

Steven G Boxer

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

206
papers

15,280
citations

72
h-index

117
g-index

306
ext. papers

16,545
ext. citations

7.3
avg, IF

6.93
L-index

#	Paper	IF	Citations
206	The Interplay of Electrostatics and Chemical Positioning in the Evolution of Antibiotic Resistance in TEM β -Lactamases.. <i>ACS Central Science</i> , 2021 , 7, 1996-2008	16.8	4
205	Testing the Limitations of MD-Based Local Electric Fields Using the Vibrational Stark Effect in Solution: Penicillin G as a Test Case. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 4415-4427	3.4	3
204	Enantioselective Total Synthesis of the Archaeal Lipid Parallel GDGT-0 (Isocaldarchaeol)**. <i>Angewandte Chemie</i> , 2021 , 133, 17632-17637	3.6	
203	Enantioselective Total Synthesis of the Archaeal Lipid Parallel GDGT-0 (Isocaldarchaeol)*. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 17491-17496	16.4	1
202	Single-virus content-mixing assay reveals cholesterol-enhanced influenza membrane fusion efficiency. <i>Biophysical Journal</i> , 2021 , 120, 4832-4841	2.9	3
201	Photosynthetic reaction center variants made via genetic code expansion show Tyr at M210 tunes the initial electron transfer mechanism.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
200	Target Membrane Cholesterol Modulates Single Influenza Virus Membrane Fusion Efficiency but Not Rate. <i>Biophysical Journal</i> , 2020 , 118, 2426-2433	2.9	15
199	A Preorganized Electric Field Leads to Minimal Geometrical Reorientation in the Catalytic Reaction of Ketosteroid Isomerase. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9993-9998	16.4	22
198	Mechanism of Color and Photoacidity Tuning for the Protonated Green Fluorescent Protein Chromophore. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11032-11041	16.4	10
197	Membrane-tethered mucin-like polypeptides sterically inhibit binding and slow fusion kinetics of influenza A virus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 12643-12650	11.5	26
196	Biosynthetic Incorporation of Site-Specific Isotopes in β -Lactam Antibiotics Enables Biophysical Studies. <i>ACS Chemical Biology</i> , 2020 , 15, 1148-1153	4.9	2
195	Structural and spectroscopic characterization of photoactive yellow protein and photoswitchable fluorescent protein constructs containing heavy atoms. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020 , 401, 112738-112738	4.7	
194	Electrostatic control of photoisomerization pathways in proteins. <i>Science</i> , 2020 , 367, 76-79	33.3	42
193	Unusual Spectroscopic and Electric Field Sensitivity of Chromophores with Short Hydrogen Bonds: GFP and PYP as Model Systems. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 9513-9525	3.4	3
192	Halogenation-Dependent Effects of the Chlorosulfolipids of on Lipid Bilayers. <i>ACS Chemical Biology</i> , 2020 , 15, 2986-2995	4.9	0
191	Unified Model for Photophysical and Electro-Optical Properties of Green Fluorescent Proteins. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15250-15265	16.4	25
190	Structural Evidence of Photoisomerization Pathways in Fluorescent Proteins. <i>Journal of the American Chemical Society</i> , 2019 , 141, 15504-15508	16.4	28

