

Reinhard Schweitzer-Stenner

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/294697/publications.pdf>

Version: 2024-02-01

158
papers

5,746
citations

71102

41
h-index

102487

66
g-index

186
all docs

186
docs citations

186
times ranked

3748
citing authors

#	ARTICLE	IF	CITATIONS
1	Tripeptides Adopt Stable Structures in Water. A Combined Polarized Visible Raman, FTIR, and VCD Spectroscopy Study. <i>Journal of the American Chemical Society</i> , 2002, 124, 14330-14341.	13.7	199
2	Dihedral τ Angle Dependence of the Amide III Vibration: A Uniquely Sensitive UV Resonance Raman Secondary Structural Probe. <i>Journal of the American Chemical Society</i> , 2001, 123, 11775-11781.	13.7	185
3	Vibrational Assignments of trans-N-Methylacetamide and Some of Its Deuterated Isotopomers from Band Decomposition of IR, Visible, and Resonance Raman Spectra. <i>The Journal of Physical Chemistry</i> , 1995, 99, 3074-3083.	2.9	151
4	Advances in vibrational spectroscopy as a sensitive probe of peptide and protein structure. <i>Vibrational Spectroscopy</i> , 2006, 42, 98-117.	2.2	142
5	Stable Conformations of Tripeptides in Aqueous Solution Studied by UV Circular Dichroism Spectroscopy. <i>Journal of the American Chemical Society</i> , 2003, 125, 8178-8185.	13.7	140
6	Dihedral Angles of Trialanine in D2O Determined by Combining FTIR and Polarized Visible Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , 2001, 123, 9628-9633.	13.7	130
7	Intrinsic Propensities of Amino Acid Residues in GxG Peptides Inferred from Amide I ϵ^2 Band Profiles and NMR Scalar Coupling Constants. <i>Journal of the American Chemical Society</i> , 2010, 132, 540-551.	13.7	124
8	The Conformation of Tetraalanine in Water Determined by Polarized Raman, FT-IR, and VCD Spectroscopy. <i>Journal of the American Chemical Society</i> , 2004, 126, 2768-2776.	13.7	123
9	Conformational Properties of Nickel(II) Octaethylporphyrin in Solution. 1. Resonance Excitation Profiles and Temperature Dependence of Structure-Sensitive Raman Lines. <i>The Journal of Physical Chemistry</i> , 1996, 100, 14184-14191.	2.9	118
10	N-Methylacetamide and Its Hydrogen-Bonded Water Molecules Are Vibrationally Coupled. <i>Journal of the American Chemical Society</i> , 1994, 116, 11141-11142.	13.7	112
11	Preferred peptide backbone conformations in the unfolded state revealed by the structure analysis of alanine-based (AXA) tripeptides in aqueous solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 10054-10059.	7.1	110
12	Vibrational Circular Dichroism as a Probe of Fibrillogenesis: The Origin of the Anomalous Intensity Enhancement of Amyloid-like Fibrils. <i>Journal of the American Chemical Society</i> , 2011, 133, 1066-1076.	13.7	102
13	Dihedral Angles of Tripeptides in Solution Directly Determined by Polarized Raman and FTIR Spectroscopy. <i>Biophysical Journal</i> , 2002, 83, 523-532.	0.5	98
14	The Structure of Alanine Based Tripeptides in Water and Dimethyl Sulfoxide Probed by Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003, 107, 358-365.	2.6	93
15	A β 1-28 Fragment of the Amyloid Peptide Predominantly Adopts a Polyproline II Conformation in an Acidic Solution. <i>Biochemistry</i> , 2004, 43, 6893-6898.	2.5	88
16	Secondary Structure Analysis of Polypeptides Based on an Excitonic Coupling Model to Describe the Band Profile of Amide I $\tilde{\nu}$ of IR, Raman, and Vibrational Circular Dichroism Spectra. <i>Journal of Physical Chemistry B</i> , 2004, 108, 16965-16975.	2.6	87
17	Inactivation of Horseradish Peroxidase by Phenoxyl Radical Attack. <i>Journal of the American Chemical Society</i> , 2005, 127, 1431-1437.	13.7	87
18	UV Raman Determination of the π - π^* Excited State Geometry of N-Methylacetamide: Vibrational Enhancement Pattern. <i>Journal of the American Chemical Society</i> , 1995, 117, 2884-2895.	13.7	86

