

# Peter Hildebrandt

## List of Publications by Citations

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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	Surface-enhanced resonance Raman spectroscopy of Rhodamine 6G adsorbed on colloidal silver. <i>The Journal of Physical Chemistry</i> , <b>1984</b> , 88, 5935-5944		1235
393	Electron-transfer processes of cytochrome C at interfaces. New insights by surface-enhanced resonance Raman spectroscopy. <i>Accounts of Chemical Research</i> , <b>2004</b> , 37, 854-61	24.3	219
392	Role of water in bacteriorhodopsin's chromophore: resonance Raman study. <i>Biochemistry</i> , <b>1984</b> , 23, 5539-5548	21.0	
391	Spectroscopic Characterization of Nonnative Conformational States of Cytochrome c. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 6566-6580	3.4	204
390	Cytochrome c at charged interfaces. 1. Conformational and redox equilibria at the electrode/electrolyte interface probed by surface-enhanced resonance Raman spectroscopy. <i>Biochemistry</i> , <b>1989</b> , 28, 6710-21	3.2	167
389	Heterogeneous Electron Transfer of Cytochrome c on Coated Silver Electrodes. Electric Field Effects on Structure and Redox Potential. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 1578-1586	3.4	159
388	Mutational analysis of <i>Deinococcus radiodurans</i> bacteriophytochrome reveals key amino acids necessary for the photochromicity and proton exchange cycle of phytochromes. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 12212-26	5.4	158
387	Proton-coupled electron transfer of cytochrome c. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 4062-8	16.4	157
386	Copper incorporation into recombinant CotA laccase from <i>Bacillus subtilis</i> : characterization of fully copper loaded enzymes. <i>Journal of Biological Inorganic Chemistry</i> , <b>2008</b> , 13, 183-93	3.7	153
385	Phenoxy Radical Complexes of Zinc(II). <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 8889-8900	16.4	149
384	Alkaline Conformational Transitions of Ferricytochrome c Studied by Resonance Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 11246-11255	16.4	133
383	Light-induced proton release of phytochrome is coupled to the transient deprotonation of the tetrapyrrole chromophore. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 34358-64	5.4	133
382	Redox and redox-coupled processes of heme proteins and enzymes at electrochemical interfaces. <i>Physical Chemistry Chemical Physics</i> , <b>2005</b> , 7, 3773-84	3.6	125
381	Protonation state and structural changes of the tetrapyrrole chromophore during the Pr → Pfr phototransformation of phytochrome: a resonance Raman spectroscopic study. <i>Biochemistry</i> , <b>1999</b> , 38, 15185-92	3.2	120
380	Disentangling interfacial redox processes of proteins by SERR spectroscopy. <i>Chemical Society Reviews</i> , <b>2008</b> , 37, 937-45	58.5	115
379	Surface-enhanced resonance Raman spectroscopy of cytochrome c at room and low temperatures. <i>The Journal of Physical Chemistry</i> , <b>1986</b> , 90, 6017-6024		108
378	In situ spectroelectrochemical investigation of electrocatalytic microbial biofilms by surface-enhanced resonance Raman spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 2625-7	16.4	101

377	Lewis acid trapping of an elusive copper-tosyl nitrene intermediate using scandium triflate. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 14710-3	16.4	99
376	Phenoxy-copper(II) complexes: models for the active site of galactose oxidase. <i>Journal of Biological Inorganic Chemistry</i> , <b>1997</b> , 2, 444-453	3.7	99
375	Trinuclear nickel complexes with triplesalen ligands: simultaneous occurrence of mixed valence and valence tautomerism in the oxidized species. <i>Inorganic Chemistry</i> , <b>2005</b> , 44, 5467-82	5.1	99
374	Fourier-transform resonance Raman spectroscopy of intermediates of the phytochrome photocycle. <i>Biochemistry</i> , <b>1995</b> , 34, 10497-507	3.2	99
