Peter Hildebrandt

List of Publications by Year
in descending order

388 papers	16,291 citations	16437 64 h-index	31818 101 g-index
420 all docs	420 docs citations	420 times ranked	11669 citing authors

#	Article	IF	Citations
1	Unusual structures and unknown roles of FeS clusters in metalloenzymes seen from a resonance Raman spectroscopic perspective. Coordination Chemistry Reviews, 2022, 452, 214287.	9.5	16
2	Generation of a Î¼-1,2-hydroperoxo FeIIIFeIII and a Î¼-1,2-peroxo FeIVFeIII Complex. Nature Communications, 2022, 13, 1376.	5.8	13
3	Photoinduced reaction mechanisms in prototypical and bathy phytochromes. Physical Chemistry Chemical Physics, 2022, 24, 11967-11978.	1.3	6
4	Ultrafast proton-coupled isomerization in the phototransformation of phytochrome. Nature Chemistry, 2022, 14, 823-830.	6.6	12
5	Electron transfer between cytochrome c and microsomal monooxygenase generates reactive oxygen species that accelerates apoptosis. Redox Biology, 2022, 53, 102340.	3.9	12
6	A Pseudotetrahedral Terminal Oxoiron(IV) Complex: Mechanistic Promiscuity in Câˆ’H Bond Oxidation Reactions. Angewandte Chemie - International Edition, 2021, 60, 6752-6756.	7.2	16
7	A bioinspired oxoiron(<scp>iv</scp>) motif supported on a N₂S₂ macrocyclic ligand. Chemical Communications, 2021, 57, 2947-2950.	2.2	11
8	Light- and temperature-dependent dynamics of chromophore and protein structural changes in bathy phytochrome Agp2. Physical Chemistry Chemical Physics, 2021, 23, 18197-18205.	1.3	8
9	A Resonance Raman Marker Band Characterizes the Slow and Fast Form of Cytochrome c Oxidase. Journal of the American Chemical Society, 2021, 143, 2769-2776.	6.6	10
10	A Pseudotetrahedral Terminal Oxoiron(IV) Complex: Mechanistic Promiscuity in Câˆ’H Bond Oxidation Reactions. Angewandte Chemie, 2021, 133, 6826-6830.	1.6	3
11	Stable, but still reactive â€“ investigations on the effects of Lewis acid binding on copper nitrene intermediates. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2021, 647, 1495-1502.	0.6	6
12	Molecular Details on Multiple Cofactor Containing Redox Metalloproteins Revealed by Infrared and Resonance Raman Spectroscopies. Molecules, 2021, 26, 4852.	1.7	1
13	Spektroskopische Charakterisierung eines reaktiven [Cu 2 (Î¼â€O) 2] 2+ Intermediates in Cu/TEMPOâ€katalysierten aeroben Alkoholoxidationen. Angewandte Chemie, 2021, 133, 23201.	1.6	0
14	Local Electric Field Changes during the Photoconversion of the Bathy Phytochrome Agp2. Biochemistry, 2021, 60, 2967-2977.	1.2	10
15	Spectroscopic Characterization of a Reactive [Cu₂(Î¼â€O)₂]²⁺ Intermediate in Cu/TEMPO Catalyzed Aerobic Alcohol Oxidation Reaction. Angewandte Chemie - International Edition, 2021, 60, 23018-23024.	7.2	16
16	Hydroxy-bridged resting states of a [NiFe]-hydrogenase unraveled by cryogenic vibrational spectroscopy and DFT computations. Chemical Science, 2021, 12, 2189-2197.	3.7	17
17	The influence of secondary interactions on the [Ni(O2)]+ mediated aldehyde oxidation reactions. Journal of Inorganic Biochemistry, 2021, 227, 111668.	1.5	2
18	On the Role of the Conserved Histidine at the Chromophore Isomerization Site in Phytochromes. Journal of Physical Chemistry B, 2021, 125, 13696-13709.	1.2	8

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19	Red, Orange, Green: Light- and Temperature-Dependent Color Tuning in a Cyanobacteriochrome. Biochemistry, 2020, 59, 509-519.	1.2	18
20	Probing Structure and Reaction Dynamics of Proteins Using Time-Resolved Resonance Raman Spectroscopy. Chemical Reviews, 2020, 120, 3577-3630.	23.0	54
