Peter Hildebrandt

List of Publications by Year
in descending order

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388 papers	16,291 citations	16451 64 h-index	31849 101 g-index
420 all docs	420 docs citations	420 times ranked	11669 citing authors

#	Article	IF	Citations
1	Surface-enhanced resonance Raman spectroscopy of Rhodamine 6G adsorbed on colloidal silver. The Journal of Physical Chemistry, 1984, 88, 5935-5944.	2.9	1,394
2	Electron-Transfer Processes of Cytochrome c at Interfaces. New Insights by Surface-Enhanced Resonance Raman Spectroscopy. Accounts of Chemical Research, 2004, 37, 854-861.	15.6	236
3	Spectroscopic Characterization of Nonnative Conformational States of Cytochrome c. Journal of Physical Chemistry B, 2002, 106, 6566-6580.	2.6	234
4	Role of water in bacteriorhodopsin's chromophore: resonance Raman study. Biochemistry, 1984, 23, 5539-5548.	2.5	228
5	Cytochrome c at charged interfaces. 1. Conformational and redox equilibria at the electrode/electrolyte interface probed by surface-enhanced resonance Raman spectroscopy. Biochemistry, 1989, 28, 6710-6721.	2.5	183
6	Heterogeneous Electron Transfer of Cytochrome c on Coated Silver Electrodes. Electric Field Effects on Structure and Redox Potential. Journal of Physical Chemistry B, 2001, 105, 1578-1586.	2.6	180
7	Proton-Coupled Electron Transfer of Cytochromec. Journal of the American Chemical Society, 2001, 123, 4062-4068.	13.7	180
8	Mutational Analysis of Deinococcus radiodurans Bacteriophytochrome Reveals Key Amino Acids Necessary for the Photochromicity and Proton Exchange Cycle of Phytochromes. Journal of Biological Chemistry, 2008, 283, 12212-12226.	3.4	180
9	Copper incorporation into recombinant CotA laccase from Bacillus subtilis: characterization of fully copper loaded enzymes. Journal of Biological Inorganic Chemistry, 2008, 13, 183-193.	2.6	173
10	Phenoxyl Radical Complexes of Zinc(II). Journal of the American Chemical Society, 1997, 119, 8889-8900.	13.7	167
11	Light-induced Proton Release of Phytochrome Is Coupled to the Transient Deprotonation of the Tetrapyrrole Chromophore. Journal of Biological Chemistry, 2005, 280, 34358-34364.	3.4	149
12	Protonation State and Structural Changes of the Tetrapyrrole Chromophore during the Prâ†' PfrPhototransformation of Phytochrome:Â A Resonance Raman Spectroscopic Studyâ€. Biochemistry, 1999, 38, 15185-15192.	2.5	141
13	Redox and redox-coupled processes of heme proteins and enzymes at electrochemical interfaces. Physical Chemistry Chemical Physics, 2005, 7, 3773.	2.8	141
14	Alkaline Conformational Transitions of FerricytochromecStudied by Resonance Raman Spectroscopy. Journal of the American Chemical Society, 1998, 120, 11246-11255.	13.7	140
15	Disentangling interfacial redox processes of proteins by SERR spectroscopy. Chemical Society Reviews, 2008, 37, 937.	38.1	139
16	Surface-enhanced resonance Raman spectroscopy of cytochrome c at room and low temperatures. The Journal of Physical Chemistry, 1986, 90, 6017-6024.	2.9	126
17	Lewis Acid Trapping of an Elusive Copperâ€“Tosylnitrene Intermediate Using Scandium Triflate. Journal of the American Chemical Society, 2012, 134, 14710-14713.	13.7	120
18	Tyrosine hydrogen-bonding and environmental effects in proteins probed by ultraviolet resonance Raman spectroscopy. Biochemistry, 1988, 27, 5426-5433.	2.5	114

