Roland Winter

List of Publications by Year
in descending order

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478 papers	16,806 citations	12303 69 h-index	37111 96 g-index
516 all docs	516 docs citations	516 times ranked	11908 citing authors

#	Article	IF	Citations
1	Amyloidogenic Self-Assembly of Insulin Aggregates Probed by High Resolution Atomic Force Microscopy. Biophysical Journal, 2005, 88, 1344-1353.	0.2	261
2	Structural characterization of the pressure-denatured state and unfolding/refolding kinetics of staphylococcal nuclease by synchrotron small-angle X-ray scattering and Fourier-transform infrared spectroscopy 1 1Edited by P. E. Wright. Journal of Molecular Biology, 1998, 275, 389-402.	2.0	259
3	Origins of life and biochemistry under high-pressure conditions. Chemical Society Reviews, 2006, 35, 858.	18.7	231
4	Effect of pressure on membranes. Soft Matter, 2009, 5, 3157.	1.2	201
5	Exploring the Temperatureâ^'Pressure Phase Diagram of Staphylococcal Nucleaseâ€. Biochemistry, 1999, 38, 4157-4164.	1.2	193
6	Differences between the Pressure- and Temperature-Induced Denaturation and Aggregation of Î²-Lactoglobulin A, B, and AB Monitored by FT-IR Spectroscopy and Small-Angle X-ray Scattering. Biochemistry, 1999, 38, 6512-6519.	1.2	184
7	Protein Encapsulation in Mesoporous Silicate:Â The Effects of Confinement on Protein Stability, Hydration, and Volumetric Properties. Journal of the American Chemical Society, 2004, 126, 12224-12225.	6.6	181
8	Mechanism of Islet Amyloid Polypeptide Fibrillation at Lipid Interfaces Studied by Infrared Reflection Absorption Spectroscopy. Biophysical Journal, 2007, 93, 3132-3141.	0.2	175
9	Aggregation of Bovine Insulin Probed by DSC/PPC Calorimetry and FTIR Spectroscopy. Biochemistry, 2003, 42, 11347-11355.	1.2	168
10	Synchrotron X-ray and neutron small-angle scattering of lyotropic lipid mesophases, model biomembranes and proteins in solution at high pressure. BBA - Proteins and Proteomics, 2002, 1595, 160-184.	2.1	152
11	Effects ofin vivoconditions on amyloid aggregation. Chemical Society Reviews, 2019, 48, 3946-3996.	18.7	148
12	Membrane-Mediated Induction and Sorting of K-Ras Microdomain Signaling Platforms. Journal of the American Chemical Society, 2011, 133, 880-887.	6.6	147
13	A SANS Study of High Pressure Phase Transitions in Model Biomembranes. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1989, 93, 708-717.	0.9	134
14	The static structure factor of cesium over the whole liquid range up to the critical point. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1987, 91, 1327-1330.	0.9	132
15	Volume, expansivity and isothermal compressibility changes associated with temperature and pressure unfolding of staphylococcal nuclease 1 1Edited by C. R. Mathews. Journal of Molecular Biology, 2001, 307, 1091-1102.	2.0	128
16	Temperature- and pressure-dependent phase behavior of monoacylglycerides monoolein and monoelaidin. Biophysical Journal, 1995, 68, 1423-1429.	0.2	126
17	Insulin forms amyloid in a strain-dependent manner: An FT-IR spectroscopic study. Protein Science, 2004, 13, 1927-1932.	3.1	125
18	Visualizing Association of N-Ras in Lipid Microdomains:Â Influence of Domain Structure and Interfacial Adsorption. Journal of the American Chemical Society, 2006, 128, 192-201.	6.6	125