21	In Vitro Assembly as a Tool to Investigate Catalytic Intermediates of [NiFe]-Hydrogenase. ACS Catalysis, 2020, 10, 13890-13894.	5.5	13
22	Structural insights into photoactivation and signalling in plant phytochromes. Nature Plants, 2020, 6, 581-588.	4.7	22
23	Stoichiometric Formation of an Oxoiron(IV) Complex by a Soluble Methane Monooxygenase Type Activation of O₂ at an Iron(II)-Cyclam Center. Journal of the American Chemical Society, 2020, 142, 5924-5928.	6.6	27
24	Distinct chromophoreâ€“protein environments enable asymmetric activation of a bacteriophytochrome-activated diguanylate cyclase. Journal of Biological Chemistry, 2020, 295, 539-551.	1.6	14
25	Intramolecular Proton Transfer Controls Protein Structural Changes in Phytochrome. Biochemistry, 2020, 59, 1023-1037.	1.2	14
26	Immobilized dye-decolorizing peroxidase (DyP) and directed evolution variants for hydrogen peroxide biosensing. Biosensors and Bioelectronics, 2020, 153, 112055.	5.3	18
27	The large subunit of the regulatory [NiFe]-hydrogenase fromRalstonia eutrophaâ€“ a minimal hydrogenase?. Chemical Science, 2020, 11, 5453-5465.	3.7	20
28	Catalytic dioxygen reduction mediated by a tetranuclear cobalt complex supported on a stannoxane core. Dalton Transactions, 2020, 49, 6065-6073.	1.6	1
29	The Lumi-R Intermediates of Prototypical Phytochromes. Journal of Physical Chemistry B, 2020, 124, 4044-4055.	1.2	10
30	Influence of Mesityl and Thiophene Peripheral Substituents on Surface Attachment, Redox Chemistry, and ORR Activity of Molecular Iron Porphyrin Catalysts on Electrodes. Inorganic Chemistry, 2019, 58, 10637-10647.	1.9	13
31	Gradient metal nanoislands as a unified surface enhanced Raman scattering and surface enhanced infrared absorption platform for analytics. Analyst, The, 2019, 144, 5271-5276.	1.7	16
32	MerMAIDs: a family of metagenomically discovered marine anion-conducting and intensely desensitizing channelrhodopsins. Nature Communications, 2019, 10, 3315.	5.8	56
33	Role of the Propionic Side Chains for the Photoconversion of Bacterial Phytochromes. Biochemistry, 2019, 58, 3504-3519.	1.2	13
34	Spectroscopic, thermodynamic and computational evidence of the locations of the FADs in the nitrogen fixation-associated electron transfer flavoprotein. Chemical Science, 2019, 10, 7762-7772.	3.7	11
35	Accelerated Photoâ€Induced Degradation of Benzidineâ€p â€Aminothiophenolate Immobilized at Lightâ€Enhancing TiO 2 Nanotube Electrodes. Chemistry - A European Journal, 2019, 25, 16048-16053.	1.7	6
36	The C-Terminal VPRTES Tail of LL-37 Influences the Mode of Attachment to a Lipid Bilayer and Antimicrobial Activity. Biochemistry, 2019, 58, 2447-2462.	1.2	18

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37	Photoreactions of the Histidine Kinase Rhodopsin Ot-HKR from the Marine Picoalga Ostreococcus tauri. Biochemistry, 2019, 58, 1878-1891.	1.2	6
38	Chromophore binding to two cysteines increases quantum yield of near-infrared fluorescent proteins. Scientific Reports, 2019, 9, 1866.	1.6	15
39	On the pH-Modulated Ru-Based Prodrug Activation Mechanism. Inorganic Chemistry, 2019, 58, 1216-1223.	1.9	9
40	Improved Method for the Incorporation of Heme Cofactors into Recombinant Proteins Using Escherichia coli Nissle 1917. Biochemistry, 2018, 57, 2747-2755.	1.2	29
41	Controlled Microwave-Hydrolyzed Starch as a Stabilizer for Green Formulation of Aqueous Gold Nanoparticle Ink for Flexible Printed Electronics. ACS Applied Nano Materials, 2018, 1, 1247-1256.	2.4	30