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19	Phenoxyl-copper(II) complexes: models for the active site of galactose oxidase. Journal of Biological Inorganic Chemistry, 1997, 2, 444-453.	2.6	114
20	In Situ Spectroelectrochemical Investigation of Electrocatalytic Microbial Biofilms by Surfaceâ€Enhanced Resonance Raman Spectroscopy. Angewandte Chemie - International Edition, 2011, 50, 2625-2627.	13.8	114
21	Fourier-Transform Resonance Raman Spectroscopy of Intermediates of the Phytochrome Photocycle. Biochemistry, 1995, 34, 10497-10507.	2.5	109
22	Trinuclear Nickel Complexes with Triplesalen Ligands:Â Simultaneous Occurrence of Mixed Valence and Valence Tautomerism in the Oxidized Species. Inorganic Chemistry, 2005, 44, 5467-5482.	4.0	107
23	Novel Time-Resolved Surface-Enhanced (Resonance) Raman Spectroscopic Technique for Studying the Dynamics of Interfacial Processes: Application to the Electron Transfer Reaction of Cytochrome c at a Silver Electrode. Applied Spectroscopy, 1999, 53, 283-291.	2.2	106
24	Highly Conserved Residues Asp-197 and His-250 in Agp1 Phytochrome Control the Proton Affinity of the Chromophore and Pfr Formation. Journal of Biological Chemistry, 2007, 282, 2116-2123.	3.4	106
25	A Photochromic Histidine Kinase Rhodopsin (HKR1) That Is Bimodally Switched by Ultraviolet and Blue Light. Journal of Biological Chemistry, 2012, 287, 40083-40090.	3.4	106
26	Peripheral and Integral Binding of Cytochromecto Phospholipids Vesicles. Journal of Physical Chemistry B, 2004, 108, 3871-3878.	2.6	102
27	On the Electron Transfer Mechanism Between Cytochromecand Metal Electrodes. Evidence for Dynamic Control at Short Distancesâ€. Journal of Physical Chemistry B, 2006, 110, 19906-19913.	2.6	102
28	Spectroscopic Insights into the Oxygen-tolerant Membrane-associated [NiFe] Hydrogenase of Ralstonia eutropha H16. Journal of Biological Chemistry, 2009, 284, 16264-16276.	3.4	102
29	Why Does the Active Form of Galactose Oxidase Possess a Diamagnetic Ground State?. Angewandte Chemie - International Edition, 1998, 37, 616-619.	13.8	100
30	Cytochrome c-lipid interactions studied by resonance Raman and phosphorus-31 NMR spectroscopy. Correlation between the conformational changes of the protein and the lipid bilayer. Biochemistry, 1991, 30, 9084-9089.	2.5	99
31	The structural and functional role of lysine residues in the binding domain of cytochrome c in the electron transfer to cytochrome c oxidase. FEBS Journal, 1999, 261, 379-391.	0.2	98
32	Resonance Raman Spectroscopic Study of Metallochlorin Aggregates. Implications for the Supramolecular Structure in Chlorosomal BChl c Antennae of Green Bacteria. The Journal of Physical Chemistry, 1994, 98, 2192-2197.	2.9	97
33	Direct Observation of the Gating Step in Protein Electron Transfer: Electric-Field-Controlled Protein Dynamics. Journal of the American Chemical Society, 2008, 130, 9844-9848.	13.7	97
34	FeIII-Hydroperoxo and Peroxo Complexes with Aminopyridyl Ligands and the Resonance Raman Spectroscopic Identification of the Feâ^'O and Oâ^'O Stretching Modes. European Journal of Inorganic Chemistry, 2000, 2000, 1627-1633.	2.0	93
35	Diastereoselective Control of BacteriochlorophylleAggregation. 31-S-BChlels Essential for the Formation of Chlorosome-Like Aggregates. Journal of Physical Chemistry B, 2000, 104, 10379-10386.	2.6	93
36	Phenoxyl radical complexes of chromium(III), manganese(III), cobalt(III), and nickel(II). Inorganica Chimica Acta, 2000, 297, 265-277.	2.4	91

