

Peter Hildebrandt

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.

394
papers

13,986
citations

60
h-index

94
g-index

420
ext. papers

15,136
ext. citations

6.2
avg, IF

6.29
L-index

#	Paper	IF	Citations
394	Unusual structures and unknown roles of FeS clusters in metalloenzymes seen from a resonance Raman spectroscopic perspective. <i>Coordination Chemistry Reviews</i> , 2022 , 452, 214287	23.2	1
393	Generation of a Fe_2O_2 -hydroperoxo FeFe and a Fe_2O_2 -peroxo FeFe Complex.. <i>Nature Communications</i> , 2022 , 13, 1376	17.4	1
392	Photoinduced reaction mechanisms in prototypical and bathy phytochromes.. <i>Physical Chemistry Chemical Physics</i> , 2022 , 24, 11967-11978	3.6	0
391	Electron transfer between cytochrome c and microsomal monooxygenase generates reactive oxygen species that accelerates apoptosis. <i>Redox Biology</i> , 2022 , 53, 102340	11.3	1
390	The influence of secondary interactions on the $[\text{Ni}(\text{O})]$ mediated aldehyde oxidation reactions.. <i>Journal of Inorganic Biochemistry</i> , 2021 , 227, 111668	4.2	0
389	On the Role of the Conserved Histidine at the Chromophore Isomerization Site in Phytochromes. <i>Journal of Physical Chemistry B</i> , 2021 ,	3.4	1
388	Stable, but still reactive Ni^{II} investigations on the effects of Lewis acid binding on copper nitrene intermediates. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2021 , 647, 1495-1502	1.3	1
387	A Pseudotetrahedral Terminal Oxoiron(IV) Complex: Mechanistic Promiscuity in C-H Bond Oxidation Reactions. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6752-6756	16.4	7
386	A bioinspired oxoiron(IV) motif supported on a NS macrocyclic ligand. <i>Chemical Communications</i> , 2021 , 57, 2947-2950	5.8	3
385	Light- and temperature-dependent dynamics of chromophore and protein structural changes in bathy phytochrome Agp2. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 18197-18205	3.6	2
384	A Resonance Raman Marker Band Characterizes the Slow and Fast Form of Cytochrome Oxidase. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2769-2776	16.4	4
383	A Pseudotetrahedral Terminal Oxoiron(IV) Complex: Mechanistic Promiscuity in C-H Bond Oxidation Reactions. <i>Angewandte Chemie</i> , 2021 , 133, 6826-6830	3.6	2
382	Molecular Details on Multiple Cofactor Containing Redox Metalloproteins Revealed by Infrared and Resonance Raman Spectroscopies. <i>Molecules</i> , 2021 , 26,	4.8	1
381	Spektroskopische Charakterisierung eines reaktiven $[\text{Cu}_2(\text{EDH})_2]^{2+}$ Intermediates in Cu/TEMPO-katalysierten aeroben Alkoholoxidationen. <i>Angewandte Chemie</i> , 2021 , 133, 23201	3.6	
380	Local Electric Field Changes during the Photoconversion of the Bathy Phytochrome Agp2. <i>Biochemistry</i> , 2021 , 60, 2967-2977	3.2	2
379	Spectroscopic Characterization of a Reactive $[\text{Cu}(\text{EDH})]$ Intermediate in Cu/TEMPO Catalyzed Aerobic Alcohol Oxidation Reaction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 23018-23024	16.4	1
378	Structural insights into photoactivation and signalling in plant phytochromes. <i>Nature Plants</i> , 2020 , 6, 581-588	11.5	8