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19	Inhibiting Islet Amyloid Polypeptide Fibril Formation by the Red Wine Compound Resveratrol. ChemBioChem, 2009, 10, 445-449.	1.3	125
20	Differential Properties of the Sterols Cholesterol, Ergosterol, Î²-Sitosterol,trans-7-Dehydrocholesterol, Stigmasterol and Lanosterol on DPPC Bilayer Order. Journal of Physical Chemistry B, 2003, 107, 10658-10664.	1.2	116
21	Effect of hydrostatic pressure on water penetration and rotational dynamics in phospholipid-cholesterol bilayers. Biophysical Journal, 1997, 72, 1264-1277.	0.2	115
22	Coldâ€•and Pressureâ€Induced Dissociation of Protein Aggregates and Amyloid Fibrils. Angewandte Chemie - International Edition, 2008, 47, 6518-6521.	7.2	115
23	Pressure perturbation calorimetric studies of the solvation properties and the thermal unfolding of proteins in solutionâ€"experiments and theoretical interpretation. Physical Chemistry Chemical Physics, 2006, 8, 1249.	1.3	113
24	Ethanol-Perturbed Amyloidogenic Self-Assembly of Insulin:â€‰ Looking for Origins of Amyloid Strains. Biochemistry, 2005, 44, 8948-8958.	1.2	111
25	Quantum Cluster Equilibrium Theory of Liquids:Â Temperature Dependence of Hydrogen Bonding in LiquidN-Methylacetamide Studied by IR Spectra. Journal of Physical Chemistry B, 1998, 102, 9312-9318.	1.2	110
26	On the Temperature-Pressure Free-Energy Landscape of Proteins. ChemPhysChem, 2003, 4, 359-365.	1.0	110
27	Influence of the Lipidation Motif on the Partitioning and Association of N-Ras in Model Membrane Subdomains. Journal of the American Chemical Society, 2009, 131, 1557-1564.	6.6	108
28	High-Pressure Biochemistry and Biophysics. Reviews in Mineralogy and Geochemistry, 2013, 75, 607-648.	2.2	108
29	Solvation-assisted Pressure Tuning of Insulin Fibrillation: From Novel Aggregation Pathways to Biotechnological Applications. Journal of Molecular Biology, 2006, 356, 497-509.	2.0	106
30	Elucidating the Mechanism of Lipid Membrane-Induced IAPP Fibrillogenesis and Its Inhibition by the Red Wine Compound Resveratrol: A Synchrotron X-ray Reflectivity Study. Journal of the American Chemical Society, 2009, 131, 9516-9521.	6.6	106
31	Revealing conformational substates of lipidated N-Ras protein by pressure modulation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 460-465.	3.3	106
32	Effects of Pressure-Induced Membrane Phase Transitions on Inactivation of HorA, an ATP-Dependent Multidrug Resistance Transporter, in Lactobacillus plantarum. Applied and Environmental Microbiology, 2002, 68, 1088-1095.	1.4	105
33	Effect of Osmolytes on Pressureâ€Induced Unfolding of Proteins: A Highâ€Pressure SAXS Study. ChemPhysChem, 2008, 9, 2809-2815.	1.0	104
34	Smallâ€Molecule Inhibitors of Islet Amyloid Polypeptide Fibril Formation. Angewandte Chemie - International Edition, 2008, 47, 4679-4682.	7.2	103
35	Characterization of the Pressure-induced Intermediate and Unfolded State of Red-shifted Green Fluorescent Proteinâ€"A Static and Kinetic FTIR, UV/VIS and Fluorescence Spectroscopy Study. Journal of Molecular Biology, 2003, 330, 1153-1164.	2.0	101
36	Formation of Spanning Water Networks on Protein Surfaces via 2D Percolation Transition. Journal of Physical Chemistry B, 2005, 109, 1988-1998.	1.2	99

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37	Dynamics of Structural Transformations between Lamellar and Inverse Bicontinuous Cubic Lyotropic Phases. Physical Review Letters, 2006, 96, 108102.	2.9	99