42	Monitoring the Orientational Changes of Alamethicin during Incorporation into Bilayer Lipid Membranes. Langmuir, 2018, 34, 2373-2385.	1.6	35
43	The Photoconversion of Phytochrome Includes an Unproductive Shunt Reaction Pathway. ChemPhysChem, 2018, 19, 566-570.	1.0	26
44	Surface-Enhanced Resonance Raman Spectroscopy in Electron Transfer Studies. , 2018, , 1-8.		0
45	Spectroelectrochemical insights into structural and redox properties of immobilized endonuclease III and its catalytically inactive mutant. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 188, 149-154.	2.0	7
46	Structural snapshot of a bacterial phytochrome in its functional intermediate state. Nature Communications, 2018, 9, 4912.	5.8	62
47	Plasmonic Cu/CuCl/Cu₂S/Ag and Cu/CuCl/Cu₂S/Au Supports with Peroxidase-Like Activity: Insights from Surface Enhanced Raman Spectroscopy. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1541-1550.	1.4	3
48	In Situ Spectroelectrochemical Studies into the Formation and Stability of Robust Diazonium-Derived Interfaces on Gold Electrodes for the Immobilization of an Oxygen-Tolerant Hydrogenase. ACS Applied Materials & Interfaces, 2018, 10, 23380-23391.	4.0	23
49	Quantification of Hv1-induced proton translocation by a lipid-coupled Oregon Green 488-based assay. Analytical and Bioanalytical Chemistry, 2018, 410, 6497-6505.	1.9	3
50	Robust electrografted interfaces on metal oxides for electrocatalysis â€“ an in situ spectroelectrochemical study. Journal of Materials Chemistry A, 2018, 6, 15200-15212.	5.2	33
51	Long-Range Modulations of Electric Fields in Proteins. Journal of Physical Chemistry B, 2018, 122, 8330-8342.	1.2	30
52	Resonance Raman Spectroscopy of Proteinâ€“Cofactor Complexes. , 2018, , 1-10.		0
53	An Sâ€Oxygenated [NiFe] Complex Modelling Sulfenate Intermediates of an O₂â€Tolerant Hydrogenase. Angewandte Chemie - International Edition, 2017, 56, 2208-2211.	7.2	21
54	Ein Sâ€oxygenierter [NiFe]â€Komplex als Modell fÃ¼r Sulfenatâ€intermediate einer O₂â€toleranten Hydrogenase. Angewandte Chemie, 2017, 129, 2243-2247.	1.6	1

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55	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.	6.6	41
56	Assembly of photoactive orange carotenoid protein from its domains unravels a carotenoid shuttle mechanism. Photosynthesis Research, 2017, 133, 327-341.	1.6	66
57	An expanded genetic code for probing the role of electrostatics in enzyme catalysis by vibrational Stark spectroscopy. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 3053-3059.	1.1	11
58	Common Structural Elements in the Chromophore Binding Pocket of the Pfr State of Bathy Phytochromes. Photochemistry and Photobiology, 2017, 93, 724-732.	1.3	21
59	Characterization of anisotropically shaped silver nanoparticle arrays via spectroscopic ellipsometry supported by numerical optical modeling. Applied Surface Science, 2017, 421, 460-464.	3.1	11
60	A New Domain of Reactivity for Highâ€Valent Dinuclear [M(Î¼â€O)₂Mâ€²] Complexes in Oxidation Reactions. Angewandte Chemie - International Edition, 2017, 56, 297-301.	7.2	26
61	Structural and Vibrational Characterization of the Chromophore Binding Site of Bacterial Phytochrome Agp1. Photochemistry and Photobiology, 2017, 93, 713-723.	1.3	16
62	Carbon Monoxide Dehydrogenase Reduces Cyanate to Cyanide. Angewandte Chemie - International Edition, 2017, 56, 7398-7401.	7.2	10
63	Reversible light-dependent molecular switches on Ag/AgCl nanostructures. Nanoscale, 2017, 9, 8380-8387.	2.8	15