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37	Resonance Raman spectra of Î²-carotene in solution and in photosystems revisited: an experimental and theoretical study. Physical Chemistry Chemical Physics, 2009, 11, 11471.	2.8	90
38	The Chromophore Structural Changes during the Photocycle of Phytochrome:â€‰ A Combined Resonance Raman and Quantum Chemical Approach. Accounts of Chemical Research, 2007, 40, 258-266.	15.6	86
39	Cytochrome c at charged interfaces. 2. Complexes with negatively charged macromolecular systems studied by resonance Raman spectroscopy. Biochemistry, 1989, 28, 6722-6728.	2.5	85
40	Redox and Conformational Equilibria and Dynamics of Cytochrome c at High Electric Fields. ChemPhysChem, 2003, 4, 714-724.	2.1	85
41	Reversible [4Fe-3S] cluster morphing in an O2-tolerant [NiFe] hydrogenase. Nature Chemical Biology, 2014, 10, 378-385.	8.0	85
42	Analysis of vibrational spectra of multicomponent systems. Application to pH-dependent resonance Raman spectra of ferricytochrome c. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1996, 52, 573-584.	3.9	82
43	Determination of the Chromophore Structures in the Photoinduced Reaction Cycle of Phytochrome. Journal of the American Chemical Society, 2004, 126, 16734-16735.	13.7	82
44	A Selfâ€Improved Waterâ€Oxidation Catalyst: Is One Site Really Enough?. Angewandte Chemie - International Edition, 2014, 53, 205-209.	13.8	82
45	Raman Spectroscopic and Light-Induced Kinetic Characterization of a Recombinant Phytochrome of the Cyanobacterium Synechocystis. Biochemistry, 1997, 36, 13389-13395.	2.5	81
46	Anilino Radical Complexes of Cobalt(III) and Manganese(IV) and Comparison with Their Phenoxyl Analogues. Journal of the American Chemical Society, 2000, 122, 9663-9673.	13.7	81
47	Electrostatic-Field Dependent Activation Energies Modulate Electron Transfer of Cytochrome c. Journal of Physical Chemistry B, 2002, 106, 12814-12819.	2.6	81
48	Enhancement factor of surface-enhanced Raman scattering on silver and gold surfaces upon near-infrared excitation. Indication of an unusual strong contribution of the chemical effect. Journal of Raman Spectroscopy, 1993, 24, 791-796.	2.5	80
49	Conformational changes in cytochrome c and cytochrome oxidase upon complex formation: a resonance Raman study. Biochemistry, 1990, 29, 1661-1668.	2.5	77
50	Resonance Raman Spectroscopic Study of Phenoxyl Radical Complexes. Journal of the American Chemical Society, 1998, 120, 2352-2364.	13.7	77
51	Novel Auâ^'Ag Hybrid Device for Electrochemical SE(R)R Spectroscopy in a Wide Potential and Spectral Range. Nano Letters, 2009, 9, 298-303.	9.1	76
52	Cyanochromes Are Blue/Green Light Photoreversible Photoreceptors Defined by a Stable Double Cysteine Linkage to a Phycoviolobilin-type Chromophore. Journal of Biological Chemistry, 2009, 284, 29757-29772.	3.4	75
53	De novoDesign and Characterization of Copper Centers in Synthetic Four-Helix-Bundle Proteins. Journal of the American Chemical Society, 2001, 123, 2186-2195.	13.7	74
54	A protonation-coupled feedback mechanism controls the signalling process in bathy phytochromes. Nature Chemistry, 2015, 7, 423-430.	13.6	74

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55	Structure of the Full-Length Bacteriophytochrome from the Plant Pathogen Xanthomonas campestris Provides Clues to its Long-Range Signaling Mechanism. Journal of Molecular Biology, 2016, 428, 3702-3720.	4.2	73