38	Pressure-Jump Small-Angle X-Ray Scattering Detected Kinetics of Staphylococcal Nuclease Folding. Biophysical Journal, 2001, 80, 1518-1523.	0.2	98
39	Temperature, Hydrostatic Pressure, and Osmolyte Effects on Liquidâ€“Liquid Phase Separation in Protein Condensates: Physical Chemistry and Biological Implications. Chemistry - A European Journal, 2019, 25, 13049-13069.	1.7	96
40	Solvational Tuning of the Unfolding, Aggregation and Amyloidogenesis of Insulin. Journal of Molecular Biology, 2005, 351, 879-894.	2.0	93
41	Inverse Bicontinuous Cubic Phases in 2:1 Fatty Acid/Phosphatidylcholine Mixtures. The Effects of Chain Length, Hydration, and Temperature. Journal of Physical Chemistry B, 1998, 102, 7251-7261.	1.2	92
42	Pressure-Induced Unfolding/Refolding of Ribonuclease A:Â Static and Kinetic Fourier Transform Infrared Spectroscopy Studyâ€. Biochemistry, 2000, 39, 1862-1869.	1.2	91
43	Effect of temperature on the conformation of lysozyme adsorbed to silica particles. Physical Chemistry Chemical Physics, 2001, 3, 235-239.	1.3	91
44	Exploring the temperatureâ€“pressure configurational landscape of biomolecules: from lipid membranes to proteins. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2005, 363, 537-563.	1.6	91
45	Temperature- and Pressure-Induced Unfolding and Refolding of Ubiquitin:Â A Static and Kinetic Fourier Transform Infrared Spectroscopy Studyâ€. Biochemistry, 2002, 41, 2396-2401.	1.2	90
46	Interplay between Hydrogen Bonding and Macromolecular Architecture Leading to Unusual Phase Behavior in Thermosensitive Microgels. Angewandte Chemie - International Edition, 2008, 47, 338-341.	7.2	90
47	Hydration and Packing Effects on Prion Folding and Î²-Sheet Conversion. Journal of Biological Chemistry, 2004, 279, 32354-32359.	1.6	89
48	Pressureâ€”A Gateway to Fundamental Insights into Protein Solvation, Dynamics, and Function. ChemPhysChem, 2015, 16, 3555-3571.	1.0	87
49	Pressure-jump studies of the folding/unfolding of trp repressor. Journal of Molecular Biology, 1999, 288, 461-475.	2.0	85
50	Effect of temperature, pressure and lipid acyl chain length on the structure and phase behaviour of phospholipidâ€“gramicidin bilayers. Physical Chemistry Chemical Physics, 2000, 2, 4545-4551.	1.3	82
51	Towards an Understanding of the Temperature/ Pressure Configurational and Free-Energy Landscape of Biomolecules. Journal of Non-Equilibrium Thermodynamics, 2007, 32, .	2.4	82
52	Cytotoxicity of Insulin within its Self-assembly and Amyloidogenic Pathways. Journal of Molecular Biology, 2007, 370, 372-384.	2.0	82
53	Crowders and Cosolventsâ€”Major Contributors to the Cellular Milieu and Efficient Means to Counteract Environmental Stresses. ChemPhysChem, 2017, 18, 2951-2972.	1.0	82
54	The effect of high external pressure on DPPC-cholesterol multilamellar vesicles: a pressure-tuning Fourier transform infrared spectroscopy study. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1279, 5-16.	1.4	81

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55	Characterization of the Temperature- and Pressure-Induced Inverse and Reentrant Transition of the Minimum Elastin-Like Polypeptide GVG(VPGVG) by DSC, PPC, CD, and FT-IR Spectroscopy. Biophysical Journal, 2004, 86, 1385-1392.	0.2	81
56	Exploring the Piezophilic Behavior of Natural Cosolvent Mixtures. Angewandte Chemie - International Edition, 2011, 50, 11413-11416.	7.2	79