64	Die Kohlenmonoxidâ€Dehydrogenase reduziert Cyanat zu Cyanid. Angewandte Chemie, 2017, 129, 7504-7507.	1.6	0
65	Structural communication between the chromophoreâ€binding pocket and the Nâ€terminal extension in plant phytochrome phyB. FEBS Letters, 2017, 591, 1258-1265.	1.3	7
66	Switchable Redox Chemistry of the Hexameric Tyrosine-Coordinated Heme Protein. Journal of Physical Chemistry B, 2017, 121, 3955-3964.	1.2	8
67	A New Domain of Reactivity for Highâ€Valent Dinuclear [M(Î¼â€O) 2 Mâ€²] Complexes in Oxidation Reactions. Angewandte Chemie, 2017, 129, 303-307.	1.6	8
68	Protonation-Dependent Structural Heterogeneity in the Chromophore Binding Site of Cyanobacterial Phytochrome Cph1. Journal of Physical Chemistry B, 2017, 121, 47-57.	1.2	56
69	Determination of the Local Electric Field at Au/SAM Interfaces Using the Vibrational Stark Effect. Journal of Physical Chemistry C, 2017, 121, 22274-22285.	1.5	41
70	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.	6.6	42
71	Redox-dependent substrate-cofactor interactions in the Michaelis-complex of a flavin-dependent oxidoreductase. Nature Communications, 2017, 8, .	5.8	18
72	Electrochemical and Resonance Raman Spectroscopic Studies of Waterâ€Oxidizing Ruthenium Terpyridylâ€“Bipyridyl Complexes. ChemSusChem, 2017, 10, 551-561.	3.6	11

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73	Raman Spectroscopy, Biochemical Applications. , 2017, , 906-914.		0
74	The role of local and remote amino acid substitutions for optimizing fluorescence in bacteriophytochromes: A case study on iRFP. Scientific Reports, 2016, 6, 28444.	1.6	19
75	Substrateâ€“Protein Interactions of Type II NADH:Quinone Oxidoreductase from Escherichia coli. Biochemistry, 2016, 55, 2722-2734.	1.2	13
76	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.	2.0	73
77	Nickel electrodes as a cheap and versatile platform for studying structure and function of immobilized redox proteins. Analytica Chimica Acta, 2016, 941, 35-40.	2.6	17
78	Domain motions and electron transfer dynamics in 2Fe-superoxide reductase. Physical Chemistry Chemical Physics, 2016, 18, 23053-23066.	1.3	5
79	Changing the chemical and physical properties of high valent heterobimetallic bis-(Î¼-oxido) Cuâ€“Ni complexes by ligand effects. Dalton Transactions, 2016, 45, 15994-16000.	1.6	10
80	When the inhibitor tells more than the substrate: the cyanide-bound state of a carbon monoxide dehydrogenase. Chemical Science, 2016, 7, 3162-3171.	3.7	22
81	Vibrational spectroscopy reveals the initial steps of biological hydrogen evolution. Chemical Science, 2016, 7, 6746-6752.	3.7	52
82	Using Separable Nonnegative Matrix Factorization Techniques for the Analysis of Time-Resolved Raman Spectra. Applied Spectroscopy, 2016, 70, 1464-1475.	1.2	19
83	Monitoring the Transmembrane Proton Gradient Generated by Cytochrome bo₃ in Tethered Bilayer Lipid Membranes Using SEIRA Spectroscopy. Journal of Physical Chemistry B, 2016, 120, 2249-2256.	1.2	33
84	Dual-wavelength photoacoustic imaging of a photoswitchable reporter protein. Proceedings of SPIE, 2016, , .	0.8	8
85	Polarization- and Wavelength-Dependent Surface-Enhanced Raman Spectroscopy Using Optically Anisotropic Rippled Substrates for Sensing. ACS Sensors, 2016, 1, 318-323.	4.0	36
86	A Red/Green Cyanobacteriochrome Sustains Its Color Despite a Change in the Bilin Chromophoreâ€™s Protonation State. Biochemistry, 2015, 54, 5839-5848.	1.2	44