#	ARTICLE	IF	CITATIONS
19	The Amide I Mode of Peptides in Aqueous Solution Involves Vibrational Coupling between the Peptide Group and Water Molecules of the Hydration Shell. <i>Journal of the American Chemical Society</i> , 1997, 119, 1720-1726.	13.7	78
20	Distribution of Conformations Sampled by the Central Amino Acid Residue in Tripeptides Inferred From Amide I Band Profiles and NMR Scalar Coupling Constants. <i>Journal of Physical Chemistry B</i> , 2009, 113, 2922-2932.	2.6	78
21	Structure Analysis of Dipeptides in Water by Exploring and Utilizing the Structural Sensitivity of Amide III by Polarized Visible Raman, FTIR ^{2D} Spectroscopy and DFT Based Normal Coordinate Analysis. <i>Journal of Physical Chemistry B</i> , 2002, 106, 4294-4304.	2.6	71
22	Visible and UV-resonance Raman spectroscopy of model peptides. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 711-732.	2.5	70
23	The alanine-rich XAO peptide adopts a heterogeneous population, including turn-like and polyproline II conformations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6649-6654.	7.1	65
24	pH-Independence of Trialanine and the Effects of Termini Blocking in Short Peptides: A Combined Vibrational, NMR, UVCD, and Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3689-3706.	2.6	64
25	Planar and Nonplanar Conformations of (meso-Tetraphenylporphinato)nickel(II) in Solution As Inferred from Solution and Solid-State Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5789-5798.	2.5	63
26	Intermolecular Coupling in Liquid and Crystalline States of trans-N-Methylacetamide Investigated by Polarized Raman and FT-IR Spectroscopies. <i>Journal of Physical Chemistry A</i> , 1998, 102, 118-127.	2.5	59
27	Conformational propensities and residual structures in unfolded peptides and proteins. <i>Molecular BioSystems</i> , 2012, 8, 122-133.	2.9	59
28	Ultra-Long Crystalline Red Phosphorus Nanowires from Amorphous Red Phosphorus Thin Films. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11829-11833.	13.8	56
29	Conformational Manifold of \pm -Aminoisobutyric Acid (Aib) Containing Alanine-Based Tripeptides in Aqueous Solution Explored by Vibrational Spectroscopy, Electronic Circular Dichroism Spectroscopy, and Molecular Dynamics Simulations. <i>Journal of the American Chemical Society</i> , 2007, 129, 13095-13109.	13.7	55
30	Local Order in the Unfolded State: Conformational Biases and Nearest Neighbor Interactions. <i>Biomolecules</i> , 2014, 4, 725-773.	4.0	54
31	Allosteric linkage-induced distortions of the prosthetic group in haem proteins as derived by the theoretical interpretation of the depolarization ratio in resonance Raman scattering. <i>Quarterly Reviews of Biophysics</i> , 1989, 22, 381-479.	5.7	52
32	Conformations of Alanine-Based Peptides in Water Probed by FTIR, Raman, Vibrational Circular Dichroism, Electronic Circular Dichroism, and NMR Spectroscopy. <i>Biochemistry</i> , 2007, 46, 1587-1596.	2.5	52
33	Different Conformers and Protonation States of Dipeptides Probed by Polarized Raman, UV ^{2D} Resonance Raman, and FTIR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1999, 103, 372-384.	2.6	49
34	Amino Acids with Hydrogen-Bonding Side Chains have an Intrinsic Tendency to Sample Various Turn Conformations in Aqueous Solution. <i>Chemistry - A European Journal</i> , 2011, 17, 6789-6797.	3.3	49
35	Optical Band Splitting and Electronic Perturbations of the Heme Chromophore in Cytochrome c at Room Temperature Probed by Visible Electronic Circular Dichroism Spectroscopy. <i>Biophysical Journal</i> , 2007, 92, 989-998.	0.5	47
36	Structure of Poly(Ethylene Glycol)-Modified Horseradish Peroxidase in Organic Solvents: Infrared Amide I Spectral Changes upon Protein Dehydration Are Largely Caused by Protein Structural Changes and Not by Water Removal Per Se. <i>Biophysical Journal</i> , 2002, 83, 3637-3651.	0.5	46