377	Stoichiometric Formation of an Oxoiron(IV) Complex by a Soluble Methane Monooxygenase Type Activation of O at an Iron(II)-Cyclam Center. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5924-5928	16.4	19
376	Distinct chromophore-protein environments enable asymmetric activation of a bacteriophytochrome-activated diguanylate cyclase. <i>Journal of Biological Chemistry</i> , 2020 , 295, 539-551	5.4	7
375	Intramolecular Proton Transfer Controls Protein Structural Changes in Phytochrome. <i>Biochemistry</i> , 2020 , 59, 1023-1037	3.2	7
374	Immobilized dye-decolorizing peroxidase (DyP) and directed evolution variants for hydrogen peroxide biosensing. <i>Biosensors and Bioelectronics</i> , 2020 , 153, 112055	11.8	7
373	The large subunit of the regulatory [NiFe]-hydrogenase from - a minimal hydrogenase?. <i>Chemical Science</i> , 2020 , 11, 5453-5465	9.4	13
372	Catalytic dioxygen reduction mediated by a tetranuclear cobalt complex supported on a stannoxane core. <i>Dalton Transactions</i> , 2020 , 49, 6065-6073	4.3	1
371	The Lumi-R Intermediates of Prototypical Phytochromes. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 4044-4054	5.4	5
370	Red, Orange, Green: Light- and Temperature-Dependent Color Tuning in a Cyanobacteriochrome. <i>Biochemistry</i> , 2020 , 59, 509-519	3.2	7
369	Probing Structure and Reaction Dynamics of Proteins Using Time-Resolved Resonance Raman Spectroscopy. <i>Chemical Reviews</i> , 2020 , 120, 3577-3630	68.1	21
368	Assembly as a Tool to Investigate Catalytic Intermediates of [NiFe]-Hydrogenase. <i>ACS Catalysis</i> , 2020 , 10, 13890-13894	13.1	7
367	Hydroxy-bridged resting states of a [NiFe]-hydrogenase unraveled by cryogenic vibrational spectroscopy and DFT computations. <i>Chemical Science</i> , 2020 , 12, 2189-2197	9.4	7
366	The C-Terminal VPRTES Tail of LL-37 Influences the Mode of Attachment to a Lipid Bilayer and Antimicrobial Activity. <i>Biochemistry</i> , 2019 , 58, 2447-2462	3.2	8
365	Photoreactions of the Histidine Kinase Rhodopsin Ot-HKR from the Marine Picoalga <i>Ostreococcus tauri</i> . <i>Biochemistry</i> , 2019 , 58, 1878-1891	3.2	2
364	Influence of Mesityl and Thiophene Peripheral Substituents on Surface Attachment, Redox Chemistry, and ORR Activity of Molecular Iron Porphyrin Catalysts on Electrodes. <i>Inorganic Chemistry</i> , 2019 , 58, 10637-10647	5.1	8
363	Gradient metal nanoislands as a unified surface enhanced Raman scattering and surface enhanced infrared absorption platform for analytics. <i>Analyst, The</i> , 2019 , 144, 5271-5276	5	10
362	MerMAIDs: a family of metagenomically discovered marine anion-conducting and intensely desensitizing channelrhodopsins. <i>Nature Communications</i> , 2019 , 10, 3315	17.4	33
361	Role of the Propionic Side Chains for the Photoconversion of Bacterial Phytochromes. <i>Biochemistry</i> , 2019 , 58, 3504-3519	3.2	8
360	Spectroscopic, thermodynamic and computational evidence of the locations of the FADs in the nitrogen fixation-associated electron transfer flavoprotein. <i>Chemical Science</i> , 2019 , 10, 7762-7772	9.4	7