189	Local and Global Electric Field Asymmetry in Photosynthetic Reaction Centers. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 1527-1536	3.4	13
188	Perturbation of Short Hydrogen Bonds in Photoactive Yellow Protein via Noncanonical Amino Acid Incorporation. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 4844-4849	3.4	7
187	Detecting and Controlling Dye Effects in Single-Virus Fusion Experiments. <i>Biophysical Journal</i> , 2019 , 117, 445-452	2.9	12
186	Split Green Fluorescent Proteins: Scope, Limitations, and Outlook. <i>Annual Review of Biophysics</i> , 2019 , 48, 19-44	21.1	61
185	Ladderane phospholipids form a densely packed membrane with normal hydrazine and anomalously low proton/hydroxide permeability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 9098-9103	11.5	33
184	Structural Insight into the Photochemistry of Split Green Fluorescent Proteins: A Unique Role for a His-Tag. <i>Journal of the American Chemical Society</i> , 2018 , 140, 375-381	16.4	10
183	pH Dependence of Zika Membrane Fusion Kinetics Reveals an Off-Pathway State. <i>ACS Central Science</i> , 2018 , 4, 1503-1510	16.8	19
182	Genetic Code Expansion in <i>Rhodobacter sphaeroides</i> to Incorporate Noncanonical Amino Acids into Photosynthetic Reaction Centers. <i>ACS Synthetic Biology</i> , 2018 , 7, 1618-1628	5.7	6
181	Solvent-Independent Anharmonicity for Carbonyl Oscillators. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 2331-2338	3.4	27
180	Mechanism and bottlenecks in strand photodissociation of split green fluorescent proteins (GFPs). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2146-E2155	11.5	10
179	Electric Fields and Enzyme Catalysis. <i>Annual Review of Biochemistry</i> , 2017 , 86, 387-415	29.1	190
178	Comment on "Transient Conformational Changes of Sensory Rhodopsin II Investigated by Vibrational Stark Effect Probes". <i>Journal of Physical Chemistry B</i> , 2017 , 121, 7395-7396	3.4	1
177	Vesicle Fusion Mediated by Solanesol-Anchored DNA. <i>Biophysical Journal</i> , 2017 , 113, 1260-1268	2.9	23
176	A Critical Test of the Electrostatic Contribution to Catalysis with Noncanonical Amino Acids in Ketosteroid Isomerase. <i>Journal of the American Chemical Society</i> , 2016 , 138, 11890-5	16.4	62
175	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. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 9672-84	2.4	44
174	Chemical Synthesis and Self-Assembly of a Ladderane Phospholipid. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15845-15848	16.4	53
173	Dynamic Reorganization and Correlation among Lipid Raft Components. <i>Journal of the American Chemical Society</i> , 2016 , 138, 9996-10001	16.4	39
172	Disentangling Viral Membrane Fusion from Receptor Binding Using Synthetic DNA-Lipid Conjugates. <i>Biophysical Journal</i> , 2016 , 111, 123-31	2.9	23

171	Atomic Recombination in Dynamic Secondary Ion Mass Spectrometry Probes Distance in Lipid Assemblies: A Nanometer Chemical Ruler. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16737-16744	16.4	10
170	Dissecting Proton Delocalization and the Electrostatic Contribution to Catalysis in an Enzyme's Hydrogen Bond Network with Unnatural Amino Acids. <i>Biophysical Journal</i> , 2016 , 110, 546a-547a	2.9	0
169	Short Hydrogen Bonds and Proton Delocalization in Green Fluorescent Protein (GFP). <i>ACS Central Science</i> , 2015 , 1, 148-56	16.8	38
168	Measuring electric fields and noncovalent interactions using the vibrational stark effect. <i>Accounts of Chemical Research</i> , 2015 , 48, 998-1006	24.3	280
167	BIOPHYSICS. Response to Comments on "Extreme electric fields power catalysis in the active site of ketosteroid isomerase". <i>Science</i> , 2015 , 349, 936	33.3	10
166	Dissecting Proton Delocalization in an Enzyme's Hydrogen Bond Network with Unnatural Amino Acids. <i>Biochemistry</i> , 2015 , 54, 7110-9	3.2	11
165	A conserved water-mediated hydrogen bond network defines bosutinib's kinase selectivity. <i>Nature Chemical Biology</i> , 2014 , 10, 127-32	11.7	108
164	Ground-state proton transfer kinetics in green fluorescent protein. <i>Biochemistry</i> , 2014 , 53, 5947-57	3.2	35
163	Putative hydrogen bond to tyrosine M208 in photosynthetic reaction centers from <i>Rhodobacter capsulatus</i> significantly slows primary charge separation. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 6721-32	2.4	10
162	Quantum delocalization of protons in the hydrogen-bond network of an enzyme active site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 18454-9	11.5	87
161	Extreme electric fields power catalysis in the active site of ketosteroid isomerase. <i>Science</i> , 2014 , 346, 1510-4	33.3	285
160	Choose your label wisely: water-soluble fluorophores often interact with lipid bilayers. <i>PLoS ONE</i> , 2014 , 9, e87649	3.7	173
159	Measuring electrostatic fields in both hydrogen-bonding and non-hydrogen-bonding environments using carbonyl vibrational probes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11181-92	16.4	140
158	GFP variants with alternative β -strands and their application as light-driven protease sensors: a tale of two tails. <i>Journal of the American Chemical Society</i> , 2013 , 135, 10226-9	16.4	14
157	Individual vesicle fusion events mediated by lipid-anchored DNA. <i>Biophysical Journal</i> , 2013 , 105, 409-19	2.9	52
156	Calculations of the electric fields in liquid solutions. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 16236-48	3.4	73
155	Formation and analysis of topographical domains between lipid membranes tethered by DNA hybrids of different lengths. <i>Faraday Discussions</i> , 2013 , 161, 333-45; discussion 419-59	3.6	20
154	DNA-Based Patterning of Tethered Membrane Patches. <i>Biophysical Journal</i> , 2013 , 104, 33a	2.9	