57	Design principles for highâ€“pressure force fields: Aqueous TMAO solutions from ambient to kilobar pressures. Journal of Chemical Physics, 2016, 144, 144104.	1.2	79
58	High Pressure Promotes Circularly Shaped Insulin Amyloid. Journal of Molecular Biology, 2004, 338, 203-206.	2.0	78
59	Molecular Dynamics Simulations of Staphylococcal Nuclease:Â Properties of Water at the Protein Surface. Journal of Physical Chemistry B, 2004, 108, 15928-15937.	1.2	77
60	Interaction of the anticancer agent Taxol? (paclitaxel) with phospholipid bilayers. , 1999, 46, 141-149.		76
61	Amyloidogenic Propensities and Conformational Properties of ProIAPP and IAPP in the Presence of Lipid Bilayer Membranes. Journal of Molecular Biology, 2009, 389, 907-920.	2.0	75
62	Interaction of hIAPP with Model Raft Membranes and Pancreatic Î²â€Cells: Cytotoxicity of hIAPP Oligomers. ChemBioChem, 2010, 11, 1280-1290.	1.3	75
63	Synthesis of the Rheb and Kâ€Ras4B GTPases. Angewandte Chemie - International Edition, 2010, 49, 6090-6095.	7.2	73
64	RNA Hairpin Folding in the Crowded Cell. Angewandte Chemie - International Edition, 2016, 55, 3224-3228.	7.2	73
65	Kinetics and Mechanism of the Lamellar to Gyroid Inverse Bicontinuous Cubic Phase Transition. Langmuir, 2002, 18, 7384-7392.	1.6	72
66	The Diastereomeric Assembly of Polylysine Is the Low-Volume Pathway for Preferential Formation of Î²-Sheet Aggregates. Journal of the American Chemical Society, 2004, 126, 3762-3768.	6.6	72
67	Crossâ€Amyloid Interaction of AÎ² and IAPP at Lipid Membranes. Angewandte Chemie - International Edition, 2012, 51, 679-683.	7.2	71
68	A molecular tweezer antagonizes seminal amyloids and HIV infection. ELife, 2015, 4, .	2.8	71
69	Modeling the Phase Behavior of the Inverse Hexagonal and Inverse Bicontinuous Cubic Phases in 2:1 Fatty Acid/Phosphatidylcholine Mixtures. Journal of Physical Chemistry B, 1998, 102, 7262-7271.	1.2	70
70	High pressure-jump apparatus for kinetic studies of protein folding reactions using the small-angle synchrotron x-ray scattering technique. Review of Scientific Instruments, 2000, 71, 3895.	0.6	70
71	Kinetics and mechanism of the interconversion of inverse bicontinuous cubic mesophases. Physical Review E, 2005, 72, 011502.	0.8	70
72	Effects of Chaotropic and Kosmotropic Cosolvents on the Pressure-Induced Unfolding and Denaturation of Proteins:Â An FT-IR Study on Staphylococcal Nucleaseâ€. Biochemistry, 2004, 43, 3336-3345.	1.2	69

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73	Temperature and pressure effects on structural and conformational properties of POPC/SM/cholesterol model raft mixturesâ€"a FT-IR, SAXS, DSC, PPC and Laurdan fluorescence spectroscopy study. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 248-258.	1.4	67
74	The Lipid Modifications of Ras that Sense Membrane Environments and Induce Local Enrichment. Angewandte Chemie - International Edition, 2009, 48, 8784-8787.	7.2	67
75	Suppression of IAPP fibrillation at anionic lipid membranes via IAPP-derived amyloid inhibitors and insulin. Biophysical Chemistry, 2010, 150, 73-79.	1.5	67
76	Properties of Spanning Water Networks at Protein Surfaces. Journal of Physical Chemistry B, 2005, 109, 10995-11005.	1.2	65
77	The role of G-domain orientation and nucleotide state on the Ras isoform-specific membrane interaction. European Biophysics Journal, 2012, 41, 801-813.	1.2	64