359	Accelerated Photo-Induced Degradation of Benzidine-p-Aminothiophenolate Immobilized at Light-Enhancing TiO Nanotube Electrodes. <i>Chemistry - A European Journal</i> , 2019 , 25, 16048	4.8	5
358	Chromophore binding to two cysteines increases quantum yield of near-infrared fluorescent proteins. <i>Scientific Reports</i> , 2019 , 9, 1866	4.9	8
357	On the pH-Modulated Ru-Based Prodrug Activation Mechanism. <i>Inorganic Chemistry</i> , 2019 , 58, 1216-1223	3.1	7
356	Improved Method for the Incorporation of Heme Cofactors into Recombinant Proteins Using <i>Escherichia coli</i> Nissle 1917. <i>Biochemistry</i> , 2018 , 57, 2747-2755	3.2	16
355	Controlled Microwave-Hydrolyzed Starch as a Stabilizer for Green Formulation of Aqueous Gold Nanoparticle Ink for Flexible Printed Electronics. <i>ACS Applied Nano Materials</i> , 2018 , 1, 1247-1256	5.6	19
354	Monitoring the Orientational Changes of Alamethicin during Incorporation into Bilayer Lipid Membranes. <i>Langmuir</i> , 2018 , 34, 2373-2385	4	25
353	The Photoconversion of Phytochrome Includes an Unproductive Shunt Reaction Pathway. <i>ChemPhysChem</i> , 2018 , 19, 566-570	3.2	23
352	Spectroelectrochemical insights into structural and redox properties of immobilized endonuclease III and its catalytically inactive mutant. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 188, 149-154	4.4	5
351	Quantification of Hv1-induced proton translocation by a lipid-coupled Oregon Green 488-based assay. <i>Analytical and Bioanalytical Chemistry</i> , 2018 , 410, 6497-6505	4.4	2
350	Robust electrografted interfaces on metal oxides for electrocatalysis: an in situ spectroelectrochemical study. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15200-15212	13	21
349	Long-Range Modulations of Electric Fields in Proteins. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 8330-8342	3.4	23
348	Structural snapshot of a bacterial phytochrome in its functional intermediate state. <i>Nature Communications</i> , 2018 , 9, 4912	17.4	45
347	Plasmonic Cu/CuCl/Cu ₂ S/Ag and Cu/CuCl/Cu ₂ S/Au Supports with Peroxidase-Like Activity: Insights from Surface Enhanced Raman Spectroscopy. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1541-1550	3.1	2
346	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. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23380-23391	9.5	17
345	An S-Oxygenated [NiFe] Complex Modelling Sulfenate Intermediates of an O ₂ -Tolerant Hydrogenase. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2208-2211	16.4	19
344	Ein S-oxygenierter [NiFe]-Komplex als Modell für Sulfenat- intermediate einer O ₂ -toleranten Hydrogenase. <i>Angewandte Chemie</i> , 2017 , 129, 2243-2247	3.6	1
343	High Performance Reduction of HO ₂ with an Electron Transport Decaheme Cytochrome on a Porous ITO Electrode. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3324-3327	16.4	34
342	Assembly of photoactive orange carotenoid protein from its domains unravels a carotenoid shuttle mechanism. <i>Photosynthesis Research</i> , 2017 , 133, 327-341	3.7	36