153	Colocalization of the ganglioside G(M1) and cholesterol detected by secondary ion mass spectrometry. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5620-30	16.4	60
152	Thermodynamic framework for identifying free energy inventories of enzyme catalytic cycles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 12271-6	11.5	11
151	Quantitative dissection of hydrogen bond-mediated proton transfer in the ketosteroid isomerase active site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, E2552-61	11.5	30
150	Evaluation of the energetics of the concerted acid-base mechanism in enzymatic catalysis: the case of ketosteroid isomerase. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 690-7	3.4	12
149	Experimental quantification of electrostatics in X-H⋯hydrogen bonds. <i>Journal of the American Chemical Society</i> , 2012 , 134, 18986-97	16.4	94
148	Solvent-induced infrared frequency shifts in aromatic nitriles are quantitatively described by the vibrational Stark effect. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 10470-6	3.4	83
147	Site-specific measurement of water dynamics in the substrate pocket of ketosteroid isomerase using time-resolved vibrational spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 11414-21	3.4	21
146	Photochemistry of a bacterial photosynthetic reaction center missing the initial bacteriochlorophyll electron acceptor. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 9971-82	3.4	15
145	A solvatochromic model calibrates nitriles vibrational frequencies to electrostatic fields. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10373-6	16.4	90
144	Quantitative, directional measurement of electric field heterogeneity in the active site of ketosteroid isomerase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E299-308	11.5	77
143	Vesicle fusion observed by content transfer across a tethered lipid bilayer. <i>Biophysical Journal</i> , 2011 , 101, L37-9	2.9	43
142	Thermodynamics, kinetics, and photochemistry of β -strand association and dissociation in a split-GFP system. <i>Journal of the American Chemical Society</i> , 2011 , 133, 18078-81	16.4	26
141	Direct measurements of electric fields in weak OH⋯hydrogen bonds. <i>Journal of the American Chemical Society</i> , 2011 , 133, 17414-9	16.4	84
140	Electrostatic fields near the active site of human aldose reductase: 2. New inhibitors and complications caused by hydrogen bonds. <i>Biochemistry</i> , 2011 , 50, 8311-22	3.2	29
139	Stability of DNA-tethered lipid membranes with mobile tethers. <i>Langmuir</i> , 2011 , 27, 5492-7	4	21
138	Phosphate vibrations probe local electric fields and hydration in biomolecules. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13236-9	16.4	40
137	Light-activated reassembly of split green fluorescent protein. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4046-52	16.4	26
136	Direct measurement of the protein response to an electrostatic perturbation that mimics the catalytic cycle in ketosteroid isomerase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 16612-7	11.5	43