#	ARTICLE	IF	CITATIONS
37	Simulated IR, Isotropic and Anisotropic Raman, and Vibrational Circular Dichroism Amide I Band Profiles of Stacked β -Sheets. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4141-4153.	2.6	45
38	The Endogenous Calcium Ions of Horseradish Peroxidase C Are Required to Maintain the Functional Nonplanarity of the Heme. <i>Biophysical Journal</i> , 2003, 84, 2542-2552.	0.5	44
39	Aggregation of the Amphipathic Peptides (AAKA) _n into Antiparallel β -Sheets. <i>Journal of the American Chemical Society</i> , 2006, 128, 13324-13325.	13.7	44
40	Self-Aggregation of a Polyalanine Octamer Promoted by Its C-Terminal Tyrosine and Probed by a Strongly Enhanced Vibrational Circular Dichroism Signal. <i>Journal of the American Chemical Society</i> , 2009, 131, 18218-18219.	13.7	43
41	Coexistence of Native-like and Non-Native Partially Unfolded Ferricytochrome <i>c</i> on the Surface of Cardiolipin-Containing Liposomes. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1334-1349.	2.6	43
42	Amyloid Precursor Protein Translation Is Regulated by a 3' UTR Guanine Quadruplex. <i>PLoS ONE</i> , 2015, 10, e0143160.	2.5	42
43	The Conformational Manifold of Ferricytochrome <i>c</i> Explored by Visible and Far-UV Electronic Circular Dichroism Spectroscopy. <i>Biochemistry</i> , 2008, 47, 9667-9677.	2.5	41
44	Assessing backbone solvation effects in the conformational propensities of amino acid residues in unfolded peptides. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 24917-24924.	2.8	41
45	The structure of tri-proline in water probed by polarized Raman, Fourier transform infrared, vibrational circular dichroism, and electric ultraviolet circular dichroism spectroscopy. <i>Biopolymers</i> , 2003, 71, 558-568.	2.4	40
46	Raman dispersion spectroscopy on the highly saddled nickel(II)-octaethyltetraphenylporphyrin reveals the symmetry of nonplanar distortions and the vibronic coupling strength of normal modes. <i>Journal of Chemical Physics</i> , 1997, 107, 1794-1815.	3.0	39
47	Protein Dynamics in an Intermediate State of Myoglobin: Optical Absorption, Resonance Raman Spectroscopy, and X-Ray Structure Analysis. <i>Biophysical Journal</i> , 2000, 78, 2081-2092.	0.5	39
48	Nonplanar Heme Deformations and Excited State Displacements in Nickel Porphyrins Detected by Raman Spectroscopy at Soret Excitation. <i>Journal of Physical Chemistry A</i> , 2005, 109, 10493-10502.	2.5	39
49	Side Chain Dependence of Intensity and Wavenumber Position of Amide I ⁻ in IR and Visible Raman Spectra of XA and AX Dipeptides. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8195-8205.	2.6	39
50	Anharmonic Protein Motions and Heme Deformations in Myoglobin Cyanide Probed by Absorption and Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2000, 104, 4754-4764.	2.6	38
51	Discrepancies between Conformational Distributions of a Polyalanine Peptide in Solution Obtained from Molecular Dynamics Force Fields and Amide I ² Band Profiles. <i>Journal of Physical Chemistry B</i> , 2010, 114, 17201-17208.	2.6	38
52	Internal Electric Field in Cytochrome C Explored by Visible Electronic Circular Dichroism Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2008, 112, 10358-10366.	2.6	36
53	Role of Enthalpy-Entropy Compensation Interactions in Determining the Conformational Propensities of Amino Acid Residues in Unfolded Peptides. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1309-1318.	2.6	36
54	Coexistence of Native-Like and Non-Native Cytochrome <i>c</i> on Anionic Liposomes with Different Cardiolipin Content. <i>Journal of Physical Chemistry B</i> , 2015, 119, 12846-12859.	2.6	36

