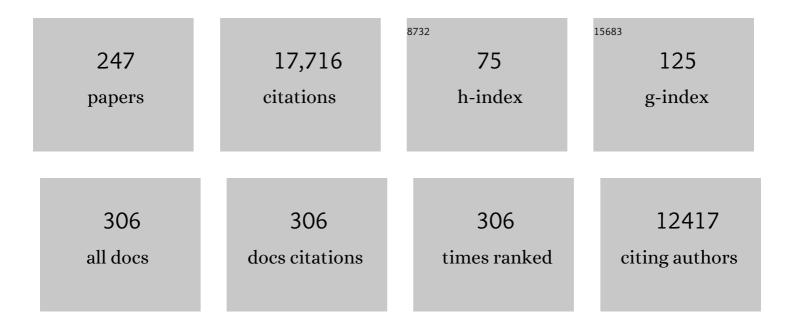
Steven G Boxer

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
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| 1 | Formation and Spreading of Lipid Bilayers on Planar Glass Supports. Journal of Physical Chemistry B, 1999, 103, 2554-2559. | 1.2 | 654 |
| 2 | STARK SPECTROSCOPY: Applications in Chemistry, Biology, and Materials Science. Annual Review of Physical Chemistry, 1997, 48, 213-242. | 4.8 | 574 |
| 3 | Micropatterning Fluid Lipid Bilayers on Solid Supports. Science, 1997, 275, 651-653. | 6.0 | 553 |
| 4 | Extreme electric fields power catalysis in the active site of ketosteroid isomerase. Science, 2014, 346, 1510-1514. | 6.0 | 392 |
| 5 | Measuring Electric Fields and Noncovalent Interactions Using the Vibrational Stark Effect. Accounts of Chemical Research, 2015, 48, 998-1006. | 7.6 | 387 |
| 6 | Micropattern Formation in Supported Lipid Membranes. Accounts of Chemical Research, 2002, 35, 149-157. | 7.6 | 341 |
| 7 | Electric Fields and Enzyme Catalysis. Annual Review of Biochemistry, 2017, 86, 387-415. | 5.0 | 298 |
| 8 | Electric Fields at the Active Site of an Enzyme: Direct Comparison of Experiment with Theory. Science, 2006, 313, 200-204. | 6.0 | 296 |
| 9 | Architecture and Function of Membrane Proteins in Planar Supported Bilayers:Â A Study with Photosynthetic Reaction Centersâ€. Biochemistry, 1996, 35, 14773-14781. | 1.2 | 291 |
| 10 | Advances in Imaging Secondary Ion Mass Spectrometry for Biological Samples. Annual Review of Biophysics, 2009, 38, 53-74. | 4.5 | 281 |
| 11 | Studies of the Electronic Structure of Metallocene-Based Second-Order Nonlinear Optical Dyes. Journal of the American Chemical Society, 1999, 121, 3715-3723. | 6.6 | 268 |
| 12 | Stark Realities. Journal of Physical Chemistry B, 2009, 113, 2972-2983. | 1.2 | 262 |
| 13 | Effects of linker sequences on vesicle fusion mediated by lipid-anchored DNA oligonucleotides. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 979-984. | 3.3 | 260 |
| 14 | Brownian Ratchets: Molecular Separations in Lipid Bilayers Supported on Patterned Arrays. Science, 1999, 285, 1046-1048. | 6.0 | 251 |
| 15 | Choose Your Label Wisely: Water-Soluble Fluorophores Often Interact with Lipid Bilayers. PLoS ONE, 2014, 9, e87649. | 1.1 | 249 |
| 16 | Vibrational Stark Effects of Nitriles I. Methods and Experimental Results. Journal of Physical Chemistry A, 2000, 104, 11853-11863. | 1.1 | 243 |
| 17 | Green Fluorescent Protein Variants as Ratiometric Dual Emission pH Sensors. 1. Structural Characterization and Preliminary Applicationâ€. Biochemistry, 2002, 41, 15477-15488. | 1.2 | 237 |
| 18 | Vibrational Stark Effects Calibrate the Sensitivity of Vibrational Probes for Electric Fields in Proteinsâ€. Biochemistry, 2003, 42, 12050-12055. | 1.2 | 228 |

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| 19 | Arrays of Mobile Tethered Vesicles on Supported Lipid Bilayers. Journal of the American Chemical Society, 2003, 125, 3696-3697. | 6.6 | 225 |
| 20 | Vibrational Stark Spectroscopy in Proteins:  A Probe and Calibration for Electrostatic Fields. Journal of Physical Chemistry B, 1999, 103, 9813-9817. | 1.2 | 209 |
| 21 | Electroabsorption (Stark effect) spectroscopy of mono- and biruthenium charge-transfer complexes: measurements of changes in dipole moments and other electrooptic properties. Journal of the American Chemical Society, 1991, 113, 6880-6890. | 6.6 | 199 |