341	An expanded genetic code for probing the role of electrostatics in enzyme catalysis by vibrational Stark spectroscopy. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017 , 1861, 3053-3059	4	8
340	Common Structural Elements in the Chromophore Binding Pocket of the Pfr State of Bathy Phytochromes. <i>Photochemistry and Photobiology</i> , 2017 , 93, 724-732	3.6	17
339	Characterization of anisotropically shaped silver nanoparticle arrays via spectroscopic ellipsometry supported by numerical optical modeling. <i>Applied Surface Science</i> , 2017 , 421, 460-464	6.7	8
338	A New Domain of Reactivity for High-Valent Dinuclear [M(EO) M'] Complexes in Oxidation Reactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 297-301	16.4	18
337	Structural and Vibrational Characterization of the Chromophore Binding Site of Bacterial Phytochrome Agp1. <i>Photochemistry and Photobiology</i> , 2017 , 93, 713-723	3.6	13
336	Carbon Monoxide Dehydrogenase Reduces Cyanate to Cyanide. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7398-7401	16.4	8
335	Reversible light-dependent molecular switches on Ag/AgCl nanostructures. <i>Nanoscale</i> , 2017 , 9, 8380-8387	9.7	10
334	Die Kohlenmonoxid-Dehydrogenase reduziert Cyanat zu Cyanid. <i>Angewandte Chemie</i> , 2017 , 129, 7504-7507	5.0	
333	Structural communication between the chromophore-binding pocket and the N-terminal extension in plant phytochrome phyB. <i>FEBS Letters</i> , 2017 , 591, 1258-1265	3.8	6
332	Switchable Redox Chemistry of the Hexameric Tyrosine-Coordinated Heme Protein. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3955-3964	3.4	5
331	A New Domain of Reactivity for High-Valent Dinuclear [M(EO)2M'] Complexes in Oxidation Reactions. <i>Angewandte Chemie</i> , 2017 , 129, 303-307	3.6	4
330	Protonation-Dependent Structural Heterogeneity in the Chromophore Binding Site of Cyanobacterial Phytochrome Cph1. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 47-57	3.4	41
329	Determination of the Local Electric Field at Au/SAM Interfaces Using the Vibrational Stark Effect. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 22274-22285	3.8	30
328	Temperature Dependence of the Catalytic Two- versus Four-Electron Reduction of Dioxygen by a Hexanuclear Cobalt Complex. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15033-15042	16.4	28
327	Raman Spectroscopy, Biochemical Applications 2017 , 906-914		
326	Redox-dependent substrate-cofactor interactions in the Michaelis-complex of a flavin-dependent oxidoreductase. <i>Nature Communications</i> , 2017 , 8,	17.4	17
325	Electrochemical and Resonance Raman Spectroscopic Studies of Water-Oxidizing Ruthenium Terpyridyl-Bipyridyl Complexes. <i>ChemSusChem</i> , 2017 , 10, 551-561	8.3	11
324	When the inhibitor tells more than the substrate: the cyanide-bound state of a carbon monoxide dehydrogenase. <i>Chemical Science</i> , 2016 , 7, 3162-3171	9.4	15

323	Vibrational spectroscopy reveals the initial steps of biological hydrogen evolution. <i>Chemical Science</i> , 2016 , 7, 6746-6752	9.4	44
322	Using Separable Nonnegative Matrix Factorization Techniques for the Analysis of Time-Resolved Raman Spectra. <i>Applied Spectroscopy</i> , 2016 , 70, 1464-75	3.1	13
321	Monitoring the Transmembrane Proton Gradient Generated by Cytochrome bo3 in Tethered Bilayer Lipid Membranes Using SEIRA Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 2249-56	3.4	30
320	Dual-wavelength photoacoustic imaging of a photoswitchable reporter protein 2016 ,		7
319	Polarization- and Wavelength-Dependent Surface-Enhanced Raman Spectroscopy Using Optically Anisotropic Rippled Substrates for Sensing. <i>ACS Sensors</i> , 2016 , 1, 318-323	9.2	29
318	The role of local and remote amino acid substitutions for optimizing fluorescence in bacteriophytochromes: A case study on iRFP. <i>Scientific Reports</i> , 2016 , 6, 28444	4.9	16
317	Substrate-Protein Interactions of Type II NADH:Quinone Oxidoreductase from Escherichia coli. <i>Biochemistry</i> , 2016 , 55, 2722-34	3.2	11
316	Structure of the Full-Length Bacteriophytochrome from the Plant Pathogen Xanthomonas campestris Provides Clues to its Long-Range Signaling Mechanism. <i>Journal of Molecular Biology</i> , 2016 , 428, 3702-20	6.5	53
315	Nickel electrodes as a cheap and versatile platform for studying structure and function of immobilized redox proteins. <i>Analytica Chimica Acta</i> , 2016 , 941, 35-40	6.6	12
314	Domain motions and electron transfer dynamics in 2Fe-superoxide reductase. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 23053-66	3.6	4
313	Changing the chemical and physical properties of high valent heterobimetallic bis-(μ -oxido) Cu-Ni complexes by ligand effects. <i>Dalton Transactions</i> , 2016 , 45, 15994-16000	4.3	8
312	Orthogonal translation meets electron transfer: in vivo labeling of cytochrome c for probing local electric fields. <i>ChemBioChem</i> , 2015 , 16, 742-5	3.8	13
311	Nature of the Surface-Exposed Cytochrome-Electrode Interactions in Electroactive Biofilms of Desulfuromonas acetoxidans. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 7968-74	3.4	9
310	Resonance Raman Spectroscopic Analysis of the [NiFe] Active Site and the Proximal [4Fe-3S] Cluster of an O ₂ -Tolerant Membrane-Bound Hydrogenase in the Crystalline State. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 13785-96	3.4	25
309	Concepts in bio-molecular spectroscopy: vibrational case studies on metalloenzymes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 18222-37	3.6	13
308	Surface enhanced vibrational spectroscopic evidence for an alternative DNA-independent redox activation of endonuclease III. <i>Chemical Communications</i> , 2015 , 51, 3255-7	5.8	14
307	Photochemical chromophore isomerization in histidine kinase rhodopsin HKR1. <i>FEBS Letters</i> , 2015 , 589, 1067-71	3.8	12
306	A protonation-coupled feedback mechanism controls the signalling process in bathy phytochromes. <i>Nature Chemistry</i> , 2015 , 7, 423-30	17.6	58