#	ARTICLE	IF	CITATIONS
55	The pH Dependence of the 695 nm Charge Transfer Band Reveals the Population of an Intermediate State of the Alkaline Transition of Ferricytochrome <i>c</i> at Low Ion Concentrations. <i>Biochemistry</i> , 2009, 48, 2990-2996.	2.5	35
56	Disorder and order in unfolded and disordered peptides and proteins: A view derived from tripeptide conformational analysis. II. Tripeptides with short side chains populating β -turn conformations. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 968-983.	2.6	35
57	Uncoupled Adjacent Amide Vibrations in Small Peptides. <i>Journal of the American Chemical Society</i> , 2000, 122, 9028-9029.	13.7	34
58	Relating the multi-functionality of cytochrome <i>c</i> to membrane binding and structural conversion. <i>Biophysical Reviews</i> , 2018, 10, 1151-1185.	3.2	34
59	Disorder and order in unfolded and disordered peptides and proteins: A view derived from tripeptide conformational analysis. I. Tripeptides with long and predominantly hydrophobic side chains. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 955-967.	2.6	33
60	Water-Centered Interpretation of Intrinsic pPII Propensities of Amino Acid Residues: <i>In Vitro</i> -Driven Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 13237-13251.	2.6	33
61	Is a cross- β -sheet structure of low molecular weight peptides necessary for the formation of fibrils and peptide hydrogels?. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 18158-18168.	2.8	33
62	Cardiolipin containing liposomes are fully ionized at physiological pH. An FT-IR study of phosphate group ionization. <i>Vibrational Spectroscopy</i> , 2014, 75, 86-92.	2.2	32
63	Perturbation of water structure by water-polymer interactions probed by FTIR and polarized Raman spectroscopy. <i>Journal of Molecular Liquids</i> , 2019, 275, 463-473.	4.9	31
64	Structural Disorder of Native Horseradish Peroxidase C Probed by Resonance Raman and Low-Temperature Optical Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003, 107, 2822-2830.	2.6	29
65	Simulation of amide β band profiles of trans polyproline based on an excitonic coupling model. <i>Chemical Physics Letters</i> , 2005, 408, 123-127.	2.6	29
66	Salmon Calcitonin and Amyloid β : Two Peptides with Amyloidogenic Capacity Adopt Different Conformational Manifolds in Their Unfolded States. <i>Biochemistry</i> , 2006, 45, 2810-2819.	2.5	29
67	Conformational Changes of Alanine Induced by Direct Interactions between Alanine Residues and Alcohols in Binary Mixtures of Water with Glycerol and Ethanol. <i>Journal of the American Chemical Society</i> , 2011, 133, 12728-12739.	13.7	29
68	A New Method for Evaluating the Conformations and Normal Modes of Macromolecule Vibrations with a Reduced Force Field. 2. Application to Nonplanar Distorted Metal Porphyrins. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10022-10031.	2.6	28
69	Conformational Analysis of XA and AX Dipeptides in Water by Electronic Circular Dichroism and ^1H NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 6979-6986.	2.6	28
70	Demixing of water and ethanol causes conformational redistribution and gelation of the cationic GAG tripeptide. <i>Chemical Communications</i> , 2015, 51, 16498-16501.	4.1	28
71	The importance of vibronic perturbations in ferrocyanide <i>c</i> spectra: A reevaluation of spectral properties based on low-temperature optical absorption, resonance Raman, and molecular-dynamics simulations. <i>Journal of Chemical Physics</i> , 2005, 123, 054508.	3.0	27
72	Cutting Edge: Death of a Dogma or Enforcing the Artificial: Monomeric IgE Binding May Initiate Mast Cell Response by Inducing Its Receptor Aggregation. <i>Journal of Immunology</i> , 2005, 174, 4461-4464.	0.8	27