78	Folding and Unfolding of an Elastinlike Oligopeptide: â€œInverse Temperature Transition,â€•Reentrance, and Hydrogen-Bond Dynamics. Physical Review Letters, 2004, 92, 148101.	2.9	63
79	Copolymer Microgels from Mono- and Disubstituted Acrylamides: Phase Behavior and Hydrogen Bonds. Macromolecules, 2008, 41, 6830-6836.	2.2	63
80	Effects of hydrostatic pressure on lipid and surfactant phases. Current Opinion in Colloid and Interface Science, 2001, 6, 303-312.	3.4	62
81	The small-angle and wide-angle X-ray scattering set-up at beamline BL9 of DELTA. Journal of Synchrotron Radiation, 2007, 14, 244-251.	1.0	61
82	Effect of Cholesterol and Ergosterol on the Compressibility and Volume Fluctuations of Phospholipid-Sterol Bilayers in the Critical Point Region: A Molecular Acoustic and Calorimetric Study. Biophysical Journal, 2008, 94, 3538-3548.	0.2	61
83	Fluorescence microscopy studies on islet amyloid polypeptide fibrillation at heterogeneous and cellular membrane interfaces and its inhibition by resveratrol. FEBS Letters, 2009, 583, 1439-1445.	1.3	60
84	Nonlinear Pressure Dependence of the Interaction Potential of Dense Protein Solutions. Physical Review Letters, 2011, 106, 178102.	2.9	60
85	Interrogating the Structural Dynamics and Energetics of Biomolecular Systems with Pressure Modulation. Annual Review of Biophysics, 2019, 48, 441-463.	4.5	60
86	Macromolecular Crowding as a Suppressor of Human IAPP Fibril Formation and Cytotoxicity. PLoS ONE, 2013, 8, e69652.	1.1	59
87	Modulation of human IAPP fibrillation: cosolutes, crowders and chaperones. Physical Chemistry Chemical Physics, 2015, 17, 8338-8348.	1.3	59
88	Combined pressure and cosolvent effects on enzyme activity â€" a high-pressure stopped-flow kinetic study on Î±-chymotrypsin. Physical Chemistry Chemical Physics, 2015, 17, 23273-23278.	1.3	59
89	The cholesterol transfer protein GRAMD1A regulates autophagosome biogenesis. Nature Chemical Biology, 2019, 15, 710-720.	3.9	59
90	Pressure-Sensitive and Osmolyte-Modulated Liquidâ€"Liquid Phase Separation of Eye-Lens Î³-Crystallins. Journal of the American Chemical Society, 2019, 141, 7347-7354.	6.6	59

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91	Pressure effects on the structure of lyotropic lipid mesophases and model biomembrane systems. Zeitschrift Fur Kristallographie - Crystalline Materials, 2000, 215, 454-474.	0.4	58
92	Percolation Transition of Hydration Water: From Planar Hydrophilic Surfaces to Proteins. Physical Review Letters, 2005, 95, 247802.	2.9	58
93	The Amino-Terminal PrP Domain Is Crucial to Modulate Prion Misfolding and Aggregation. Biophysical Journal, 2005, 89, 2667-2676.	0.2	57
94	Kinetics of Lamellar-to-Cubic and Intercubic Phase Transitions of Pure and Cytochrome c Containing Monoolein Dispersions Monitored by Time-Resolved Small-Angle X-ray Diffraction. Langmuir, 2005, 21, 3559-3571.	1.6	57
95	A Pressure-Jump Time-Resolved X-ray Diffraction Study of Cubicâ"Cubic Transition Kinetics in Monoolein. Langmuir, 2008, 24, 2331-2340.	1.6	57
96	The Effect of AÎ² on IAPP Aggregation in the Presence of an Isolated Î²-Cell Membrane. Journal of Molecular Biology, 2012, 421, 348-363.	2.0	57
97	Effect of high pressure on the structure of dipalmitoylphosphatidylcholine bilayer membranes: a synchrotron-X-ray diffraction and FT-IR spectroscopy study using the diamond anvil technique. Chemistry and Physics of Lipids, 1998, 91, 135-144.	1.5	56