56	The Fungal Phytochrome FphA from Aspergillus nidulans. Journal of Biological Chemistry, 2008, 283, 34605-34614.	3.4	71
57	A periplasmic aldehyde oxidoreductase represents the first molybdopterin cytosine dinucleotide cofactor containing molybdoâ€flavoenzyme from Escherichia coli. FEBS Journal, 2009, 276, 2762-2774.	4.7	71
58	Magnetic Silver Hybrid Nanoparticles for Surface-Enhanced Resonance Raman Spectroscopic Detection and Decontamination of Small Toxic Molecules. ACS Nano, 2013, 7, 3212-3220.	14.6	71
59	Quantum Mechanics/Molecular Mechanics Calculation of the Raman Spectra of the Phycocyanobilin Chromophore in Î±-C-Phycocyanin. Biophysical Journal, 2007, 93, 1885-1894.	0.5	70
60	NAD(H)â€coupled hydrogen cycling â€“ structureâ€“function relationships of bidirectional [NiFe] hydrogenases. FEBS Letters, 2012, 586, 545-556.	2.8	68
61	Photoconversion Mechanism of the Second GAF Domain of Cyanobacteriochrome AnPixJ and the Cofactor Structure of Its Green-Absorbing State. Biochemistry, 2013, 52, 4871-4880.	2.5	68
62	Quantitative conformational analysis of cytochromec bound to phospholipid vesicles studied by resonance Raman spectroscopy. European Biophysics Journal, 1990, 18, 193-201.	2.2	67
63	Proximal mutations at the typeÂ1 copper site of CotA laccase: spectroscopic, redox, kinetic and structural characterization of I494A and L386A mutants. Biochemical Journal, 2008, 412, 339-346.	3.7	66
64	Molecular Basis for the Electric Field Modulation of Cytochrome c Structure and Function. Journal of the American Chemical Society, 2009, 131, 16248-16256.	13.7	66
65	Chromophore Structure of Cyanobacterial Phytochrome Cph1 in the Pr State: Reconciling Structural and Spectroscopic Data by QM/MM Calculations. Biophysical Journal, 2009, 96, 4153-4163.	0.5	66
66	Assembly of photoactive orange carotenoid protein from its domains unravels a carotenoid shuttle mechanism. Photosynthesis Research, 2017, 133, 327-341.	2.9	66
67	Probing the Active Site of an O₂â€Tolerant NAD⁺â€Reducing [NiFe]â€Hydrogenase from Ralstonia eutropha H16 by Inâ€…Situ EPR and FTIR Spectroscopy. Angewandte Chemie - International Edition, 2010, 49, 8026-8029.	13.8	65
68	Discrimination of Green Arabica and Robusta Coffee Beans by Raman Spectroscopy. Journal of Agricultural and Food Chemistry, 2010, 58, 11187-11192.	5.2	65
69	Metal-versusLigand-Centered Oxidations in Phenolatoâ^'Vanadium and â^'Cobalt Complexes:Â Characterization of Phenoxylâ^'Cobalt(III) Species. Inorganic Chemistry, 1997, 36, 3702-3710.	4.0	64
70	Chromophore Heterogeneity and Photoconversion in Phytochrome Crystals and Solution Studied by Resonance Raman Spectroscopy. Angewandte Chemie - International Edition, 2008, 47, 4753-4755.	13.8	64
71	Molecular Basis of Coupled Protein and Electron Transfer Dynamics of Cytochrome c in Biomimetic Complexes. Journal of the American Chemical Society, 2010, 132, 5769-5778.	13.7	64
72	Surfaceâ€enhanced vibrational spectroscopy for probing transient interactions of proteins with biomimetic interfaces: electric field effects on structure, dynamics and function of cytochromeâ€*f* c. FEBS Journal, 2011, 278, 1382-1390.	4.7	64

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73	The Molecular and Electronic Structure of Symmetrically and Asymmetrically Coordinated, Non-Heme Iron Complexes Containing [FeIII(Î¼-N)FeIV]4+ (S=3/2) and [FeIV(Î¼-N)FeIV]5+ (S=0) Cores. Chemistry - A European Journal, 1999, 5, 793-810.	3.3	63
