Computational and Stark Spectroscopic Study. Journal of Physical Chemistry C, 2018, 122, 9346-9355. | 3.1 | 13 |
| 9 | Determinants of Photolyaseâ€™s DNA Repair Mechanism in Mesophiles and Extremophiles. Journal of the American Chemical Society, 2018, 140, 2853-2861. | 13.7 | 19 |
| 10 | An Ethenoadenine FAD Analog Accelerates UV Dimer Repair by DNA Photolyase. Photochemistry and Photobiology, 2017, 93, 343-354. | 2.5 | 7 |
| 11 | Characterization of a cold-adapted DNA photolyase from C. psychrerythraea 34H. Extremophiles, 2017, 21, 919-932. | 2.3 | 6 |
| 12 | Overlapping Electronic States with Nearly Parallel Transition Dipole Moments in Reduced Anionic Flavin Can Distort Photobiological Dynamics. Journal of the American Chemical Society, 2016, 138, 14880-14889. | 13.7 | 12 |
| 13 | Coexistence of Different Electronâ€Transfer Mechanisms in the DNA Repair Process by Photolyase. Chemistry - A European Journal, 2016, 22, 11371-11381. | 3.3 | 23 |
| 14 | The Missing Electrostatic Interactions Between DNA Substrate andSulfolobus solfataricusDNA Photolyase: What is the Role of Charged Amino Acids in Thermophilic DNA Binding Proteins?. Journal of Physical Chemistry B, 2016, 120, 10234-10242. | 2.6 | 6 |
| 15 | Excited State Electronic Structures of 5,10-Methenyltetrahydrofolate and 5,10-Methylenetetrahydrofolate Determined by Stark Spectroscopy. Journal of Physical Chemistry A, 2014, 118, 8320-8328. | 2.5 | 6 |
| 16 | A â€œHow-Toâ€•Guide to the Stark Spectroscopy of Flavins and Flavoproteins. Methods in Molecular Biology, 2014, 1146, 443-466. | 0.9 | 7 |
| 17 | Excited State Charge Redistribution and Dynamics in the Donor-Ï€-Acceptor Flavin Derivative ABFL. Journal of Physical Chemistry B, 2013, 117, 15684-15694. | 2.6 | 15 |
| 18 | 10 Excited state electronic structure of flavins and flavoproteins from theory and experiment. , 2013, , 225-254. | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Oxidation and reduction potentials of 8-vinyladenosine measured by cyclic voltammetry: Implications for photoinduced electron transfer quenching of a fluorescent adenine analog. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 249, 9-14. | 3.9 | 9 |
| 20 | Excited-State Electronic Properties of 6-Methylisoxanthopterin (6-MI): An Experimental and Theoretical Study. Journal of Physical Chemistry B, 2012, 116, 2981-2989. | 2.6 | 11 |
| 21 | Flavin as a photo-active acceptor for efficient energy and charge transfer in a model donorâ€“acceptor system. Physical Chemistry Chemical Physics, 2012, 14, 6749. | 2.8 | 20 |
| 22 | Change in Electronic Structure upon Optical Excitation of 8-Vinyladenosine: An Experimental and Theoretical Study. Journal of Physical Chemistry A, 2010, 114, 256-267. | 2.5 | 24 |
| 23 | Photoinduced Electron Transfer Occurs between 2-Aminopurine and the DNA Nucleic Acid Monophosphates: Results from Cyclic Voltammetry and Fluorescence Quenching. Journal of Physical Chemistry B, 2010, 114, 10573-10580. | 2.6 | 18 |
| 24 | Differential Fluorescence Quenching of Fluorescent Nucleic Acid Base Analogues by Native Nucleic Acid Monophosphates. Journal of Physical Chemistry B, 2010, 114, 5953-5963. | 2.6 | 20 |
| 25 | Charge Redistribution in Oxidized and Semiquinone E. coli DNA Photolyase upon Photoexcitation: Stark Spectroscopy Reveals a Rationale for the Position of Trp382. Journal of the American Chemical Society, 2009, 131, 4795-4807. | 13.7 | 42 |
| 26 | The Extent of DNA Deformation in DNA Photolyaseâ€“ Substrate Complexes: A Solution State Fluorescence Study. Photochemistry and Photobiology, 2008, 84, 741-749. | 2.5 | 20 |
| 27 | Electronic Transition Dipole Moment Directions of Reduced Anionic Flavin in Stretched Poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overloc | 2.6 | 18 |
| 28 | 2-Aminopurine Excited State Electronic Structure Measured by Stark Spectroscopy. Journal of Physical Chemistry B, 2008, 112, 1789-1795. | 2.6 | 16 |
| 29 | 6MAP, a Fluorescent Adenine Analogue, Is a Probe of Base Flipping by DNA Photolyase. Journal of Physical Chemistry B, 2007, 111, 10615-10625. | 2.6 | 22 |
| 30 | Differential Distortion of Substrate Occurs When It Binds to DNA Photolyase:Â A 2-Aminopurine Studyâ€. Biochemistry, 2006, 45, 11239-11245. | 2.5 | 18 |