87	Mimicking Tyrosine Phosphorylation in Human Cytochromeâ€…c by the Evolved tRNA Synthetase Technique. Chemistry - A European Journal, 2015, 21, 15004-15012.	1.7	32
88	Conformational heterogeneity of the Pfr chromophore in plant and cyanobacterial phytochromes. Frontiers in Molecular Biosciences, 2015, 2, 37.	1.6	26
89	Orientation-Controlled Electrocatalytic Efficiency of an Adsorbed Oxygen-Tolerant Hydrogenase. PLoS ONE, 2015, 10, e0143101.	1.1	29
90	Reversible Active Site Sulfoxygenation Can Explain the Oxygen Tolerance of a NAD⁺-Reducing [NiFe] Hydrogenase and Its Unusual Infrared Spectroscopic Properties. Journal of the American Chemical Society, 2015, 137, 2555-2564.	6.6	35

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91	Orthogonal Translation Meets Electron Transfer: In Vivo Labeling of Cytochrome c for Probing Local Electric Fields. ChemBioChem, 2015, 16, 742-745.	1.3	16
92	Nature of the Surface-Exposed Cytochromeâ€“Electrode Interactions in Electroactive Biofilms of Desulfuromonas acetoxidans. Journal of Physical Chemistry B, 2015, 119, 7968-7974.	1.2	12
93	Resonance Raman Spectroscopic Analysis of the [NiFe] Active Site and the Proximal [4Fe-3S] Cluster of an O₂-Tolerant Membrane-Bound Hydrogenase in the Crystalline State. Journal of Physical Chemistry B, 2015, 119, 13785-13796.	1.2	30
94	Concepts in bio-molecular spectroscopy: vibrational case studies on metalloenzymes. Physical Chemistry Chemical Physics, 2015, 17, 18222-18237.	1.3	14
95	Surface enhanced vibrational spectroscopic evidence for an alternative DNA-independent redox activation of endonuclease III. Chemical Communications, 2015, 51, 3255-3257.	2.2	17
96	Photochemical chromophore isomerization in histidine kinase rhodopsin HKR1. FEBS Letters, 2015, 589, 1067-1071.	1.3	15
97	A protonation-coupled feedback mechanism controls the signalling process in bathy phytochromes. Nature Chemistry, 2015, 7, 423-430.	6.6	74
98	Lightâ€“Dark Adaptation of Channelrhodopsin Involves Photoconversion between the all-trans and 13-cis Retinal Isomers. Biochemistry, 2015, 54, 5389-5400.	1.2	54
99	Surface enhanced resonance Raman detection of a catalytic intermediate of DyP-type peroxidase. Physical Chemistry Chemical Physics, 2015, 17, 11954-11957.	1.3	12
100	SERR Spectroelectrochemical Study of Cytochrome cd1 Nitrite Reductase Co-Immobilized with Physiological Redox Partner Cytochrome c552 on Biocompatible Metal Electrodes. PLoS ONE, 2015, 10, e0129940.	1.1	14
101	Escherichia coli RIC Is Able to Donate Iron to Iron-Sulfur Clusters. PLoS ONE, 2014, 9, e95222.	1.1	31
102	ATP-induced electron transfer by redox-selective partner recognition. Nature Communications, 2014, 5, 4626.	5.8	20
103	More than fine tuning. Science, 2014, 346, 1456-1457.	6.0	6
104	A Selfâ€Improved Waterâ€Oxidation Catalyst: Is One Site Really Enough?. Angewandte Chemie - International Edition, 2014, 53, 205-209.	7.2	82
105	NirN Protein from Pseudomonas aeruginosa is a Novel Electron-bifurcating Dehydrogenase Catalyzing the Last Step of Heme d1 Biosynthesis. Journal of Biological Chemistry, 2014, 289, 30753-30762.	1.6	26
106	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.	7.2	57
107	Reversible [4Fe-3S] cluster morphing in an O2-tolerant [NiFe] hydrogenase. Nature Chemical Biology, 2014, 10, 378-385.	3.9	85
108	Resonance Raman Spectroscopy on [NiFe] Hydrogenase Provides Structural Insights into Catalytic Intermediates and Reactions. Journal of the American Chemical Society, 2014, 136, 9870-9873.	6.6	60