373	Tyrosine hydrogen-bonding and environmental effects in proteins probed by ultraviolet resonance Raman spectroscopy. <i>Biochemistry</i> , <b>1988</b> , 27, 5426-33	3.2	98
372	Highly conserved residues Asp-197 and His-250 in Agp1 phytochrome control the proton affinity of the chromophore and Pfr formation. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 2116-23	5.4	96
371	Peripheral and Integral Binding of Cytochrome c to Phospholipids Vesicles. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 3871-3878	3.4	95
370	A photochromic histidine kinase rhodopsin (HKR1) that is bimodally switched by ultraviolet and blue light. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 40083-90	5.4	93
369	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. <i>Applied Spectroscopy</i> , <b>1999</b> , 53, 283-291	3.1	93
368	The structural and functional role of lysine residues in the binding domain of cytochrome c in the electron transfer to cytochrome c oxidase. <i>FEBS Journal</i> , <b>1999</b> , 261, 379-91		92
367	Cytochrome c-lipid interactions studied by resonance Raman and <sup>31</sup> P NMR spectroscopy. Correlation between the conformational changes of the protein and the lipid bilayer. <i>Biochemistry</i> , <b>1991</b> , 30, 9084-9	3.2	91
366	Resonance Raman Spectroscopic Study of Metallochlorin Aggregates. Implications for the Supramolecular Structure in Chlorosomal BChl c Antennae of Green Bacteria. <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 2192-2197		90
365	On the electron transfer mechanism between cytochrome C and metal electrodes. Evidence for dynamic control at short distances. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 19906-13	3.4	89
364	Diastereoselective Control of Bacteriochlorophyll Aggregation. 31-S-BChls Essential for the Formation of Chlorosome-Like Aggregates. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 10379-10386	3.4	88
363	Spectroscopic insights into the oxygen-tolerant membrane-associated [NiFe] hydrogenase of <i>Ralstonia eutropha</i> H16. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 16264-16276	5.4	86
362	Fe(III)-Hydroperoxo and Peroxo Complexes with Aminopyridyl Ligands and the Resonance Raman Spectroscopic Identification of the Fe-O and O-O Stretching Modes. <i>European Journal of Inorganic Chemistry</i> , <b>2000</b> , 2000, 1627-1633	2.3	85
361	Why Does the Active Form of Galactose Oxidase Possess a Diamagnetic Ground State?. <i>Angewandte Chemie - International Edition</i> , <b>1998</b> , 37, 616-619	16.4	83
360	Direct observation of the gating step in protein electron transfer: electric-field-controlled protein dynamics. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 9844-8	16.4	83

- 359 Redox and conformational equilibria and dynamics of cytochrome c at high electric fields. *ChemPhysChem*, **2003**, 4, 714-24 3.2 81
- 358 Phenoxyl radical complexes of chromium(III), manganese(III), cobalt(III), and nickel(II). *Inorganica Chimica Acta*, **2000**, 297, 265-277 2.7 79
- 357 A self-improved water-oxidation catalyst: is one site really enough?. *Angewandte Chemie - International Edition*, **2014**, 53, 205-9 16.4 78
- 356 Raman spectroscopic and light-induced kinetic characterization of a recombinant phytochrome of the cyanobacterium *Synechocystis*. *Biochemistry*, **1997**, 36, 13389-95 3.2 78
- 355 Determination of the chromophore structures in the photoinduced reaction cycle of phytochrome. *Journal of the American Chemical Society*, **2004**, 126, 16734-5 16.4 78
- 354 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 4.4 78
- 353 Resonance Raman spectra of beta-carotene in solution and in photosystems revisited: an experimental and theoretical study. *Physical Chemistry Chemical Physics*, **2009**, 11, 11471-8 3.6 77
- 352 The chromophore structural changes during the photocycle of phytochrome: a combined resonance Raman and quantum chemical approach. *Accounts of Chemical Research*, **2007**, 40, 258-66 24.3 75