| 31 | Hydrophobic Distal Pocket Affects NOâ^'Heme Geminate Recombination Dynamics in Dehaloperoxidase and H64V Myoglobin. Journal of Physical Chemistry B, 2006, 110, 14483-14493. | 2.6 | 13 |
| 32 | Cyclobutylthymidine Dimer Repair by DNA Photolyase in Real Time. ACS Symposium Series, 2006, , 137-144. | 0.5 | 1 |
| 33 | Intermediates in the ultrafast repair of DNA by DNA photolyase. , 2006, , 337-345. | | 0 |
| 34 | A cryogenic optical waveguide spectrometer for the measurement of low-temperature absorption spectra of dilute biological samples. Analytical Biochemistry, 2005, 337, 121-129. | 2.4 | 4 |
| 35 | The Two-Photon Excitation Cross Section of 6MAP, a Fluorescent Adenine Analogue. Journal of Physical Chemistry B, 2005, 109, 3690-3695. | 2.6 | 28 |
| 36 | Measurement of the Electronic Properties of the Flavoprotein Old Yellow Enzyme (OYE) and the OYE:p-Cl Phenol Charge-Transfer Complex Using Stark Spectroscopyâ€. Biochemistry, 2003, 42, 991-999. | 2.5 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Cisâ”SynThymidine Dimer Repair by DNA Photolyase in Real Timeâ€. Biochemistry, 2003, 42, 8558-8568. | 2.5 | 88 |
| 38 | Cyclobutylpyrimidine Dimer Base Flipping by DNA Photolyase. Journal of Biological Chemistry, 2002, 277, 38339-38344. | 3.4 | 62 |
| 39 | A theoretical explanation for quantum yield failure in bacterial photosynthetic reaction centers. Chemical Physics, 2002, 276, 115-127. | 1.9 | 8 |
| 40 | Advances in Flavin and Flavoprotein Optical Spectroscopy. Antioxidants and Redox Signaling, 2001, 3, 847-866. | 5.4 | 20 |
| 41 | Evidence of Powerful Substrate Electric Fields in DNA Photolyase:â€‰ Implications for Thymidine Dimer Repair. Biochemistry, 2001, 40, 15203-15214. | 2.5 | 42 |
| 42 | A Stark Spectroscopic Study of N(3)-Methyl, N(10)-Isobutyl-7,8-Dimethylisoalloxazine in Nonpolar Low-Temperature Glasses:â€‰ Experiment and Comparison with Calculations. Journal of Physical Chemistry A, 2001, 105, 11001-11008. | 2.5 | 26 |
| 43 | Ultrafast Excited State Dynamics of Oxidized Flavins:â€‰ Direct Observations of Quenching by Purines. Journal of Physical Chemistry A, 2000, 104, 6899-6906. | 2.5 | 64 |
| 44 | Electronic Structure Measurements of Oxidized Flavins and Flavin Complexes Using Stark-Effect Spectroscopy. Journal of Physical Chemistry A, 1999, 103, 8976-8984. | 2.5 | 35 |
| 45 | Excited State Energy Transfer Pathways in Photosynthetic Reaction Centers. 2. Heterodimer Special Pair. Journal of Physical Chemistry B, 1997, 101, 3644-3648. | 2.6 | 13 |
| 46 | Two-Photon Excitation of 4'-Hydroxymethyl-4,5',8-Trimethylpsoralen. Photochemistry and Photobiology, 1997, 65, 91-95. | 2.5 | 32 |
| 47 | Excited State Energy Transfer Pathways in Photosynthetic Reaction Centers. 1. Structural Symmetry Effects. The Journal of Physical Chemistry, 1996, 100, 12052-12059. | 2.9 | 87 |
| 48 | Effects of applied electric fields on the quantum yields for the initial electron transfer steps in bacterial photosynthesis II. Dynamic Stark effect. Chemical Physics, 1995, 197, 259-275. | 1.9 | 26 |
| 49 | Oscillations in the Spontaneous Fluorescence from Photosynthetic Reaction Centers. The Journal of Physical Chemistry, 1995, 99, 859-863. | 2.9 | 156 |
| 50 | Effects of applied electric fields on the quantum yields of the initial electron-transfer steps in bacterial photosynthesis. 1. Quantum yield failure. The Journal of Physical Chemistry, 1993, 97, 13165-13171. | 2.9 | 32 |
| 51 | Ion dip spectroscopy of phenolâ€“OD and phenolâ€“OD(D2O)1. Journal of Chemical Physics, 1993, 98, 796-799. | 3.0 | 34 |
| 52 | Femtosecond multiphoton ionization of ammonia clusters. Journal of Chemical Physics, 1992, 97, 9480-9482. | 3.0 | 58 |
| 53 | Cluster ion dip spectroscopy of hydrogen bonded phenol(H2O)n clusters, n=0â€“4. Journal of Chemical Physics, 1991, 94, 7744-7756. | 3.0 | 126 |
| 54 | Ion dip spectroscopy of van der Waals clusters. Journal of Chemical Physics, 1990, 92, 5770-5775. | 3.0 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Resonance-enhanced multiphoton ionization (2+1) of the $$ilde B$$ and $$ilde C'$$ states of ammonia. Applied Physics B: Lasers and Optics, 1983, 32, 35-38. | 2.2 | 18 |