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109	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.	1.3	38
110	Structural Parameters Controlling the Fluorescence Properties of Phytochromes. Biochemistry, 2014, 53, 20-29.	1.2	32
111	Adhesion-Induced Domain Formation in Multicomponent Membranes. Biophysical Journal, 2014, 106, 287a.	0.2	1
112	Reductive activation and structural rearrangement in superoxide reductase: a combined infrared spectroscopic and computational study. Physical Chemistry Chemical Physics, 2014, 16, 14220-14230.	1.3	10
113	Metal-induced histidine deprotonation in biocatalysis? Experimental and theoretical insights into superoxide reductase. RSC Advances, 2014, 4, 54091-54095.	1.7	10
114	Potentialâ€Dependent Surfaceâ€Enhanced Resonance Raman Spectroscopy at Nanostructured TiO₂: A Case Study on Cytochrome b₅. Small, 2013, 9, 4175-4181.	5.2	63
115	Effect of the Protonation Degree of a Self-Assembled Monolayer on the Immobilization Dynamics of a [NiFe] Hydrogenase. Langmuir, 2013, 29, 673-682.	1.6	22
116	Combining Spectroscopy and Theory to Evaluate Structural Models of Metalloenzymes: A Case Study on the Soluble [NiFe] Hydrogenase from Ralstonia eutropha. ChemPhysChem, 2013, 14, 185-191.	1.0	8
117	Catalytic efficiency of dehaloperoxidase A is controlled by electrostatics â€“ application of the vibrational Stark effect to understand enzyme kinetics. Biochemical and Biophysical Research Communications, 2013, 430, 1011-1015.	1.0	13
118	A Highâ€Valent Heterobimetallic [Cu^{III}(μ-O)₂Ni^{III}]²⁺ Core with Nucleophilic Oxo Groups. Angewandte Chemie - International Edition, 2013, 52, 5622-5626.	7.2	41
119	Magnetic Silver Hybrid Nanoparticles for Surface-Enhanced Resonance Raman Spectroscopic Detection and Decontamination of Small Toxic Molecules. ACS Nano, 2013, 7, 3212-3220.	7.3	71
120	Unraveling the Interfacial Electron Transfer Dynamics of Electroactive Microbial Biofilms Using Surfaceâ€Enhanced Raman Spectroscopy. ChemSusChem, 2013, 6, 487-492.	3.6	32
121	Disentangling Electron Tunneling and Protein Dynamics of Cytochrome c through a Rationally Designed Surface Mutation. Journal of Physical Chemistry B, 2013, 117, 6061-6068.	1.2	26
122	Electrocatalytic Oxygen Evolution Reaction on Iridium Oxide Model Film Catalysts: Influence of Oxide Type and Catalyst Substrate Interactions. ECS Transactions, 2013, 58, 39-51.	0.3	32
123	Photoconversion Mechanism of the Second GAF Domain of Cyanobacteriochrome AnPixJ and the Cofactor Structure of Its Green-Absorbing State. Biochemistry, 2013, 52, 4871-4880.	1.2	68
124	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.	1.6	45
125	Structure of the Biliverdin Cofactor in the Pfr State of Bathy and Prototypical Phytochromes. Journal of Biological Chemistry, 2013, 288, 16800-16814.	1.6	58
126	Resonance Raman Spectroscopy as a Tool to Monitor the Active Site of Hydrogenases. Angewandte Chemie - International Edition, 2013, 52, 5162-5165.	7.2	53

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127	A Photochromic Histidine Kinase Rhodopsin (HKR1) That Is Bimodally Switched by Ultraviolet and Blue Light. Journal of Biological Chemistry, 2012, 287, 40083-40090.	1.6	106
128	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.	1.8	59
129	Mapping local electric fields in proteins at biomimetic interfaces. Chemical Communications, 2012, 48, 70-72.	2.2	23
130	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.	1.5	45
131	Perturbation of the Redox Site Structure of Cytochrome c Variants upon Tyrosine Nitration. Journal of Physical Chemistry B, 2012, 116, 5694-5702.	1.2	36