- 351 Cytochrome c at charged interfaces. 2. Complexes with negatively charged macromolecular systems studied by resonance Raman spectroscopy. *Biochemistry*, **1989**, 28, 6722-8 3.2 74
- 350 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 2.3 73
- 349 Conformational changes in cytochrome c and cytochrome oxidase upon complex formation: a resonance Raman study. *Biochemistry*, **1990**, 29, 1661-8 3.2 71
- 348 Reversible [4Fe-3S] cluster morphing in an O(2)-tolerant [NiFe] hydrogenase. *Nature Chemical Biology*, **2014**, 10, 378-85 11.7 70
- 347 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 16.4 69
- 346 Resonance Raman Spectroscopic Study of Phenoxyl Radical Complexes. *Journal of the American Chemical Society*, **1998**, 120, 2352-2364 16.4 69
- 345 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, 29757-72 5.4 67
- 344 Electrostatic-Field Dependent Activation Energies Modulate Electron Transfer of Cytochrome c. *Journal of Physical Chemistry B*, **2002**, 106, 12814-12819 3.4 67
- 343 De novo design and characterization of copper centers in synthetic four-helix-bundle proteins. *Journal of the American Chemical Society*, **2001**, 123, 2186-95 16.4 66
- 342 Magnetic silver hybrid nanoparticles for surface-enhanced resonance Raman spectroscopic detection and decontamination of small toxic molecules. *ACS Nano*, **2013**, 7, 3212-20 16.7 65

341	A periplasmic aldehyde oxidoreductase represents the first molybdopterin cytosine dinucleotide cofactor containing molybdo-flavoenzyme from <i>Escherichia coli</i> . <i>FEBS Journal</i> , <b>2009</b> , 276, 2762-74	5.7	63
340	Novel Au-Ag hybrid device for electrochemical SE(R)R spectroscopy in a wide potential and spectral range. <i>Nano Letters</i> , <b>2009</b> , 9, 298-303	11.5	62
339	The fungal phytochrome FphA from <i>Aspergillus nidulans</i> . <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 34605-14	9.1	62
338	Molecular basis of coupled protein and electron transfer dynamics of cytochrome c in biomimetic complexes. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 5769-78	16.4	61
337	Chromophore heterogeneity and photoconversion in phytochrome crystals and solution studied by resonance Raman spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 4753-5	16.4	61
336	NAD(H)-coupled hydrogen cycling - structure-function relationships of bidirectional [NiFe] hydrogenases. <i>FEBS Letters</i> , <b>2012</b> , 586, 545-56	3.8	60
335	Probing the active site of an O <sub>2</sub> -tolerant NAD <sup>+</sup> -reducing [NiFe]-hydrogenase from <i>Ralstonia eutropha</i> H16 by in situ EPR and FTIR spectroscopy. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 8026-9	16.4	60
334	Photoconversion mechanism of the second GAF domain of cyanobacteriochrome AnPixJ and the cofactor structure of its green-absorbing state. <i>Biochemistry</i> , <b>2013</b> , 52, 4871-80	3.2	59
333	A protonation-coupled feedback mechanism controls the signalling process in bathy phytochromes. <i>Nature Chemistry</i> , <b>2015</b> , 7, 423-30	17.6	58
332	Quantum mechanics/molecular mechanics calculation of the Raman spectra of the phycocyanobilin chromophore in alpha-C-phycocyanin. <i>Biophysical Journal</i> , <b>2007</b> , 93, 1885-94	2.9	58
331	Conformational and Redox Equilibria and Dynamics of Cytochrome c Immobilized on Electrodes via Hydrophobic Interactions. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 4823-4830	3.4	58
330	Spectroelectrochemical study of the [NiFe] hydrogenase from <i>Desulfovibrio vulgaris</i> Miyazaki F in solution and immobilized on biocompatible gold surfaces. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 15344-51	3.4	57
329	Metal- versus Ligand-Centered Oxidations in Phenolato-Vanadium and -Cobalt Complexes: Characterization of Phenoxy-Cobalt(III) Species. <i>Inorganic Chemistry</i> , <b>1997</b> , 36, 3702-3710	5.1	57