98	Partitioning of Dual-Lipidated Peptides into Membrane Microdomains:Â Lipid Sorting vs Peptide Aggregation. Journal of the American Chemical Society, 2004, 126, 7496-7503.	6.6	56
99	Effects of Specific versus Nonspecific Ionic Interactions on the Structure and Lateral Organization of Lipopolysaccharides. Biophysical Journal, 2011, 100, 2169-2177.	0.2	56
100	Towards a Quantitative Understanding of Protein Hydration and Volumetric Properties. ChemPhysChem, 2008, 9, 2715-2721.	1.0	55
101	NMR Spectroscopic Investigation of Early Events in IAPP Amyloid Fibril Formation. ChemBioChem, 2009, 10, 1769-1772.	1.3	55
102	The structural properties of liquid sulphur. Journal of Physics Condensed Matter, 1990, 2, 8427-8437.	0.7	54
103	Nonspecific Prion Proteinâ€"Nucleic Acid Interactions Lead to Different Aggregates and Cytotoxic Species. Biochemistry, 2012, 51, 5402-5413.	1.2	54
104	Hydrostatic Pressure Increases the Catalytic Activity of Amyloid Fibril Enzymes. Angewandte Chemie - International Edition, 2016, 55, 12412-12416.	7.2	54
105	On the Norbornyl Cation Problem. Journal of the American Chemical Society, 1963, 85, 169-173.	6.6	53
106	Inverse bicontinuous cubic phases in fatty acid/phosphatidylcholine mixtures: the effects of pressure and lipid composition. Physical Chemistry Chemical Physics, 1999, 1, 887-893.	1.3	53
107	Pressure Perturbation Calorimetry: A New Technique Provides Surprising Results on the Effects of Co-solvents on Protein Solvation and Unfolding Behaviour. ChemPhysChem, 2004, 5, 566-571.	1.0	53
108	Proteinâ€"Protein Interactions in Complex Cosolvent Solutions. ChemPhysChem, 2007, 8, 679-689.	1.0	53

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109	Effect of Pressure on Islet Amyloid Polypeptide Aggregation: Revealing the Polymorphic Nature of the Fibrillation Process. Biochemistry, 2008, 47, 6352-6360.	1.2	53
110	Volumetric Properties of Hydrated Peptides: Voronoiâ€“Delaunay Analysis of Molecular Simulation Runs. Journal of Physical Chemistry B, 2011, 115, 14217-14228.	1.2	53
111	The Effect of Ionic Strength, Temperature, and Pressure on the Interaction Potential of Dense Protein Solutions: From Nonlinear Pressure Response to Protein Crystallization. Biophysical Journal, 2012, 102, 2641-2648.	0.2	53
112	pH-Driven Polymorphism of Insulin Amyloid-Like Fibrils. PLoS ONE, 2015, 10, e0136602.	1.1	53
113	Reentrant Liquid-Liquid Phase Separation in Protein Solutions at Elevated Hydrostatic Pressures. Physical Review Letters, 2014, 112, 028101.	2.9	52
114	Misplaced helix slows down ultrafast pressure-jump protein folding. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 8087-8092.	3.3	51
115	The effect of fluoride on the sol-gel process. Journal of Non-Crystalline Solids, 1988, 105, 214-222.	1.5	50
116	The electrical conductivity of expanded liquid caesium. Journal of Physics Condensed Matter, 1992, 4, 1659-1669.	0.7	50
117	On the existence of bicontinuous cubic phases in dioleoylphosphatidylethanolamine. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1994, 98, 1287-1293.	0.9	50
118	Pressure Effects on the Structure and Phase Behavior of DMPC-Gramicidin Lipid Bilayers: A Synchrotron SAXS and 2H-NMR Spectroscopy Study. Biophysical Journal, 2006, 90, 956-966.	0.2	50