#	ARTICLE	IF	CITATIONS
73	Structural Changes of Horse Heart Ferricytochrome <i>c</i> Induced by Changes of Ionic Strength and Anion Binding. <i>Biochemistry</i> , 2008, 47, 5250-5257.	2.5	27
74	Randomizing the Unfolded State of Peptides (and Proteins) by Nearest Neighbor Interactions between Unlike Residues. <i>Chemistry - A European Journal</i> , 2015, 21, 5173-5192.	3.3	27
75	The interplay of aggregation, fibrillization and gelation of an unexpected low molecular weight gelator: glycylalanyl-glycine in ethanol/water. <i>Soft Matter</i> , 2016, 12, 6096-6110.	2.7	27
76	Multimode analysis of depolarization ratio dispersion and excitation profiles of seven Raman fundamentals from the haeme group in ferrocycytochrome <i>c</i> . <i>Journal of Raman Spectroscopy</i> , 1991, 22, 65-78.	2.5	25
77	Polarized Raman dispersion spectroscopy probes planar and non-planar distortions of Ni(II) porphyrins with different peripheral substituents. <i>Journal of Raman Spectroscopy</i> , 1998, 29, 945-953.	2.5	25
78	Polarized resonance Raman dispersion spectroscopy on metallocporphyrins. <i>Journal of Porphyrins and Phthalocyanines</i> , 2001, 05, 198-224.	0.8	24
79	Structure and dynamics of biomolecules probed by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 276-278.	2.5	24
80	Conformational Substates of Horse Heart Cytochrome <i>c</i> Exhibit Different Thermal Unfolding of the Heme Cavity. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9603-9607.	2.6	23
81	Kinetics of the self-aggregation and film formation of poly-L-proline at high temperatures explored by circular dichroism spectroscopy. <i>Biopolymers</i> , 2010, 93, 451-457.	2.4	23
82	Conformations of Phenylalanine in the Tripeptides AFA and GFG Probed by Combining MD Simulations with NMR, FTIR, Polarized Raman, and VCD Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2010, 114, 3965-3978.	2.6	23
83	Cytochrome <i>c</i> : A Multifunctional Protein Combining Conformational Rigidity with Flexibility. <i>New Journal of Science</i> , 2014, 2014, 1-28.	1.0	23
84	Conformational Properties of Nickel(II)meso-Tetraphenylporphyrin in Solution. Raman Dispersion Spectroscopy Reveals the Symmetry of Distortions for a Nonplanar Conformer. <i>Journal of Physical Chemistry A</i> , 1997, 101, 5997-6007.	2.5	22
85	Dynamics of Various Metal-Octaethylporphyrins in Solution Studied by Resonance Raman and Low-Temperature Optical Absorption Spectroscopies. Role of the Central Metal. <i>Journal of Physical Chemistry B</i> , 1998, 102, 6612-6620.	2.6	22
86	Salt as a catalyst in the mitochondria: returning cytochrome <i>c</i> to its native state after it misfolds on the surface of cardiolipin containing membranes. <i>Chemical Communications</i> , 2014, 50, 3674-3676.	4.1	22
87	Do Molecular Dynamics Force Fields Capture Conformational Dynamics of Alanine in Water?. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 510-527.	5.3	22
88	Non-planar heme deformations and excited state displacements in horseradish peroxidase detected by Raman spectroscopy at Soret excitation. <i>Journal of Raman Spectroscopy</i> , 2005, 36, 363-375.	2.5	21
89	The conformations adopted by the octamer peptide (AAKA) ₂ in aqueous solution probed by FTIR and polarized Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2006, 37, 248-254.	2.5	21
90	Anomalous Conformational Instability and Hydrogel Formation of a Cationic Class of Self-Assembling Oligopeptides. <i>Macromolecules</i> , 2010, 43, 7800-7806.	4.8	21