| 22 | Molecular transport and organization in supported lipid membranes. Current Opinion in Chemical Biology, 2000, 4, 704-709. | 2.8 | 196 |
| 23 | Vesicle Adsorption and Lipid Bilayer Formation on Glass Studied by Atomic Force Microscopy. Langmuir, 2004, 20, 11600-11606. | 1.6 | 188 |
| 24 | Site-Specific Conversion of Cysteine Thiols into Thiocyanate Creates an IR Probe for Electric Fields in Proteins. Journal of the American Chemical Society, 2006, 128, 13356-13357. | 6.6 | 187 |
| 25 | Patterning and Composition Arrays of Supported Lipid Bilayers by Microcontact Printing. Langmuir, 2001, 17, 3400-3405. | 1.6 | 181 |
| 26 | Measuring Electrostatic Fields in Both Hydrogen-Bonding and Non-Hydrogen-Bonding Environments Using Carbonyl Vibrational Probes. Journal of the American Chemical Society, 2013, 135, 11181-11192. | 6.6 | 176 |
| 27 | Patterning Barriers to Lateral Diffusion in Supported Lipid Bilayer Membranes by Blotting and Stamping. Langmuir, 2000, 16, 894-897. | 1.6 | 173 |
| 28 | Patterning Hybrid Surfaces of Proteins and Supported Lipid Bilayers. Langmuir, 2000, 16, 6773-6776. | 1.6 | 167 |
| 29 | Crystal Structure and Photodynamic Behavior of the Blue Emission Variant Y66H/Y145F of Green Fluorescent Proteinâ€. Biochemistry, 1997, 36, 9759-9765. | 1.2 | 162 |
| 30 | Oscillations in the Spontaneous Fluorescence from Photosynthetic Reaction Centers. The Journal of Physical Chemistry, 1995, 99, 859-863. | 2.9 | 156 |
| 31 | Substrateâ^'Membrane Interactions:  Mechanisms for Imposing Patterns on a Fluid Bilayer Membrane. Langmuir, 1998, 14, 3347-3350. | 1.6 | 146 |
| 32 | General Method for Modification of Liposomes for Encoded Assembly on Supported Bilayers. Journal of the American Chemical Society, 2005, 127, 1356-1357. | 6.6 | 146 |
| 33 | Dielectric relaxation in a protein matrix. The Journal of Physical Chemistry, 1992, 96, 5560-5566. | 2.9 | 145 |
| 34 | Vibrational Stark Effects of Nitriles II. Physical Origins of Stark Effects from Experiment and Perturbation Models. Journal of Physical Chemistry A, 2002, 106, 469-477. | 1.1 | 142 |
| 35 | Lipid-anchored DNA mediates vesicle fusion as observed by lipid and content mixing. Biointerphases, 2008, 3, FA17-FA21. | 0.6 | 138 |
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| 37 | A conserved water-mediated hydrogen bond network defines bosutinib's kinase selectivity. Nature Chemical Biology, 2014, 10, 127-132. | 3.9 | 134 |
| 38 | Origins of the Sensitivity of Molecular Vibrations to Electric Fields:Â Carbonyl and Nitrosyl Stretches in Model Compounds and Proteins. Journal of Physical Chemistry B, 2002, 106, 5800-5806. | 1.2 | 133 |
| 39 | Split Green Fluorescent Proteins: Scope, Limitations, and Outlook. Annual Review of Biophysics, 2019, 48, 19-44. | 4.5 | 131 |
| 40 | Excited states, electron-transfer reactions, and intermediates in bacterial photosynthetic reaction centers. The Journal of Physical Chemistry, 1989, 93, 8280-8294. | 2.9 | 129 |
| 41 | Vibrational Stark Effect Spectroscopy. Journal of the American Chemical Society, 1995, 117, 1449-1450. | 6.6 | 128 |
| 42 | Cell adhesion to protein-micropatterned-supported lipid bilayer membranes. Journal of Biomedical Materials Research Part B, 2001, 55, 487-495. | 3.0 | 127 |