305	Light-Dark Adaptation of Channelrhodopsin Involves Photoconversion between the all-trans and 13-cis Retinal Isomers. <i>Biochemistry</i> , 2015 , 54, 5389-400	3.2	42
304	Surface enhanced resonance Raman detection of a catalytic intermediate of DyP-type peroxidase. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 11954-7	3.6	10
303	A Red/Green Cyanobacteriochrome Sustains Its Color Despite a Change in the Bilin Chromophore's Protonation State. <i>Biochemistry</i> , 2015 , 54, 5839-48	3.2	33
302	Mimicking Tyrosine Phosphorylation in Human Cytochrome c by the Evolved tRNA Synthetase Technique. <i>Chemistry - A European Journal</i> , 2015 , 21, 15004-12	4.8	27
301	Conformational heterogeneity of the Pfr chromophore in plant and cyanobacterial phytochromes. <i>Frontiers in Molecular Biosciences</i> , 2015 , 2, 37	5.6	20
300	Orientation-Controlled Electrocatalytic Efficiency of an Adsorbed Oxygen-Tolerant Hydrogenase. <i>PLoS ONE</i> , 2015 , 10, e0143101	3.7	22
299	Reversible active site sulfoxxygenation can explain the oxygen tolerance of a NAD ⁺ -reducing [NiFe] hydrogenase and its unusual infrared spectroscopic properties. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2555-64	16.4	30
298	SERR Spectroelectrochemical Study of Cytochrome cd1 Nitrite Reductase Co-Immobilized with Physiological Redox Partner Cytochrome c552 on Biocompatible Metal Electrodes. <i>PLoS ONE</i> , 2015 , 10, e0129940	3.7	12
297	Magnetic titanium dioxide nanocomposites for surface-enhanced resonance Raman spectroscopic determination and degradation of toxic anilines and phenols. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 2481-4	16.4	49
296	A Self-Improved Water-Oxidation Catalyst: Is One Site Really Enough?. <i>Angewandte Chemie</i> , 2014 , 126, 209-213	3.6	19
295	Reversible [4Fe-3S] cluster morphing in an O ₂ -tolerant [NiFe] hydrogenase. <i>Nature Chemical Biology</i> , 2014 , 10, 378-85	11.7	70
294	Resonance Raman spectroscopy on [NiFe] hydrogenase provides structural insights into catalytic intermediates and reactions. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9870-3	16.4	51
293	Voltage-dependent structural changes of the membrane-bound anion channel hVDAC1 probed by SEIRA and electrochemical impedance spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 9546-55	3.6	33
292	Structural parameters controlling the fluorescence properties of phytochromes. <i>Biochemistry</i> , 2014 , 53, 20-9	3.2	26
291	Reductive activation and structural rearrangement in superoxide reductase: a combined infrared spectroscopic and computational study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14220-30	3.6	9
290	Metal-induced histidine deprotonation in biocatalysis? Experimental and theoretical insights into superoxide reductase. <i>RSC Advances</i> , 2014 , 4, 54091-54095	3.7	8
289	Magnetische TiO ₂ -Nanokomposite zur spektroskopischen Identifizierung und zum Abbau toxischer Aniline und Phenole. <i>Angewandte Chemie</i> , 2014 , 126, 2514-2517	3.6	4
288	Escherichia coli RIC is able to donate iron to iron-sulfur clusters. <i>PLoS ONE</i> , 2014 , 9, e95222	3.7	24