#	ARTICLE	IF	CITATIONS
91	Probing conformational propensities of histidine in different protonation states of the unblocked glycyl-L-histidyl-L-glycine peptide by vibrational and NMR spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 1063-1072.	2.5	21
92	Conformational Distortions of Metalloporphyrins with Electron-Withdrawing NO ₂ Substituents at Different Meso Positions. A Structural Analysis by Polarized Resonance Raman Dispersion Spectroscopy and Molecular Mechanics Calculations. <i>Journal of Physical Chemistry A</i> , 2001, 105, 6680-6694.	2.5	19
93	Energy Landscapes Associated with the Self-Aggregation of an Alanine-Based Oligopeptide (AAKA) ₄ . <i>Journal of Physical Chemistry B</i> , 2009, 113, 6054-6061.	2.6	19
94	pH-Induced Switch between Different Modes of Cytochrome <i>c</i> Binding to Cardiolipin-Containing Liposomes. <i>ACS Omega</i> , 2019, 4, 1386-1400.	3.5	19
95	Triaspartate: A Model System for Conformationally Flexible DDD Motifs in Proteins. <i>Journal of Physical Chemistry B</i> , 2012, 116, 5160-5171.	2.6	18
96	A new interpretation of the structure and solvent dependence of the far UV circular dichroism spectrum of short oligopeptides. <i>Chemical Communications</i> , 2019, 55, 5701-5704.	4.1	18
97	Construction and comparison of the statistical coil states of unfolded and intrinsically disordered proteins from nearest-neighbor corrected conformational propensities of short peptides. <i>Molecular BioSystems</i> , 2016, 12, 3294-3306.	2.9	17
98	Water-Mediated Electronic Structure of Oligopeptides Probed by Their UV Circular Dichroism, Absorption Spectra, and Time-Dependent DFT Calculations. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2579-2590.	2.6	17
99	Electronic and Vibronic Contributions to the Band Splitting in Optical Spectra of Heme Proteins. <i>Journal of Physical Chemistry B</i> , 2001, 105, 7064-7073.	2.6	16
100	Environment-Controlled Interchromophore Charge Transfer Transitions in Dipeptides Probed by UV Absorption and Electronic Circular Dichroism Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006, 110, 13235-13241.	2.6	16
101	Microperoxidase 11: a model system for porphyrin networks and heme-protein interactions. <i>Journal of Biological Inorganic Chemistry</i> , 2009, 14, 1289-1300.	2.6	16
102	Simulation of IR, Raman and VCD amide I band profiles of self-assembled peptides. <i>Spectroscopy</i> , 2010, 24, 25-36.	0.8	16
103	Method for the evaluation of normal modes and molecular mechanics with reduced sets of force constants. 1. Principles and reliability test. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 3-28.	2.5	15
104	Asymmetric band profile of the Soret band of deoxymyoglobin is caused by electronic and vibronic perturbations of the heme group rather than by a doming deformation. <i>Journal of Chemical Physics</i> , 2007, 127, 135103.	3.0	15
105	pH Dependence of Ferricytochrome <i>c</i> Conformational Transitions during Binding to Cardiolipin Membranes: Evidence for Histidine as the Distal Ligand at Neutral pH. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1993-1998.	4.6	15
106	Glycine in Water Favors the Polyproline II State. <i>Biomolecules</i> , 2020, 10, 1121.	4.0	15
107	In-plane deformations of the heme group in native and nonnative oxidized cytochrome <i>c</i> probed by resonance Raman dispersion spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 917-925.	2.5	14
108	Ionized Trilycine: A Model System for Understanding the Nonrandom Structure of Poly-L-lysine and Lysine-Containing Motifs in Proteins. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8084-8094.	2.6	14