| 43 | Antibody evolution constrains conformational heterogeneity by tailoring protein dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13722-13727. | 3.3 | 118 |
| 44 | Rapid isolation of bacterial photosynthetic reaction centers with an engineered poly-histidine tag. Biochimica Et Biophysica Acta - Bioenergetics, 1996, 1276, 171-175. | 0.5 | 115 |
| 45 | Experimental Quantification of Electrostatics in X–H··ÂE Hydrogen Bonds. Journal of the American Chemical Society, 2012, 134, 18986-18997. | 6.6 | 115 |
| 46 | Quantum delocalization of protons in the hydrogen-bond network of an enzyme active site. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18454-18459. | 3.3 | 115 |
| 47 | Protonation, Photobleaching, and Photoactivation of Yellow Fluorescent Protein (YFP 10C):  A Unifying Mechanism. Biochemistry, 2005, 44, 5510-5524. | 1.2 | 113 |
| 48 | Dynamic Stokes shift in green fluorescent protein variants. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20189-20194. | 3.3 | 111 |
| 49 | Electrostatic interactions in wild-type and mutant recombinant human myoglobins. Biochemistry, 1989, 28, 3771-3781. | 1.2 | 108 |
| 50 | A Solvatochromic Model Calibrates Nitriles' Vibrational Frequencies to Electrostatic Fields. Journal of the American Chemical Society, 2012, 134, 10373-10376. | 6.6 | 107 |
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| 52 | Stark effect spectra of Ru(diimine)32+ complexes. Journal of the American Chemical Society, 1989, 111, 1130-1131. | 6.6 | 105 |
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| 55 | Stark Spectroscopy of Donor/Acceptor Substituted Polyenes. Journal of the American Chemical Society, 1997, 119, 3365-3376. | 6.6 | 101 |
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| 62 | A Critical Test of the Electrostatic Contribution to Catalysis with Noncanonical Amino Acids in Ketosteroid Isomerase. Journal of the American Chemical Society, 2016, 138, 11890-11895. | 6.6 | 94 |
| 63 | Electrostatic Fields Near the Active Site of Human Aldose Reductase: 1. New Inhibitors and Vibrational Stark Effect Measurements. Biochemistry, 2008, 47, 1588-1598. | 1.2 | 92 |
| 64 | Nitrile Bonds as Infrared Probes of Electrostatics in Ribonuclease S. Journal of Physical Chemistry B, 2010, 114, 13536-13544. | 1.2 | 90 |
| 65 | 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 |
| 66 | Patterned Supported Lipid Bilayers and Monolayers on Poly(dimethylsiloxane). Langmuir, 2004, 20, 11092-11099. | 1.6 | 87 |
| 67 | Quantitative, directional measurement of electric field heterogeneity in the active site of ketosteroid isomerase. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E299-308. | 3.3 | 87 |
| 68 | Green Fluorescent Protein Variants as Ratiometric Dual Emission pH Sensors. 2. Excited-State Dynamicsâ€. Biochemistry, 2002, 41, 15489-15494. | 1.2 | 86 |
| 69 | Electronic Structure of the Chromophore in Green Fluorescent Protein (GFP). Journal of the American Chemical Society, 1998, 120, 9370-9371. | 6.6 | 83 |
| 70 | Kinetics of DNA-mediated docking reactions between vesicles tethered to supported lipid bilayers. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18913-18918. | 3.3 | 83 |
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| 75 | Chemical Synthesis and Self-Assembly of a Ladderane Phospholipid. Journal of the American Chemical Society, 2016, 138, 15845-15848. | 6.6 | 78 |