119	Thermal breaking of spanning water networks in the hydration shell of proteins. Journal of Chemical Physics, 2005, 123, 224905.	1.2	49
120	Insertion of Lipidated Ras Proteins into Lipid Monolayers Studied by Infrared Reflection Absorption Spectroscopy (IRRAS). Biophysical Journal, 2006, 91, 1388-1401.	0.2	49
121	A molecular dynamics simulation of SNase and its hydration shell at high temperature and high pressure. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2006, 1764, 522-534.	1.1	49
122	Comparing the structural properties of human and rat islet amyloid polypeptide by MD computer simulations. Biophysical Chemistry, 2011, 156, 43-50.	1.5	49
123	Structure of Expanded Fluid Metals. Physics and Chemistry of Liquids, 1989, 20, 1-15.	0.4	48
124	Zinc-1,4-benzenedicarboxylate-bipyridine frameworks â€“ linker functionalization impacts network topology during solvothermal synthesis. Journal of Materials Chemistry, 2012, 22, 909-918.	6.7	48
125	Pressure perturbation calorimetic studies of the solvation properties and the thermal unfolding of staphylococcal nuclease. Physical Chemistry Chemical Physics, 2004, 6, 1952.	1.3	47
126	Toward Extreme Biophysics: Deciphering the Infrared Response of Biomolecular Solutions at High Pressures. Angewandte Chemie - International Edition, 2016, 55, 9534-9538.	7.2	47

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127	Structure and dynamics of expanded liquid alkali metals. Journal of Non-Crystalline Solids, 1993, 156-158, 9-14.	1.5	46
128	Cosolvent effects on the fibrillation reaction of human IAPP. Physical Chemistry Chemical Physics, 2013, 15, 8902.	1.3	46
129	Calculation of the volumetric characteristics of biomacromolecules in solution by the Voronoiâ€“Delaunay technique. Biophysical Chemistry, 2014, 192, 1-9.	1.5	46
130	TMAO and urea in the hydration shell of the protein SNase. Physical Chemistry Chemical Physics, 2017, 19, 6345-6357.	1.3	46
131	Solvation properties and stability of ribonuclease A in normal and deuterated water studied by dielectric relaxation and differential scanning/pressure perturbation calorimetry. Physical Chemistry Chemical Physics, 2004, 6, 1899-1905.	1.3	44
132	Hydration and structureâ€”the two sides of the insulin aggregation process. Physical Chemistry Chemical Physics, 2004, 6, 1938-1943.	1.3	44
133	The Effects of Lipid Membranes, Crowding and Osmolytes on the Aggregation, and Fibrillation Propensity of Human IAPP. Journal of Diabetes Research, 2015, 2015, 1-21.	1.0	44
134	Regulation of K-Ras4B Membrane Binding by Calmodulin. Biophysical Journal, 2016, 111, 113-122.	0.2	44
135	High-Pressure SAXS Study of Folded and Unfolded Ensembles of Proteins. Biophysical Journal, 2010, 99, 3430-3437.	0.2	43
136	Temperatureâ€“pressure phase diagram of a heterogeneous anionic model biomembrane system: Results from a combined calorimetry, spectroscopy and microscopy study. Biochimica Et Biophysica Acta - Biomembranes, 2011, 1808, 1187-1195.	1.4	42
137	Toward Copolymers with Ideal Thermosensitivity: Solution Properties of Linear, Well-Defined Polymers of N-Isopropyl Acrylamide and N,N-Diethyl Acrylamide. Macromolecules, 2012, 45, 8021-8026.	2.2	42
138	Crowding effects on the temperature and pressure dependent structure, stability and folding kinetics of Staphylococcal Nuclease. Physical Chemistry Chemical Physics, 2014, 16, 5965.	1.3	42