132	Lewis Acid Trapping of an Elusive Copperâ€“Tosylnitrene Intermediate Using Scandium Triflate. Journal of the American Chemical Society, 2012, 134, 14710-14713.	6.6	120
133	Complex Formation with the Activator RACo Affects the Corrinoid Structure of CoFeSP. Biochemistry, 2012, 51, 7040-7042.	1.2	14
134	Role of Met80 and Tyr67 in the Low-pH Conformational Equilibria of Cytochrome c. Biochemistry, 2012, 51, 5967-5978.	1.2	40
135	Revealing the Absolute Configuration of the CO and CN^{â^’} Ligands at the Active Site of a [NiFe] Hydrogenase. ChemPhysChem, 2012, 13, 3852-3856.	1.0	20
136	Copper Complexes of â€œSuperpodalâ€•Amine Ligands and Reactivity Studies towards Dioxygen. European Journal of Inorganic Chemistry, 2012, 2012, 3000-3013.	1.0	10
137	Analyzing the catalytic processes of immobilized redox enzymes by vibrational spectroscopies. IUBMB Life, 2012, 64, 455-464.	1.5	33
138	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.	7.2	60
139	NAD(H)â€coupled hydrogen cycling â€“ structureâ€“function relationships of bidirectional [NiFe] hydrogenases. FEBS Letters, 2012, 586, 545-556.	1.3	68
140	Insights into the structure of the active site of the O2-tolerant membrane bound [NiFe] hydrogenase of R. eutropha H16 by molecular modelling. Physical Chemistry Chemical Physics, 2011, 13, 16146.	1.3	16
141	Dinuclear Copper Complexes Based on Parallel Î²-Diiminato Binding Sites and their Reactions with O₂: Evidence for a Cuâ^’Oâ^’Cu Entity. Inorganic Chemistry, 2011, 50, 2133-2142.	1.9	47
142	Electric-field effects on the interfacial electron transfer and protein dynamics of cytochrome c. Journal of Electroanalytical Chemistry, 2011, 660, 367-376.	1.9	38
143	Structure of the Chromophore Binding Pocket in the Pr State of Plant Phytochrome phyA. Journal of Physical Chemistry B, 2011, 115, 1220-1231.	1.2	38
144	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.	2.2	64

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145	Spectroscopic and Photochemical Characterization of the Redâ€Light Sensitive Photosensory Module of Cph2 from Synechocystis PCC 6803. Photochemistry and Photobiology, 2011, 87, 160-173.	1.3	41
146	The chromophore structure of the long-lived intermediate of the C128T channelrhodopsin-2 variant. FEBS Letters, 2011, 585, 3998-4001.	1.3	19
147	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.	1.2	39
148	Desulforubrerythrin from Campylobacter jejuni, a novel multidomain protein. Journal of Biological Inorganic Chemistry, 2011, 16, 501-510.	1.1	15
149	In Situ Spectroelectrochemical Investigation of Electrocatalytic Microbial Biofilms by Surfaceâ€Enhanced Resonance Raman Spectroscopy. Angewandte Chemie - International Edition, 2011, 50, 2625-2627.	7.2	114
150	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.	7.2	48
151	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.	1.1	55
152	Elucidating photoinduced structural changes in phytochromes by the combined application of resonance Raman spectroscopy and theoretical methods. Journal of Molecular Structure, 2011, 993, 15-25.	1.8	30
153	Characterization and Crystallization of Mouse Aldehyde Oxidase 3: From Mouse Liver toEscherichia coliHeterologous Protein Expression. Drug Metabolism and Disposition, 2011, 39, 1939-1945.	1.7	29
154	Mesoporous Indium Tin Oxide as a Novel Platform for Bioelectronics. ChemCatChem, 2010, 2, 839-845.	1.8	49
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