74	Electric-Field-Induced Redox Potential Shifts of Tetraheme Cytochromes c3 Immobilized on Self-Assembled Monolayers: Surface-Enhanced Resonance Raman Spectroscopy and Simulation Studies. Biophysical Journal, 2005, 88, 4188-4199.	0.5	63
75	Potentialâ€Dependent Surfaceâ€Enhanced Resonance Raman Spectroscopy at Nanostructured TiO₂: A Case Study on Cytochrome b₅. Small, 2013, 9, 4175-4181.	10.0	63
76	Surface-Enhanced Resonance Raman Spectroscopic and Electrochemical Study of Cytochrome c Bound on Electrodes through Coordination with Pyridinyl-Terminated Self-Assembled Monolayers. Journal of Physical Chemistry B, 2004, 108, 2261-2269.	2.6	62
77	Conformational transitions and redox potential shifts of cytochrome P450 induced by immobilization. Journal of Biological Inorganic Chemistry, 2006, 11, 119-127.	2.6	62
78	Redox-linked protein dynamics of cytochrome c probed by time-resolved surface enhanced infrared absorption spectroscopy. Physical Chemistry Chemical Physics, 2008, 10, 5276.	2.8	62
79	Structural snapshot of a bacterial phytochrome in its functional intermediate state. Nature Communications, 2018, 9, 4912.	12.8	62
80	Spectroelectrochemical Study of the [NiFe] Hydrogenase from Desulfovibrio vulgaris Miyazaki F in Solution and Immobilized on Biocompatible Gold Surfaces. Journal of Physical Chemistry B, 2009, 113, 15344-15351.	2.6	61
81	The Molecular and Electronic Structure of Octahedral Tris(phenolato)iron(III) Complexes and Their Phenoxyl Radical Analogues: A MÃ¶ssbauer and Resonance Raman Spectroscopic Study. Chemistry - A European Journal, 1999, 5, 2554-2565.	3.3	60
82	Conformational and Redox Equilibria and Dynamics of CytochromecImmobilized on Electrodes via Hydrophobic Interactions. Journal of Physical Chemistry B, 2002, 106, 4823-4830.	2.6	60
83	Redox properties and catalytic activity of surface-bound human sulfite oxidase studied by a combined surface enhanced resonance Raman spectroscopic and electrochemical approach. Physical Chemistry Chemical Physics, 2010, 12, 7894.	2.8	60
84	Combined Electrochemistry and Surfaceâ€Enhanced Infrared Absorption Spectroscopy of Gramicidin A Incorporated into Tethered Bilayer Lipid Membranes. Angewandte Chemie - International Edition, 2012, 51, 8114-8117.	13.8	60
85	Resonance Raman Spectroscopy on [NiFe] Hydrogenase Provides Structural Insights into Catalytic Intermediates and Reactions. Journal of the American Chemical Society, 2014, 136, 9870-9873.	13.7	60
86	Long distance electron transfer in cytochrome c oxidase immobilised on electrodes. A surface enhanced resonance Raman spectroscopic study. Physical Chemistry Chemical Physics, 2006, 8, 759-766.	2.8	59
87	Vibrational Stark Effect of the Electric-Field Reporter 4-Mercaptobenzonitrile as a Tool for Investigating Electrostatics at Electrode/SAM/Solution Interfaces. International Journal of Molecular Sciences, 2012, 13, 7466-7482.	4.1	59
88	Structure of the Biliverdin Cofactor in the Pfr State of Bathy and Prototypical Phytochromes. Journal of Biological Chemistry, 2013, 288, 16800-16814.	3.4	58
89	Active site structure and redox processes of cytochrome c oxidase immobilised in a novel biomimetic lipid membrane on an electrode. Chemical Communications, 2004, , 2376.	4.1	57