| 76 | Electrostatic control of photoisomerization pathways in proteins. Science, 2020, 367, 76-79. | 6.0 | 78 |
| 77 | Mg Coordination by Amino Acid Side Chains Is Not Required for Assembly and Function of the Special Pair in Bacterial Photosynthetic Reaction Centersâ€. Biochemistry, 1996, 35, 2421-2428. | 1.2 | 76 |
| 78 | Ultrafast Excited-State Dynamics in the Green Fluorescent Protein Variant S65T/H148D. 1. Mutagenesis and Structural Studies [,] . Biochemistry, 2007, 46, 12005-12013. | 1.2 | 76 |
| 79 | Characterization of the Light-Harvesting Antennas of Photosynthetic Purple Bacteria by Stark Spectroscopy. 1. LH1 Antenna Complex and the B820 Subunit from Rhodospirillum rubrum. Journal of Physical Chemistry B, 1997, 101, 7284-7292. | 1.2 | 75 |
| 80 | TransEffects in Nitric Oxide Binding to Myoglobin Cavity Mutant H93Gâ€. Biochemistry, 1996, 35, 4939-4944. | 1.2 | 74 |
| 81 | DNA-tethered membranes formed by giant vesicle rupture. Journal of Structural Biology, 2009, 168, 190-199. | 1.3 | 74 |
| 82 | Effective Polarity of Frozen Solvent Glasses in the Vicinity of Dipolar Solutes. Journal of the American Chemical Society, 1998, 120, 3988-3992. | 6.6 | 70 |
| 83 | Ultrafast Excited-State Dynamics in the Green Fluorescent Protein Variant S65T/H148D. 2. Unusual Photophysical Properties. Biochemistry, 2007, 46, 12014-12025. | 1.2 | 70 |
| 84 | Reversible photochemical holeburning in Rhodopseudomonas viridis reaction centers. FEBS Letters, 1986, 200, 237-241. | 1.3 | 69 |
| 85 | Probing the Structure of Supported Membranes and Tethered Oligonucleotides by Fluorescence Interference Contrast Microscopy. Langmuir, 2005, 21, 4976-4983. | 1.6 | 69 |
| 86 | Colocalization of the Ganglioside GM1 and Cholesterol Detected by Secondary Ion Mass Spectrometry. Journal of the American Chemical Society, 2013, 135, 5620-5630. | 6.6 | 69 |
| 87 | Vibrational Stark Spectroscopy of NO Bound to Heme:Â Effects of Protein Electrostatic Fields on the NO Stretch Frequency. Journal of the American Chemical Society, 2000, 122, 12297-12303. | 6.6 | 67 |
| 88 | Spatially Selective Manipulation of Supported Lipid Bilayers by Laminar Flow:Â Steps Toward Biomembrane Microfluidicsâ€. Langmuir, 2003, 19, 1624-1631. | 1.6 | 67 |
| 89 | Individual Vesicle Fusion Events Mediated by Lipid-Anchored DNA. Biophysical Journal, 2013, 105, 409-419. | 0.2 | 67 |
| 90 | Vibrational Stark Effects of Carbonyl Probes Applied to Reinterpret IR and Raman Data for Enzyme Inhibitors in Terms of Electric Fields at the Active Site. Journal of Physical Chemistry B, 2016, 120, 9672-9684. | 1.2 | 67 |

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| 92 | Distance dependence of electron-transfer reactions in organized systems: the role of superexchange and non-Condon effects in photosynthetic reaction centers. The Journal of Physical Chemistry, 1993, 97, 3040-3053. | 2.9 | 64 |
| 93 | Controlling Two-Dimensional Tethered Vesicle Motion Using an Electric Field:Â Interplay of Electrophoresis and Electro-Osmosis. Langmuir, 2006, 22, 2384-2391. | 1.6 | 64 |
| 94 | Excited-State Electronic Asymmetry of the Special Pair in Photosynthetic Reaction Center Mutants:Â Absorption and Stark Spectroscopyâ€. Biochemistry, 1999, 38, 11949-11960. | 1.2 | 61 |