135	Decomposition of vibrational shifts of nitriles into electrostatic and hydrogen-bonding effects. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12811-3	16.4	121
134	Nitrile bonds as infrared probes of electrostatics in ribonuclease S. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 13536-44	3.4	81
133	Effects of linker sequences on vesicle fusion mediated by lipid-anchored DNA oligonucleotides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 979-84	11.5	226
132	Trapping the P+B(L)- initial intermediate state of charge separation in photosynthetic reaction centers from <i>Rhodobacter capsulatus</i> . <i>Biochemistry</i> , 2009 , 48, 2571-3	3.2	15
131	Stark realities. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 2972-83	3.4	237
130	DNA-tethered membranes formed by giant vesicle rupture. <i>Journal of Structural Biology</i> , 2009 , 168, 190-9	3.4	64
129	Synthetic control of green fluorescent protein. <i>Journal of the American Chemical Society</i> , 2009 , 131, 15988-9	16.4	36
128	Advances in imaging secondary ion mass spectrometry for biological samples. <i>Annual Review of Biophysics</i> , 2009 , 38, 53-74	21.1	246
127	Lipid-anchored DNA mediates vesicle fusion as observed by lipid and content mixing. <i>Biointerphases</i> , 2008 , 3, FA17	1.8	117
126	Electrostatic fields near the active site of human aldose reductase: 1. New inhibitors and vibrational stark effect measurements. <i>Biochemistry</i> , 2008 , 47, 1588-98	3.2	89
125	Charge transfer in photoacids observed by stark spectroscopy. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 10244-9	2.8	28
124	Temperature dependence of electron transfer to the M-side bacteriopheophytin in <i>rhodobacter capsulatus</i> reaction centers. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 5487-99	3.4	28
123	Deconstructing green fluorescent protein. <i>Journal of the American Chemical Society</i> , 2008 , 130, 9664-5	16.4	45
122	Stark spectroscopy of mixed-valence systems. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 33-45	3	13
121	Ultrafast excited-state dynamics in the green fluorescent protein variant S65T/H148D. 2. Unusual photophysical properties. <i>Biochemistry</i> , 2007 , 46, 12014-25	3.2	64
120	Vibrational stark effect probes for nucleic acids. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11611-3	3.4	53
119	Frictional drag and electrical manipulation of recombinant proteins in polymer-supported membranes. <i>Langmuir</i> , 2007 , 23, 5638-44	4	35
118	Anomalous negative fluorescence anisotropy in yellow fluorescent protein (YFP 10C): quantitative analysis of FRET in YFP dimers. <i>Biochemistry</i> , 2007 , 46, 14403-17	3.2	36

117	Measurement of solvation responses at multiple sites in a globular protein. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 8269-76	3.4	95
116	Ultrafast excited-state dynamics in the green fluorescent protein variant S65T/H148D. 1. Mutagenesis and structural studies. <i>Biochemistry</i> , 2007 , 46, 12005-13	3.2	70
115	Kinetics of DNA-mediated docking reactions between vesicles tethered to supported lipid bilayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 18913-8	11.5	76
114	Dynamic Stokes shift in green fluorescent protein variants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 20189-94	11.5	96
113	Antibody evolution constrains conformational heterogeneity by tailoring protein dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 13722-7	11.5	101
112	Electric fields at the active site of an enzyme: direct comparison of experiment with theory. <i>Science</i> , 2006 , 313, 200-4	33.3	266
111	Site-specific conversion of cysteine thiols into thiocyanate creates an IR probe for electric fields in proteins. <i>Journal of the American Chemical Society</i> , 2006 , 128, 13356-7	16.4	169
110	High yield of M-side electron transfer in mutants of <i>Rhodobacter capsulatus</i> reaction centers lacking the L-side bacteriopheophytin. <i>Biochemistry</i> , 2006 , 45, 3845-51	3.2	51
109	Charge delocalization in the special-pair radical cation of mutant reaction centers of <i>Rhodobacter sphaeroides</i> from Stark spectra and nonadiabatic spectral simulations. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 18688-702	3.4	35
108	Controlling two-dimensional tethered vesicle motion using an electric field: interplay of electrophoresis and electro-osmosis. <i>Langmuir</i> , 2006 , 22, 2384-91	4	59
107	Quantitative analysis of supported membrane composition using the NanoSIMS. <i>Applied Surface Science</i> , 2006 , 252, 6950-6956	6.7	30
106	General method for modification of liposomes for encoded assembly on supported bilayers. <i>Journal of the American Chemical Society</i> , 2005 , 127, 1356-7	16.4	132
105	Protonation, photobleaching, and photoactivation of yellow fluorescent protein (YFP 10C): a unifying mechanism. <i>Biochemistry</i> , 2005 , 44, 5510-24	3.2	103
104	Probing the structure of supported membranes and tethered oligonucleotides by fluorescence interference contrast microscopy. <i>Langmuir</i> , 2005 , 21, 4976-83	4	59
103	Supported membrane composition analysis by secondary ion mass spectrometry with high lateral resolution. <i>Biophysical Journal</i> , 2005 , 88, 2965-75	2.9	45
102	Variable incidence angle fluorescence interference contrast microscopy for z-imaging single objects. <i>Biophysical Journal</i> , 2005 , 89, 2759-69	2.9	27
101	Green fluorescent protein variants as ratiometric dual emission pH sensors. 3. Temperature dependence of proton transfer. <i>Biochemistry</i> , 2005 , 44, 8701-11	3.2	32
100	A Theory of Intervalence Band Stark Effects. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 1764-1778	2.8	34