328	Proximal mutations at the type 1 copper site of CotA laccase: spectroscopic, redox, kinetic and structural characterization of I494A and L386A mutants. <i>Biochemical Journal</i> , <b>2008</b> , 412, 339-46	3.8	57
327	Long distance electron transfer in cytochrome c oxidase immobilised on electrodes. A surface enhanced resonance Raman spectroscopic study. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 759-66	3.6	57
326	Conformational transitions and redox potential shifts of cytochrome P450 induced by immobilization. <i>Journal of Biological Inorganic Chemistry</i> , <b>2006</b> , 11, 119-27	3.7	57
325	Surface-Enhanced Resonance Raman Spectroscopic and Electrochemical Study of Cytochrome c Bound on Electrodes through Coordination with Pyridinyl-Terminated Self-Assembled Monolayers. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 2261-2269	3.4	57
324	The Molecular and Electronic Structure of Symmetrically and Asymmetrically Coordinated, Non-Heme Iron Complexes Containing [FeIII(EN)FeIV]4+ (S=3/2) and [FeIV(EN)FeIV]5+ (S=0) Cores. <i>Chemistry - A European Journal</i> , <b>1999</b> , 5, 793-810	4.8	57

323	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> , <b>2011</b> , 278, 1382-90	5.7	56
322	Electric-field-induced redox potential shifts of tetraheme cytochromes c3 immobilized on self-assembled monolayers: surface-enhanced resonance Raman spectroscopy and simulation studies. <i>Biophysical Journal</i> , <b>2005</b> , 88, 4188-99	2.9	56
321	Quantitative conformational analysis of cytochrome c bound to phospholipid vesicles studied by resonance Raman spectroscopy. <i>European Biophysics Journal</i> , <b>1990</b> , 18, 193-201	1.9	56
320	Redox properties and catalytic activity of surface-bound human sulfite oxidase studied by a combined surface enhanced resonance Raman spectroscopic and electrochemical approach. <i>Physical Chemistry Chemical Physics</i> , <b>2010</b> , 12, 7894-903	3.6	55
319	The Molecular and Electronic Structure of Octahedral Tris(phenolato)iron(III) Complexes and Their Phenoxy Radical Analogues: A Mössbauer and Resonance Raman Spectroscopic Study. <i>Chemistry - A European Journal</i> , <b>1999</b> , 5, 2554-2565	4.8	55
318	Redox-linked protein dynamics of cytochrome c probed by time-resolved surface enhanced infrared absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2008</b> , 10, 5276-86	3.6	54
317	Active site structure and redox processes of cytochrome c oxidase immobilised in a novel biomimetic lipid membrane on an electrode. <i>Chemical Communications</i> , <b>2004</b> , 2376-7	5.8	54
316	Supramolecular templates for nanoflake-metal surfaces. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 2763-7.8	4.8	53
315	Chromophore structure of cyanobacterial phytochrome Cph1 in the Pr state: reconciling structural and spectroscopic data by QM/MM calculations. <i>Biophysical Journal</i> , <b>2009</b> , 96, 4153-63	2.9	53
314	Electron transfer dynamics of cytochrome c bound to self-assembled monolayers on silver electrodes. <i>Bioelectrochemistry</i> , <b>2002</b> , 55, 139-43	5.6	53
313	Structure of the Full-Length Bacteriophytochrome from the Plant Pathogen <i>Xanthomonas campestris</i> Provides Clues to its Long-Range Signaling Mechanism. <i>Journal of Molecular Biology</i> , <b>2016</b> , 428, 3702-20	6.5	53
312	Combined electrochemistry and surface-enhanced infrared absorption spectroscopy of gramicidin A incorporated into tethered bilayer lipid membranes. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 8114-7	16.4	52
311	Resonance Raman spectroscopy on [NiFe] hydrogenase provides structural insights into catalytic intermediates and reactions. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 9870-3	16.4	51
310	Potential-dependent surface-enhanced resonance Raman spectroscopy at nanostructured TiO <sub>2</sub> : a case study on cytochrome b5. <i>Small</i> , <b>2013</b> , 9, 4175-81	11	51