139	Effect of Temperature, Pressure, and Cosolvents on Structural and Dynamic Properties of the Hydration Shell of SNase:â€‰ A Molecular Dynamics Computer Simulation Study. Journal of Physical Chemistry B, 2008, 112, 997-1006.	1.2	40
140	Fourier Transform Infrared Spectroscopy Provides a Fingerprint for the Tetramer and for the Aggregates of Transthyretin. Biophysical Journal, 2006, 91, 957-967.	0.2	39
141	Pressure Tuning of the Morphology of Heterogeneous Lipid Vesicles: A Two-Photon-Excitation Fluorescence Microscopy Study. Biophysical Journal, 2006, 91, 2936-2942.	0.2	39
142	Influence of the local anesthetic tetracaine on the phase behavior and the thermodynamic properties of phospholipid bilayers. Biophysical Journal, 1993, 65, 2041-2046.	0.2	38
143	High Pressure Volumetric Measurements on Phospholipid Bilayers. Zeitschrift Fur Physikalische Chemie, 1994, 184, 205-218.	1.4	38
144	Pressure Perturbation and Differential Scanning Calorimetric Studies of Bipolar Tetraether Liposomes Derived from the Thermoacidophilic Archaeon Sulfolobus acidocaldarius. Biophysical Journal, 2005, 89, 1841-1849.	0.2	38

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145	Unique Features of the Folding Landscape of a Repeat Protein Revealed byÂPressure Perturbation. Biophysical Journal, 2010, 98, 2712-2721.	0.2	38
146	Applications of pressure perturbation calorimetry in biophysical studies. Biophysical Chemistry, 2011, 156, 13-23.	1.5	38
147	Kinetics of phase transformations between lyotropic lipid mesophases of different topology: a time-resolved synchrotron X-ray diffraction study using the pressure-jump relaxation technique. Physical Chemistry Chemical Physics, 2000, 2, 151-162.	1.3	37
148	Modulation of Concentration Fluctuations in Phase-Separated Lipid Membranes by Polypeptide Insertion. Biophysical Journal, 2002, 83, 334-344.	0.2	37
149	Influence of cosolvents, self-crowding, temperature and pressure on the sub-nanosecond dynamics and folding stability of lysozyme. Physical Chemistry Chemical Physics, 2017, 19, 14230-14237.	1.3	37
150	Co-solvent effects on reaction rate and reaction equilibrium of an enzymatic peptide hydrolysis. Physical Chemistry Chemical Physics, 2018, 20, 11317-11326.	1.3	37
151	Structure and forces in expanded liquid cesium. The Journal of Physical Chemistry, 1988, 92, 7171-7174.	2.9	36
152	Relating structure and translational dynamics in aqueous dispersions of monoolein. Chemistry and Physics of Lipids, 2000, 106, 115-126.	1.5	36
153	Thermodynamic Properties Underlying the Î±-Helix-to-Î²-Sheet Transition, Aggregation, and Amyloidogenesis of Polylysine as Probed by Calorimetry, Densimetry, and Ultrasound Velocimetry. Journal of Physical Chemistry B, 2005, 109, 19043-19045.	1.2	36
154	Protein Amyloidogenesis in the Context of Volume Fluctuations: A Case Study on Insulin. ChemPhysChem, 2006, 7, 1046-1049.	1.0	36
155	Capturing the Interaction Potential of Amyloidogenic Proteins. Physical Review Letters, 2007, 99, 028101.	2.9	36
156	Dissociation of the K-Ras4B/PDEÎ´ Complex upon Contact with Lipid Membranes: Membrane Delivery Instead of Extraction. Journal of the American Chemical Society, 2012, 134, 11503-11510.	6.6	36
157	Influence of Pressure and Crowding on the Sub-Nanosecond Dynamics of Globular Proteins. Journal of Physical Chemistry B, 2015, 119, 4842-4848.	1.2	36
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