#	ARTICLE	IF	CITATIONS
109	The (Not Completely Irreversible) Population of a Misfolded State of Cytochrome c under Folding Conditions. <i>Biochemistry</i> , 2013, 52, 1397-1408.	2.5	14
110	Autoxidation of Reduced Horse Heart Cytochrome <i>c</i> Catalyzed by Cardiolipin-Containing Membranes. <i>Journal of Physical Chemistry B</i> , 2016, 120, 12219-12231.	2.6	14
111	Probing the Conformation-Dependent Preferential Binding of Ethanol to Cationic Glycylalanyl-glycine in Water/Ethanol by Vibrational and NMR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2017, 121, 5744-5758.	2.6	14
112	Short peptides as predictors for the structure of α -polyarginine sequences in disordered proteins. <i>Biophysical Journal</i> , 2021, 120, 662-676.	0.5	14
113	Regulation of mast cells' secretory response by co-clustering the Type 1 Fc γ receptor with the mast cell function-associated antigen. <i>European Journal of Immunology</i> , 2005, 35, 1621-1633.	2.9	13
114	Out-of-plane deformations of the heme group in different ferrocycytochrome c proteins probed by resonance Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2008, 39, 1848-1858.	2.5	13
115	Entropy reduction in unfolded peptides (and proteins) due to conformational preferences of amino acid residues. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22527-22536.	2.8	13
116	Anticooperative Nearest-Neighbor Interactions between Residues in Unfolded Peptides and Proteins. <i>Biophysical Journal</i> , 2018, 114, 1046-1057.	0.5	13
117	Exploring the gel phase of cationic glycylalanyl-glycine in ethanol/water. I. Rheology and microscopy studies. <i>Journal of Colloid and Interface Science</i> , 2020, 564, 499-509.	9.4	13
118	The Fe ²⁺ -HisF8 Raman Band Shape of Deoxymyoglobin Reveals Taxonomic Conformational Substates of the Proximal Linkage. <i>Biophysical Journal</i> , 2001, 81, 1624-1631.	0.5	12
119	Conformational analysis of tetrapeptides by exploiting the excitonic coupling between amide I modes. <i>Journal of Raman Spectroscopy</i> , 2004, 35, 586-591.	2.5	12
120	Conformational Stability of Cytochrome c Probed by Optical Spectroscopy. <i>Methods in Enzymology</i> , 2009, 466, 109-153.	1.0	12
121	Near-exact enthalpy-entropy compensation governs the thermal unfolding of protonation states of oxidized cytochrome c. <i>Journal of Biological Inorganic Chemistry</i> , 2014, 19, 1181-1194.	2.6	12
122	Ultra-Long Crystalline Red Phosphorus Nanowires from Amorphous Red Phosphorus Thin Films. <i>Angewandte Chemie</i> , 2016, 128, 12008-12012.	2.0	12
123	Formation of peptide-based oligomers in dimethylsulfoxide: identifying the precursor of fibril formation. <i>Soft Matter</i> , 2020, 16, 7860-7868.	2.7	12
124	Short Peptides as Tunable, Switchable, and Strong Gelators. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6760-6775.	2.6	12
125	Investigation of haem-protein coupling and structural heterogeneity in myoglobin and haemoglobin by resonance Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 1992, 23, 539-550.	2.5	11
126	Reply to Comment on "Vibrational Assignments of trans-N-Methylacetamide and Some of Its Deuterated Isotopomers from Band Decomposition of IR, Visible, and Resonance Raman Spectra". <i>Journal of Physical Chemistry A</i> , 1997, 101, 3992-3994.	2.5	11

#	ARTICLE	IF	CITATIONS
127	Functionally Relevant Electric-Field Induced Perturbations of the Prosthetic Group of Yeast Ferrocycytochrome Mutants Obtained from a Vibronic Analysis of Low-Temperature Absorption Spectra. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12155-12161.	2.6	11
128	Structural Destabilization of Azurin by Imidazolium Chloride Ionic Liquids in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6933-6945.	2.6	11
129	Raman dispersion spectroscopy probes heme distortions in deoxyHb-trout IV involved in its T-state Bohr effect. <i>Biophysical Journal</i> , 1993, 64, 1194-1209.	0.5	10
130	Parameters determining the stimulatory capacity of the type I Fc μ -receptor. <i>Immunology Letters</i> , 1999, 68, 59-69.	2.5	10
131	Static Normal Coordinate Deformations of the Heme Group in Mutants of Ferrocycytochrome c from <i>Saccharomyces cerevisiae</i> Probed by Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6527-6533.	2.6	10
132	Exploring the thermal reversibility and tunability of a low molecular weight gelator using vibrational and electronic spectroscopy and rheology. <i>Soft Matter</i> , 2019, 15, 3418-3431.	2.7	10
133	Mast cell stimulation by co-clustering the type I Fc μ -receptors with mast cell function-associated antigens. <i>Immunology Letters</i> , 1999, 68, 71-78.	2.5	9
134	Heme Structural Perturbation of PEG-Modified Horseradish Peroxidase C in Aromatic Organic Solvents Probed by Optical Absorption and Resonance Raman Dispersion Spectroscopy. <i>Biophysical Journal</i> , 2003, 84, 3285-3298.	0.5	9
135	Cu(II) and Ni(II) Interactions with the Terminally Blocked Hexapeptide Ac-Leu-Ala-His-Tyr-Asn-Lys-amide Model of Histone H2B (80-85). <i>Bioinorganic Chemistry and Applications</i> , 2008, 2008, 1-10.	4.1	9
136	Using spectroscopic tools to probe porphyrin deformation and porphyrin-protein interactions. <i>Journal of Porphyrins and Phthalocyanines</i> , 2011, 15, 312-337.	0.8	9
137	Different Degrees of Disorder in Long Disordered Peptides Can Be Discriminated by Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 6927-6936.	2.6	9
138	Investigating the Formation of a Repulsive Hydrogel of a Cationic 16mer Peptide at Low Ionic Strength in Water by Vibrational Spectroscopy and Rheology. <i>Journal of Physical Chemistry B</i> , 2016, 120, 10079-10090.	2.6	9
139	Ferrocyanide-Mediated Photoreduction of Ferricytochrome...C Utilized to Selectively Probe Non-native Conformations Induced by Binding to Cardiolipin-Containing Liposomes. <i>Chemistry - A European Journal</i> , 2017, 23, 1151-1156.	3.3	9
140	Exploring the gel phase of cationic glycylalanyl-glycine in ethanol/water. II. Spectroscopic, kinetic and thermodynamic studies. <i>Journal of Colloid and Interface Science</i> , 2020, 573, 123-134.	9.4	9
141	Do molecular dynamics force fields accurately model Ramachandran distributions of amino acid residues in water?. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 3259-3279.	2.8	9
142	The combined use of amide I bands in polarized Raman, IR, and vibrational dichroism spectra for the structure analysis of peptide fibrils and disordered peptides and proteins. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2479-2499.	2.5	8
143	Repeating Aspartic Acid Residues Prefer Turn-like Conformations in the Unfolded State: Implications for Early Protein Folding. <i>Journal of Physical Chemistry B</i> , 2021, 125, 11392-11407.	2.6	8
144	Vibrational Analysis of Metalloporphyrins with Electron-Withdrawing NO ₂ Substituents at Different Meso Positions. <i>Journal of Physical Chemistry A</i> , 2001, 105, 6668-6679.	2.5	7