| 95 | Membrane-tethered mucin-like polypeptides sterically inhibit binding and slow fusion kinetics of influenza A virus. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12643-12650. | 3.3 | 60 |
| 96 | Short Hydrogen Bonds and Proton Delocalization in Green Fluorescent Protein (GFP). ACS Central Science, 2015, 1, 148-156. | 5.3 | 59 |
| 97 | Ladderane phospholipids form a densely packed membrane with normal hydrazine and anomalously low proton/hydroxide permeability. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9098-9103. | 3.3 | 58 |
| 98 | Vibrational Stark Effect Probes for Nucleic Acids. Journal of Physical Chemistry B, 2007, 111, 11611-11613. | 1.2 | 57 |
| 99 | Vesicle Fusion Observed by Content Transfer across a Tethered Lipid Bilayer. Biophysical Journal, 2011, 101, L37-L39. | 0.2 | 55 |
| 100 | Unified Model for Photophysical and Electro-Optical Properties of Green Fluorescent Proteins. Journal of the American Chemical Society, 2019, 141, 15250-15265. | 6.6 | 55 |
| 101 | Effects of Nuclear Spin Polarization on Reaction Dynamics in Photosynthetic Bacterial Reaction Centers. Biophysical Journal, 1987, 51, 937-946. | 0.2 | 54 |
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| 103 | Dynamic Reorganization and Correlation among Lipid Raft Components. Journal of the American Chemical Society, 2016, 138, 9996-10001. | 6.6 | 54 |
| 104 | Structural Evidence of Photoisomerization Pathways in Fluorescent Proteins. Journal of the American Chemical Society, 2019, 141, 15504-15508. | 6.6 | 54 |
| 105 | Assignment of the Heme Axial Ligand(s) for the Ferric Myoglobin (H93G) and Heme Oxygenase (H25A) Cavity Mutants as Oxygen Donors Using Magnetic Circular Dichroism. Biochemistry, 1999, 38, 7601-7608. | 1.2 | 53 |
| 106 | Ground-State Proton Transfer Kinetics in Green Fluorescent Protein. Biochemistry, 2014, 53, 5947-5957. | 1.2 | 51 |
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| 108 | Supported Membrane Composition Analysis by Secondary Ion Mass Spectrometry with High Lateral Resolution. Biophysical Journal, 2005, 88, 2965-2975. | 0.2 | 49 |

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| 109 | Deconstructing Green Fluorescent Protein. Journal of the American Chemical Society, 2008, 130, 9664-9665. | 6.6 | 49 |
| 110 | Vibrational Dynamics of Carbon Monoxide at the Active Sites of Mutant Heme Proteinsâ€. The Journal of Physical Chemistry, 1996, 100, 12100-12107. | 2.9 | 48 |
| 111 | Dynamics of protein relaxation in site-specific mutants of human myoglobin. Biochemistry, 1993, 32, 10116-10124. | 1.2 | 47 |
| 112 | On the Origin of Heme Absorption Band Shifts and Associated Protein Structural Relaxation in Myoglobin following Flash Photolysis. Journal of Biological Chemistry, 1997, 272, 9655-9660. | 1.6 | 46 |
| 113 | A liquid nitrogen immersion cryostat for optical measurements. Review of Scientific Instruments, 2000, 71, 3567-3569. | 0.6 | 46 |
| 114 | The H93G Myoglobin Cavity Mutant as a Versatile Template for Modeling Heme Proteins:Â Ferrous, Ferric, and Ferryl Mixed-Ligand Complexes with Imidazole in the Cavity. Inorganic Chemistry, 2000, 39, 6061-6066. | 1.9 | 45 |
| 115 | Direct measurement of the protein response to an electrostatic perturbation that mimics the catalytic cycle in ketosteroid isomerase. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16612-16617. | 3.3 | 45 |