90	Magnetic Titanium Dioxide Nanocomposites for Surfaceâ€Enhanced Resonance Raman Spectroscopic Determination and Degradation of Toxic Anilines and Phenols. Angewandte Chemie - International Edition, 2014, 53, 2481-2484.	13.8	57

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91	Protonation-Dependent Structural Heterogeneity in the Chromophore Binding Site of Cyanobacterial Phytochrome Cph1. Journal of Physical Chemistry B, 2017, 121, 47-57.	2.6	56
92	MerMAIDs: a family of metagenomically discovered marine anion-conducting and intensely desensitizing channelrhodopsins. Nature Communications, 2019, 10, 3315.	12.8	56
93	Chromophoreâ^'Anion Interactions in Halorhodopsin fromNatronobacterium pharaonisProbed by Time-Resolved Resonance Raman Spectroscopyâ€. Biochemistry, 1997, 36, 11012-11020.	2.5	55
94	Electron transfer dynamics of cytochrome c bound to self-assembled monolayers on silver electrodes. Bioelectrochemistry, 2002, 55, 139-143.	4.6	55
95	Flexibility of human cytochrome P450 enzymes: Molecular dynamics and spectroscopy reveal important function-related variations. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2011, 1814, 58-68.	2.3	55
96	Supramolecular Templates for Nanoflakeâ€“Metal Surfaces. Chemistry - A European Journal, 2009, 15, 2763-2767.	3.3	54
97	Lightâ€“Dark Adaptation of Channelrhodopsin Involves Photoconversion between the all-trans and 13-cis Retinal Isomers. Biochemistry, 2015, 54, 5389-5400.	2.5	54
98	Probing Structure and Reaction Dynamics of Proteins Using Time-Resolved Resonance Raman Spectroscopy. Chemical Reviews, 2020, 120, 3577-3630.	47.7	54
99	Time-Resolved Surface-Enhanced Resonance Raman Spectroscopy for Studying Electron-Transfer Dynamics of Heme Proteins. Journal of the American Chemical Society, 1998, 120, 7381-7382.	13.7	53
100	Carbamoylphosphate serves as the source of CNâ^', but not of the intrinsic CO in the active site of the regulatory [NiFe]-hydrogenase fromRalstonia eutropha. FEBS Letters, 2007, 581, 3322-3326.	2.8	53
101	Resonance Raman Spectroscopy as a Tool to Monitor the Active Site of Hydrogenases. Angewandte Chemie - International Edition, 2013, 52, 5162-5165.	13.8	53
102	Active-Site Structure and Dynamics of Cytochrome c Immobilized on Self-Assembled Monolayers-A Time-Resolved Surface Enhanced Resonance Raman Spectroscopic Study. Angewandte Chemie - International Edition, 2001, 40, 728-731.	13.8	52
103	Vibrational spectroscopy reveals the initial steps of biological hydrogen evolution. Chemical Science, 2016, 7, 6746-6752.	7.4	52
104	(Photo)ionization of tris(phenolato)iron(III) complexes: generation of phenoxyl radical as ligand. Journal of the American Chemical Society, 1993, 115, 11222-11230.	13.7	51
105	Characterization of Two Thermostable Cyanobacterial Phytochromes Reveals Global Movements in the Chromophore-binding Domain during Photoconversion. Journal of Biological Chemistry, 2008, 283, 21251-21266.	3.4	51
106	Î¼-Nitridodiiron Complexes with Asymmetric[FeIVï£½N-FeIII]4+ and Symmetric[FeIVï£¾Nï£¾FeIV]5+ Structural Elements. Angewandte Chemie International Edition in English, 1995, 34, 669-672.	4.4	49
107	Conformational equilibria and dynamics of cytochrome c induced by binding of sodium dodecyl sulfate monomers and micelles. European Biophysics Journal, 2003, 32, 599-613.	2.2	49
108	Mesoporous Indium Tin Oxide as a Novel Platform for Bioelectronics. ChemCatChem, 2010, 2, 839-845.	3.7	49