309	Discrimination of green arabica and Robusta coffee beans by Raman spectroscopy. <i>Journal of Agricultural and Food Chemistry</i> , <b>2010</b> , 58, 11187-92	5.7	50
308	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> , <b>2012</b> , 13, 7466-82	6.3	50
307	Chromophore-anion interactions in halorhodopsin from <i>Natronobacterium pharaonis</i> probed by time-resolved resonance Raman spectroscopy. <i>Biochemistry</i> , <b>1997</b> , 36, 11012-20	3.2	50
306	Carbamoylphosphate serves as the source of CN(-), but not of the intrinsic CO in the active site of the regulatory [NiFe]-hydrogenase from <i>Ralstonia eutropha</i> . <i>FEBS Letters</i> , <b>2007</b> , 581, 3322-6	3.8	50



305	Magnetic titanium dioxide nanocomposites for surface-enhanced resonance Raman spectroscopic determination and degradation of toxic anilines and phenols. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 2481-4	16.4	49
304	Molecular basis for the electric field modulation of cytochrome C structure and function. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 16248-56	16.4	49
303	Active-Site Structure and Dynamics of Cytochrome c Immobilized on Self-Assembled Monolayers-A Time-Resolved Surface Enhanced Resonance Raman Spectroscopic Study This work was supported by the Deutsche Forschungsgemeinschaft, the Volkswagenstiftung, and the Alexander-von-Humboldt Foundation.. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 728-731	16.4	49
302	Time-Resolved Surface-Enhanced Resonance Raman Spectroscopy for Studying Electron-Transfer Dynamics of Heme Proteins. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 7381-7382	16.4	49
301	Structure of the biliverdin cofactor in the Pfr state of bathy and prototypical phytochromes. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 16800-16814	5.4	48
300	Conformational equilibria and dynamics of cytochrome c induced by binding of sodium dodecyl sulfate monomers and micelles. <i>European Biophysics Journal</i> , <b>2003</b> , 32, 599-613	1.9	47
299	Resonance Raman spectroscopy as a tool to monitor the active site of hydrogenases. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 5162-5	16.4	46
298	Characterization of two thermostable cyanobacterial phytochromes reveals global movements in the chromophore-binding domain during photoconversion. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 21251-66	5.4	46
297	(Photo)ionization of tris(phenolato)iron(III) complexes: generation of phenoxyl radical as ligand. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 11222-11230	16.4	46
296	Flexibility of human cytochrome P450 enzymes: molecular dynamics and spectroscopy reveal important function-related variations. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2011</b> , 1814, 58-68	4	45
295	Mesoporous Indium Tin Oxide as a Novel Platform for Bioelectronics. <i>ChemCatChem</i> , <b>2010</b> , 2, 839-845	5.2	45
294	Structural snapshot of a bacterial phytochrome in its functional intermediate state. <i>Nature Communications</i> , <b>2018</b> , 9, 4912	17.4	45
293	Vibrational spectroscopy reveals the initial steps of biological hydrogen evolution. <i>Chemical Science</i> , <b>2016</b> , 7, 6746-6752	9.4	44
292	Electric-Field Control of the pH-Dependent Redox Process of Cytochrome c Immobilized on a Gold Electrode. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 13038-13044	3.8	44
291	SEIRA spectroscopy of the electrochemical activation of an immobilized [NiFe] hydrogenase under turnover and non-turnover conditions. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 2632-4	16.4	43
290	Light-Dark Adaptation of Channelrhodopsin Involves Photoconversion between the all-trans and 13-cis Retinal Isomers. <i>Biochemistry</i> , <b>2015</b> , 54, 5389-400	3.2	42
289	Dinuclear copper complexes based on parallel diiminato binding sites and their reactions with O <sub>2</sub> : evidence for a Cu-O-Cu entity. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 2133-42	5.1	42