287	ATP-induced electron transfer by redox-selective partner recognition. <i>Nature Communications</i> , 2014 , 5, 4626	17.4	15
286	Biochemistry. More than fine tuning. <i>Science</i> , 2014 , 346, 1456-7	33.3	6
285	A self-improved water-oxidation catalyst: is one site really enough?. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 205-9	16.4	78
284	NirN protein from <i>Pseudomonas aeruginosa</i> is a novel electron-bifurcating dehydrogenase catalyzing the last step of heme d1 biosynthesis. <i>Journal of Biological Chemistry</i> , 2014 , 289, 30753-30762	5.4	17
283	Potential-dependent surface-enhanced resonance Raman spectroscopy at nanostructured TiO ₂ : a case study on cytochrome b5. <i>Small</i> , 2013 , 9, 4175-81	11	51
282	A High-Valent Heterobimetallic [Cu ^{III} (EO)2Ni ^{III}] ²⁺ Core with Nucleophilic Oxo Groups. <i>Angewandte Chemie</i> , 2013 , 125, 5732-5736	3.6	12
281	Effect of the protonation degree of a self-assembled monolayer on the immobilization dynamics of a [NiFe] hydrogenase. <i>Langmuir</i> , 2013 , 29, 673-82	4	21
280	Combining spectroscopy and theory to evaluate structural models of metalloenzymes: a case study on the soluble [NiFe] hydrogenase from <i>Ralstonia eutropha</i> . <i>ChemPhysChem</i> , 2013 , 14, 185-91	3.2	7
279	Catalytic efficiency of dehaloperoxidase A is controlled by electrostatics--application of the vibrational Stark effect to understand enzyme kinetics. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 430, 1011-5	3.4	10
278	A high-valent heterobimetallic [Cu(III)(EO)2Ni(III)] ²⁺ core with nucleophilic oxo groups. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5622-6	16.4	32
277	Magnetic silver hybrid nanoparticles for surface-enhanced resonance Raman spectroscopic detection and decontamination of small toxic molecules. <i>ACS Nano</i> , 2013 , 7, 3212-20	16.7	65
276	Unraveling the interfacial electron transfer dynamics of electroactive microbial biofilms using surface-enhanced Raman spectroscopy. <i>ChemSusChem</i> , 2013 , 6, 487-92	8.3	30
275	Disentangling electron tunneling and protein dynamics of cytochrome c through a rationally designed surface mutation. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 6061-8	3.4	22
274	Electrocatalytic Oxygen Evolution Reaction on Iridium Oxide Model Film Catalysts: Influence of Oxide Type and Catalyst Substrate Interactions. <i>ECS Transactions</i> , 2013 , 58, 39-51	1	28
273	Photoconversion mechanism of the second GAF domain of cyanobacteriochrome AnPixJ and the cofactor structure of its green-absorbing state. <i>Biochemistry</i> , 2013 , 52, 4871-80	3.2	59
272	Unusual spectral properties of bacteriophytochrome Agp2 result from a deprotonation of the chromophore in the red-absorbing form Pr. <i>Journal of Biological Chemistry</i> , 2013 , 288, 31738-51	5.4	40
271	Structure of the biliverdin cofactor in the Pfr state of bathy and prototypical phytochromes. <i>Journal of Biological Chemistry</i> , 2013 , 288, 16800-16814	5.4	48
270	Resonanz-Raman-Spektroskopie als Methode zur Untersuchung des aktiven Zentrums von Hydrogenasen. <i>Angewandte Chemie</i> , 2013 , 125, 5267-5270	3.6	12