99	Patterned supported lipid bilayers and monolayers on poly(dimethylsiloxane). <i>Langmuir</i> , 2004 , 20, 11092-9	83
98	Probing Excited-State Electron Transfer by Resonance Stark Spectroscopy: 4. Mutations near BL in Photosynthetic Reaction Centers Perturb Multiple Factors that Affect - <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13523-13535	3.4 14
97	Probing Excited-State Electron Transfer by Resonance Stark Spectroscopy: 3. Theoretical Foundations and Practical Applications. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13513-13522	3.4 11
96	Vesicle adsorption and lipid bilayer formation on glass studied by atomic force microscopy. <i>Langmuir</i> , 2004 , 20, 11600-6	4 171
95	Excited-state energy transfer pathways in photosynthetic reaction centers: 5. Oxidized and triplet excited special pairs as energy acceptors. <i>Chemical Physics</i> , 2003 , 294, 359-369	2.3 7
94	Arrays of mobile tethered vesicles on supported lipid bilayers. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3696-7	16.4 213
93	Energetics of Primary Charge Separation in Bacterial Photosynthetic Reaction Center Mutants: Triplet Decay in Large Magnetic Fields <i>Journal of Physical Chemistry A</i> , 2003 , 107, 3341-3350	2.8 13
92	Vibrational Stark effects calibrate the sensitivity of vibrational probes for electric fields in proteins. <i>Biochemistry</i> , 2003 , 42, 12050-5	3.2 218
91	Intervalence Band Stark Effect of the Special Pair Radical Cation in Bacterial Photosynthetic Reaction Centers. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 11230-11239	3.4 21
90	Spatially Selective Manipulation of Supported Lipid Bilayers by Laminar Flow: <i>Steps Toward Biomembrane Microfluidics</i> <i>Langmuir</i> , 2003 , 19, 1624-1631	4 58
89	Proximal ligand motions in H93G myoglobin. <i>FEBS Journal</i> , 2002 , 269, 4879-86	12
88	Vibrational Stark Effects of Nitriles II. Physical Origins of Stark Effects from Experiment and Perturbation Models. <i>Journal of Physical Chemistry A</i> , 2002 , 106, 469-477	2.8 129
87	Micropattern formation in supported lipid membranes. <i>Accounts of Chemical Research</i> , 2002 , 35, 149-57	24.3 320
86	Green fluorescent protein variants as ratiometric dual emission pH sensors. 1. Structural characterization and preliminary application. <i>Biochemistry</i> , 2002 , 41, 15477-88	3.2 209
85	Green fluorescent protein variants as ratiometric dual emission pH sensors. 2. Excited-state dynamics. <i>Biochemistry</i> , 2002 , 41, 15489-94	3.2 80
84	Origins of the Sensitivity of Molecular Vibrations to Electric Fields: Carbonyl and Nitrosyl Stretches in Model Compounds and Proteins. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 5800-5806	3.4 126
83	Cell adhesion to protein-micropatterned-supported lipid bilayer membranes. <i>Journal of Biomedical Materials Research Part B</i> , 2001 , 55, 487-95	116
82	Analysis of Noise for Rapid-Scan and Step-Scan Methods of FT-IR Difference Spectroscopy. <i>Applied Spectroscopy</i> , 2001 , 55, 1161-1165	3.1 9