288	Redox processes of cytochrome c immobilized on solid supported polyelectrolyte multilayers. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 522-9	3.4	42

287	Resonance Raman study of the interactions between cytochrome c variants and cytochrome c oxidase. <i>Biochemistry</i> , <b>1993</b> , 32, 10912-22	3.2	42
286	Protonation-Dependent Structural Heterogeneity in the Chromophore Binding Site of Cyanobacterial Phytochrome Cph1. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 47-57	3.4	41
285	The role of Glu498 in the dioxygen reactivity of CotA-laccase from <i>Bacillus subtilis</i> . <i>Dalton Transactions</i> , <b>2010</b> , 39, 2875-82	4.3	41
284	Structural changes of myoglobin in pressure-treated pork meat probed by resonance Raman spectroscopy. <i>Food Chemistry</i> , <b>2009</b> , 115, 1194-1198	8.5	41
283	Comparative resonance Raman study of cytochrome c oxidase from beef heart and <i>Paracoccus denitrificans</i> . <i>Biochemistry</i> , <b>1993</b> , 32, 10866-77	3.2	41
282	Fourier transform resonance Raman spectroscopy of phytochrome. <i>Biochemistry</i> , <b>1992</b> , 31, 7957-62	3.2	41
281	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> , <b>2013</b> , 288, 31738-51	5.4	40
280	Site directed mutagenesis of amino acid residues at the active site of mouse aldehyde oxidase AOX1. <i>PLoS ONE</i> , <b>2009</b> , 4, e5348	3.7	40
279	Concerted action of two novel auxiliary proteins in assembly of the active site in a membrane-bound [NiFe] hydrogenase. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 2159-68	5.4	40
278	Reduction of unusual iron-sulfur clusters in the H <sub>2</sub> -sensing regulatory Ni-Fe hydrogenase from <i>Ralstonia eutropha</i> H16. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 19488-95	5.4	40
277	ENitridodiiron Complexes with Asymmetric [FeIV?N-FeIII]4+ and Symmetric [FeIV?N?FeIV]5+ Structural Elements. <i>Angewandte Chemie International Edition in English</i> , <b>1995</b> , 34, 669-672		40
276	Vibrational analysis of biliverdin dimethyl ester. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 11887-11900		39
275	<b>2007</b> ,		38
274	Role of the HoxZ subunit in the electron transfer pathway of the membrane-bound [NiFe]-hydrogenase from <i>Ralstonia eutropha</i> immobilized on electrodes. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 10368-74	3.4	37
273	Induced SER-Activity in Nanostructured Ag/Silica/Au Supports via Long-Range Plasmon Coupling. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 1954-1961	15.6	37
272	Heme coordination states of unfolded ferrous cytochrome C. <i>Biophysical Journal</i> , <b>2006</b> , 91, 3022-31	2.9	37
271	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. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 289-303	2.8	37
270	Assembly of photoactive orange carotenoid protein from its domains unravels a carotenoid shuttle mechanism. <i>Photosynthesis Research</i> , <b>2017</b> , 133, 327-341	3.7	36



269	Perturbation of the redox site structure of cytochrome c variants upon tyrosine nitration. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 5694-702	3.4	36
268	Binding ofazole antibiotics to Staphylococcus aureus flavohemoglobin increases intracellular oxidative stress. <i>Journal of Bacteriology</i> , <b>2010</b> , 192, 1527-33	3.5	36
267	Resonance Raman spectroscopy of sensory rhodopsin II from Natronobacterium pharaonis. <i>FEBS Letters</i> , <b>2000</b> , 472, 263-6	3.8	36
266	Electric-field effects on the interfacial electron transfer and protein dynamics of cytochrome c. <i>Journal of Electroanalytical Chemistry</i> , <b>2011</b> , 660, 367-376	4.1	35
265	Midpoint potentials of hemes a and a <sub>3</sub> in the quinol oxidase from Acidianus ambivalens are inverted. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 13561-6	16.4	35
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