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109	The role of Glu498 in the dioxygen reactivity of CotA-laccase from Bacillus subtilis. Dalton Transactions, 2010, 39, 2875.	3.3	49
110	SEIRA Spectroscopy of the Electrochemical Activation of an Immobilized [NiFe] Hydrogenase under Turnover and Nonâ€Turnover Conditions. Angewandte Chemie - International Edition, 2011, 50, 2632-2634.	13.8	48
111	Dinuclear Copper Complexes Based on Parallel Î²-Diiminato Binding Sites and their Reactions with O₂: Evidence for a Cuâˆ'Oâˆ'Cu Entity. Inorganic Chemistry, 2011, 50, 2133-2142.	4.0	47
112	Comparative resonance Raman study of cytochrome c oxidase from beef heart and Paracoccus denitrificans. Biochemistry, 1993, 32, 10866-10877.	2.5	46
113	Monitoring Catalysis of the Membraneâ€Bound Hydrogenase from Ralstonia eutropha H16 by Surfaceâ€Enhanced IR Absorption Spectroscopy. Angewandte Chemie - International Edition, 2009, 48, 611-613.	13.8	46
114	Resonance Raman study of the interactions between cytochrome c variants and cytochrome c oxidase. Biochemistry, 1993, 32, 10912-10922.	2.5	45
115	Gated Electron Transfer of Yeast Iso-1 Cytochrome c on Self-Assembled Monolayer-Coated Electrodes. Journal of Physical Chemistry B, 2008, 112, 15202-15211.	2.6	45
116	Structural changes of myoglobin in pressure-treated pork meat probed by resonance Raman spectroscopy. Food Chemistry, 2009, 115, 1194-1198.	8.2	45
117	Electric-Field Control of the pH-Dependent Redox Process of Cytochrome c Immobilized on a Gold Electrode. Journal of Physical Chemistry C, 2012, 116, 13038-13044.	3.1	45
118	Unusual Spectral Properties of Bacteriophytochrome Agp2 Result from a Deprotonation of the Chromophore in the Red-absorbing Form Pr. Journal of Biological Chemistry, 2013, 288, 31738-31751.	3.4	45
119	Redox Processes of CytochromecImmobilized on Solid Supported Polyelectrolyte Multilayers. Journal of Physical Chemistry B, 2006, 110, 522-529.	2.6	44
120	Concerted Action of Two Novel Auxiliary Proteins in Assembly of the Active Site in a Membrane-bound [NiFe] Hydrogenase. Journal of Biological Chemistry, 2009, 284, 2159-2168.	3.4	44
121	A Red/Green Cyanobacteriochrome Sustains Its Color Despite a Change in the Bilin Chromophoreâ€™s Protonation State. Biochemistry, 2015, 54, 5839-5848.	2.5	44
122	Fourier transform resonance Raman spectroscopy of phytochrome. Biochemistry, 1992, 31, 7957-7962.	2.5	43
123	Resonance Raman spectroscopy of sensory rhodopsin II from Natronobacterium pharaonis. FEBS Letters, 2000, 472, 263-266.	2.8	43
124	DsrJ, an Essential Part of the DsrMKJOP Transmembrane Complex in the Purple Sulfur Bacterium Allochromatium vinosum, Is an Unusual Triheme Cytochrome c. Biochemistry, 2010, 49, 8290-8299.	2.5	43
125	Vibrational analysis of biliverdin dimethyl ester. The Journal of Physical Chemistry, 1993, 97, 11887-11900.	2.9	42
126	Reduction of Unusual Iron-Sulfur Clusters in the H2-sensing Regulatory Ni-Fe Hydrogenase from Ralstonia eutropha H16. Journal of Biological Chemistry, 2005, 280, 19488-19495.	3.4	42

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127	Heme Coordination States of Unfolded Ferrous Cytochrome c. Biophysical Journal, 2006, 91, 3022-3031.	0.5	42
128	Temperature Dependence of the Catalytic Two- versus Four-Electron Reduction of Dioxygen by a Hexanuclear Cobalt Complex. Journal of the American Chemical Society, 2017, 139, 15033-15042.	13.7	42