81	Polymer-supported lipid bilayers on benzophenone-modified substrates. <i>Biomacromolecules</i> , 2001 , 2, 70-9	6.9	95
80	FTIR and resonance Raman studies of nitric oxide binding to H93G cavity mutants of myoglobin. <i>Biochemistry</i> , 2001 , 40, 15047-56	3.2	33
79	19F NMR of trifluoroacetyl-labeled cysteine mutants of myoglobin: structural probes of nitric oxide bound to the H93G cavity mutant. <i>Biochemistry</i> , 2001 , 40, 8588-96	3.2	12
78	Electrophoresis of DNA Adsorbed to a Cationic Supported Bilayer. <i>Langmuir</i> , 2001 , 17, 7396-7401	4	38
77	Patterning and Composition Arrays of Supported Lipid Bilayers by Microcontact Printing. <i>Langmuir</i> , 2001 , 17, 3400-3405	4	169
76	Electrostatic and conformational effects on the electronic structures of distortional isomers of a mixed-valence binuclear Cu complex. <i>Inorganic Chemistry</i> , 2001 , 40, 6375-82	5.1	15
75	Excited State Energy Transfer Pathways in Photosynthetic Reaction Centers. 4. Asymmetric Energy Transfer in the Heterodimer Mutant. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 1856-1862	3.4	30
74	A photolysis-triggered heme ligand switch in H93G myoglobin. <i>Biochemistry</i> , 2001 , 40, 5299-305	3.2	20
73	Photophysics of DsRed, a Red Fluorescent Protein, from the Ensemble to the Single-Molecule Level. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 5048-5054	3.4	91
72	Molecular transport and organization in supported lipid membranes. <i>Current Opinion in Chemical Biology</i> , 2000 , 4, 704-9	9.7	193
71	A liquid nitrogen immersion cryostat for optical measurements. <i>Review of Scientific Instruments</i> , 2000 , 71, 3567-3569	1.7	38
70	The H93G myoglobin cavity mutant as a versatile template for modeling heme proteins: ferrous, ferric, and ferryl mixed-ligand complexes with imidazole in the cavity. <i>Inorganic Chemistry</i> , 2000 , 39, 6061-6	5.1	44
69	Vibrational Stark Effects of Nitriles I. Methods and Experimental Results. <i>Journal of Physical Chemistry A</i> , 2000 , 104, 11853-11863	2.8	217
68	Electric Field Effects in Multicomponent Fluid Lipid Membranes. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 119-124	3.4	18
67	Patterning Barriers to Lateral Diffusion in Supported Lipid Bilayer Membranes by Blotting and Stamping. <i>Langmuir</i> , 2000 , 16, 894-897	4	164
66	Patterning Hybrid Surfaces of Proteins and Supported Lipid Bilayers. <i>Langmuir</i> , 2000 , 16, 6773-6776	4	153
65	Lateral Reorganization of Fluid Lipid Membranes in Response to the Electric Field Produced by a Buried Charge. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 11409-11415	3.4	23
64	Resonance Raman Studies of Heme Axial Ligation in H93G Myoglobin. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 10359-10367	3.4	26

63	Vibrational Stark Spectroscopy of NO Bound to Heme: Effects of Protein Electrostatic Fields on the NO Stretch Frequency. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12297-12303	16.4	63
62	Excited State Energy Transfer Pathways in Photosynthetic Reaction Centers. 3. Ultrafast Emission from the Monomeric Bacteriochlorophylls. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8895-8902	3.4	30
61	Formation of Supported Lipid Bilayer Composition Arrays by Controlled Mixing and Surface Capture. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12901-12902	16.4	75
60	Studies of the Electronic Structure of Metallocene-Based Second-Order Nonlinear Optical Dyes. <i>Journal of the American Chemical Society</i> , 1999 , 121, 3715-3723	16.4	245
59	Brownian ratchets: molecular separations in lipid bilayers supported on patterned arrays. <i>Science</i> , 1999 , 285, 1046-8	33.3	232
58	Stark-Effect Spectroscopy of the Heme Charge-Transfer Bands of Deoxymyoglobin. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 3070-3072	3.4	10
57	Formation and Spreading of Lipid Bilayers on Planar Glass Supports. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 2554-2559	3.4	605
56	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. <i>Biochemistry</i> , 1999 , 38, 7601-8 ²	3.2	52
55	Excited-state electronic asymmetry of the special pair in photosynthetic reaction center mutants: absorption and Stark spectroscopy. <i>Biochemistry</i> , 1999 , 38, 11949-60	3.2	56
54	The Role of the Distal and Proximal Protein Environments in Controlling the Ferric Spin State and in Stabilizing Thiolate Ligation in Heme Systems: Thiolate Adducts of the Myoglobin H93G Cavity Mutant. <i>Journal of the American Chemical Society</i> , 1999 , 121, 12088-12093	16.4	46
53	Writing and Erasing Barriers to Lateral Mobility into Fluid Phospholipid Bilayers. <i>Langmuir</i> , 1999 , 15, 3892-3896 ¹⁰¹	3.2	101
52	Hydrogen bonding modulates binding of exogenous ligands in a myoglobin proximal cavity mutant. <i>Biochemistry</i> , 1999 , 38, 11086-92	3.2	31
51	Vibrational Stark Spectroscopy in Proteins: A Probe and Calibration for Electrostatic Fields. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 9813-9817	3.4	191
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