269	Resonance Raman spectroscopy as a tool to monitor the active site of hydrogenases. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 5162-5	16.4	46
268	Mapping local electric fields in proteins at biomimetic interfaces. <i>Chemical Communications</i> , 2012 , 48, 70-2	5.8	19
267	Electric-Field Control of the pH-Dependent Redox Process of Cytochrome c Immobilized on a Gold Electrode. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13038-13044	3.8	44
266	Perturbation of the redox site structure of cytochrome c variants upon tyrosine nitration. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5694-702	3.4	36
265	Lewis acid trapping of an elusive copper-tosylnitrene intermediate using scandium triflate. <i>Journal of the American Chemical Society</i> , 2012 , 134, 14710-3	16.4	99
264	Complex formation with the activator RACo affects the corrinoid structure of CoFeSP. <i>Biochemistry</i> , 2012 , 51, 7040-2	3.2	13
263	Role of Met80 and Tyr67 in the low-pH conformational equilibria of cytochrome c. <i>Biochemistry</i> , 2012 , 51, 5967-78	3.2	34
262	Revealing the absolute configuration of the CO and CN- ligands at the active site of a [NiFe] hydrogenase. <i>ChemPhysChem</i> , 2012 , 13, 3852-6	3.2	17
261	Copper Complexes of BuperpodalAmine Ligands and Reactivity Studies towards Dioxygen. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 3000-3013	2.3	9
260	Analyzing the catalytic processes of immobilized redox enzymes by vibrational spectroscopies. <i>IUBMB Life</i> , 2012 , 64, 455-64	4.7	30
259	Kombinierte elektrochemische und oberflächenverstärkte IR-absorptionsspektroskopische Untersuchung von Gramicidin A in trägerfixierten Lipiddoppelschichtmembranen. <i>Angewandte Chemie</i> , 2012 , 124, 8238-8241	3.6	1
258	Combined electrochemistry and surface-enhanced infrared absorption spectroscopy of gramicidin A incorporated into tethered bilayer lipid membranes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8114-7	16.4	52
257	NAD(H)-coupled hydrogen cycling - structure-function relationships of bidirectional [NiFe] hydrogenases. <i>FEBS Letters</i> , 2012 , 586, 545-56	3.8	60
256	A photochromic histidine kinase rhodopsin (HKR1) that is bimodally switched by ultraviolet and blue light. <i>Journal of Biological Chemistry</i> , 2012 , 287, 40083-90	5.4	93
255	Vibrational stark effect of the electric-field reporter 4-mercaptobenzonitrile as a tool for investigating electrostatics at electrode/SAM/solution interfaces. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 7466-82	6.3	50
254	Electric-field effects on the interfacial electron transfer and protein dynamics of cytochrome c. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 660, 367-376	4.1	35
253	Structure of the chromophore binding pocket in the Pr state of plant phytochrome phyA. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 1220-31	3.4	33
252	Surface-enhanced vibrational spectroscopy for probing transient interactions of proteins with biomimetic interfaces: electric field effects on structure, dynamics and function of cytochrome c. <i>FEBS Journal</i> , 2011 , 278, 1382-90	5.7	56

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250	The chromophore structure of the long-lived intermediate of the C128T channelrhodopsin-2 variant. <i>FEBS Letters</i> , 2011 , 585, 3998-4001	3.8	15
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