129	Binding of Azole Antibiotics to Staphylococcus aureus Flavohemoglobin Increases Intracellular Oxidative Stress. Journal of Bacteriology, 2010, 192, 1527-1533.	2.2	41
130	Spectroscopic and Photochemical Characterization of the Redâ€Light Sensitive Photosensory Module of Cph2 from Synechocystis PCC 6803. Photochemistry and Photobiology, 2011, 87, 160-173.	2.5	41
131	A Highâ€Valent Heterobimetallic [Cu^{III}(Î¼â€O)₂Ni^{III}]²⁺ Core with Nucleophilic Oxo Groups. Angewandte Chemie - International Edition, 2013, 52, 5622-5626.	13.8	41
132	High Performance Reduction of H₂O₂ with an Electron Transport Decaheme Cytochrome on a Porous ITO Electrode. Journal of the American Chemical Society, 2017, 139, 3324-3327.	13.7	41
133	Determination of the Local Electric Field at Au/SAM Interfaces Using the Vibrational Stark Effect. Journal of Physical Chemistry C, 2017, 121, 22274-22285.	3.1	41
134	Raman excitation profiles of Î² â€carotene â€“ novel insights into the nature of the Î½₁â€band. Physica Status Solidi (B): Basic Research, 2008, 245, 2225-2228.	1.5	40
135	Site Directed Mutagenesis of Amino Acid Residues at the Active Site of Mouse Aldehyde Oxidase AOX1. PLoS ONE, 2009, 4, e5348.	2.5	40
136	Role of Met80 and Tyr67 in the Low-pH Conformational Equilibria of Cytochrome c. Biochemistry, 2012, 51, 5967-5978.	2.5	40
137	Calculation of Vibrational Spectra of Linear Tetrapyrroles. 1. Global Sets of Scaling Factors for Force Fields Derived by ab Initio and Density Functional Theory Methods. Journal of Physical Chemistry A, 1999, 103, 289-303.	2.5	39
138	Induced SERâ€Activity in Nanostructured Agâ€“Silicaâ€“Au Supports via Longâ€Range Plasmon Coupling. Advanced Functional Materials, 2010, 20, 1954-1961.	14.9	39
139	Role of the HoxZ Subunit in the Electron Transfer Pathway of the Membrane-Bound [NiFe]-Hydrogenase from Ralstonia eutropha Immobilized on Electrodes. Journal of Physical Chemistry B, 2011, 115, 10368-10374.	2.6	39
140	Interpretation of the resonance Raman spectra of linear tetrapyrroles based on DFT calculations. Chemical Physics Letters, 1999, 311, 479-484.	2.6	38
141	Midpoint Potentials of Hemesaanda3in the Quinol Oxidase fromAcidianus ambivalensare Inverted. Journal of the American Chemical Society, 2005, 127, 13561-13566.	13.7	38
142	The Mechanism of Assembly and Cofactor Insertion into Rhodobacter capsulatus Xanthine Dehydrogenase. Journal of Biological Chemistry, 2008, 283, 16602-16611.	3.4	38
143	Electric-field effects on the interfacial electron transfer and protein dynamics of cytochrome c. Journal of Electroanalytical Chemistry, 2011, 660, 367-376.	3.8	38
144	Structure of the Chromophore Binding Pocket in the Pr State of Plant Phytochrome phyA. Journal of Physical Chemistry B, 2011, 115, 1220-1231.	2.6	38

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145	Voltage-dependent structural changes of the membrane-bound anion channel hVDAC1 probed by SEIRA and electrochemical impedance spectroscopy. Physical Chemistry Chemical Physics, 2014, 16, 9546-9555.	2.8	38
146	Polyanion binding to cytochrome c probed by resonance Raman spectroscopy. BBA - Proteins and Proteomics, 1990, 1040, 175-186.	2.1	37
147	Characterization of an Alkaline Transition Intermediate Stabilized in the Phe82Trp Variant of Yeastiso-1-Cytochromecâ€. Biochemistry, 2000, 39, 9047-9054.	2.5	37
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