| 116 | A Preorganized Electric Field Leads to Minimal Geometrical Reorientation in the Catalytic Reaction of Ketosteroid Isomerase. Journal of the American Chemical Society, 2020, 142, 9993-9998. | 6.6 | 45 |
| 117 | 1H NMR Characterization of Myoglobins Where Exogenous Ligands Replace the Proximal Histidine. Biochemistry, 1995, 34, 2122-2129. | 1.2 | 44 |
| 118 | Probing Excited-State Electron Transfer by Resonance Stark Spectroscopy. 1. Experimental Results for Photosynthetic Reaction Centers. Journal of Physical Chemistry B, 1998, 102, 9139-9147. | 1.2 | 44 |
| 119 | Synthetic Control of Green Fluorescent Protein. Journal of the American Chemical Society, 2009, 131, 15988-15989. | 6.6 | 43 |
| 120 | pH Dependence of Zika Membrane Fusion Kinetics Reveals an Off-Pathway State. ACS Central Science, 2018, 4, 1503-1510. | 5.3 | 43 |
| 121 | Modulation of Protein Function by Exogenous Ligands in Protein Cavities:Â CO Binding to a Myoglobin Cavity Mutant Containing Unnatural Proximal Ligandsâ€. Biochemistry, 1996, 35, 3925-3932. | 1.2 | 42 |
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| 123 | The Mechanism of Triplet Energy Transfer from the Special Pair to the Carotenoid in Bacterial Photosynthetic Reaction Centers. Journal of Physical Chemistry B, 1999, 103, 8786-8789. | 1.2 | 40 |
| 124 | Charge Delocalization in the Special-Pair Radical Cation of Mutant Reaction Centers ofRhodobactersphaeroidesfrom Stark Spectra and Nonadiabatic Spectral Simulations. Journal of Physical Chemistry B, 2006, 110, 18688-18702. | 1.2 | 40 |
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| 128 | Higher-Order Stark Spectroscopy: Polarizability of Photosynthetic Pigments. The Journal of Physical Chemistry, 1995, 99, 496-500. | 2.9 | 38 |
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| 133 | Frictional Drag and Electrical Manipulation of Recombinant Proteins in Polymer-Supported Membranes. Langmuir, 2007, 23, 5638-5644. | 1.6 | 36 |
| 134 | Quantitative dissection of hydrogen bond-mediated proton transfer in the ketosteroid isomerase active site. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2552-61. | 3.3 | 36 |
| 135 | Solvent-Independent Anharmonicity for Carbonyl Oscillators. Journal of Physical Chemistry B, 2017, 121, 2331-2338. | 1.2 | 36 |
| 136 | FTIR and Resonance Raman Studies of Nitric Oxide Binding to H93G Cavity Mutants of Myoglobinâ€. Biochemistry, 2001, 40, 15047-15056. | 1.2 | 35 |
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| 139 | Probing Excited-State Electron Transfer by Resonance Stark Spectroscopy. 2. Theory and Application. Journal of Physical Chemistry B, 1998, 102, 9148-9160. | 1.2 | 34 |
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| 145 | Light-Activated Reassembly of Split Green Fluorescent Protein. Journal of the American Chemical Society, 2011, 133, 4046-4052. | 6.6 | 33 |
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| 150 | Excited State Energy Transfer Pathways in Photosynthetic Reaction Centers. 4. Asymmetric Energy Transfer in the Heterodimer Mutant. Journal of Physical Chemistry B, 2001, 105, 1856-1862. | 1.2 | 31 |
| 151 | Electrostatic Fields near the Active Site of Human Aldose Reductase: 2. New Inhibitors and Complications Caused by Hydrogen Bonds. Biochemistry, 2011, 50, 8311-8322. | 1.2 | 31 |
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