#	ARTICLE	IF	CITATIONS
145	Interaction of a Tripeptide with Cesium Perfluorooctanoate Micelles. <i>Journal of Physical Chemistry B</i> , 2008, 112, 1251-1261.	2.6	7
146	Probing the replacement of water by dimethyl sulfoxide in the hydration shell of N-methylacetamide by FTIR-spectroscopy. <i>Vibrational Spectroscopy</i> , 2017, 92, 251-258.	2.2	7
147	The tripeptide GHG as an unexpected hydrogelator triggered by imidazole deprotonation. <i>Soft Matter</i> , 2020, 16, 4110-4114.	2.7	7
148	Structural Analysis of Unfolded Peptides by Raman Spectroscopy. <i>Methods in Molecular Biology</i> , 2012, 895, 315-346.	0.9	6
149	Vibrational analysis of Ni(II)- and Cu(II)-octamethylchlorin by polarized resonance Raman and Fourier transform infrared spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2001, 32, 521-541.	2.5	5
150	Orientation of Oligopeptides in Self-Assembled Monolayers Inferred from Infrared Reflection-Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 860-868.	2.6	5
151	Intrinsic Conformational Dynamics of Alanine in Water/Ethanol Mixtures: An Experiment-Driven Molecular Dynamics Study. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11600-11616.	2.6	5
152	Structure Analysis of Unfolded Peptides I: Vibrational Circular Dichroism Spectroscopy. <i>Methods in Molecular Biology</i> , 2012, 895, 271-313.	0.9	3
153	Photoreduction of ferricytochrome c in the presence of potassium ferrocyanide. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 1462-1468.	2.9	3
154	Concentration Dependence of a Hydrogel Phase Formed by the Deprotonation of the Imidazole Side Chain of Glycylhistidylglycine. <i>Langmuir</i> , 2021, 37, 6935-6946.	3.5	3
155	Randomizing of Oligopeptide Conformations by Nearest Neighbor Interactions between Amino Acid Residues. <i>Biomolecules</i> , 2022, 12, 684.	4.0	3
156	Exploring Nearest Neighbor Interactions and Their Influence on the Gibbs Energy Landscape of Unfolded Proteins and Peptides. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5643.	4.1	3
157	The impact of thermal history on the structure of glycylalanyl-glycine ethanol/water gels. <i>Journal of Peptide Science</i> , 2021, 27, e3305.	1.4	2
158	Polarized Resonance Raman Spectroscopy Reveals Two Different Conformers of Metallo(II)octamethylchlorins in CS ₂ . <i>Journal of Physical Chemistry B</i> , 1999, 103, 9777-9781.	2.6	1