Roland Winter

List of Publications by Year
in descending order

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478 papers	16,806 citations	12322 69 h-index	37183 96 g-index
516 all docs	516 docs citations	516 times ranked	11908 citing authors

#	Article	IF	Citations
1	Modulation of the Conformational Space of SARSâ€CoVâ€2 RNA Quadruplex RGâ€1â€‰by Cellular Components and the Amyloidogenic Peptides Î±â€Synuclein and hIAPP. Chemistry - A European Journal, 2022, 28, .	1.7	15
2	Hidden intermediates in Mango III RNA aptamer folding revealed by pressure perturbation. Biophysical Journal, 2022, 121, 421-429.	0.2	7
3	The C-terminus of the GKY20 antimicrobial peptide, derived from human thrombin, plays a key role in its membrane perturbation capability. Physical Chemistry Chemical Physics, 2022, 24, 7994-8002.	1.3	3
4	Effects of Cosolvents and Crowding Agents on the Stability and Phase Transition Kinetics of the SynGAP/PSD-95 Condensate Model of Postsynaptic Densities. Journal of Physical Chemistry B, 2022, 126, 1734-1741.	1.2	9
5	Alkanes as Membrane Regulators of the Response of Early Membranes to Extreme Temperatures. Life, 2022, 12, 445.	1.1	5
6	Structural Responses of Nucleic Acids to Mars-Relevant Salts at Deep Subsurface Conditions. Life, 2022, 12, 677.	1.1	3
7	Binding Properties of RNA Quadruplex of SARS-CoV-2 to Berberine Compared to Telomeric DNA Quadruplex. International Journal of Molecular Sciences, 2022, 23, 5690.	1.8	12
8	Gelation Dynamics upon Pressure-Induced Liquidâ€“Liquid Phase Separation in a Waterâ€“Lysozyme Solution. Journal of Physical Chemistry B, 2022, 126, 4160-4167.	1.2	10
9	Deep sea osmolytes in action: their effect on proteinâ€“ligand binding under high pressure stress. Physical Chemistry Chemical Physics, 2022, 24, 17966-17978.	1.3	8
10	Exploring the polymorphism, conformational dynamics and function of amyloidogenic peptides and proteins by temperature and pressure modulation. Biophysical Chemistry, 2021, 268, 106506.	1.5	14
11	Exploring Enzymatic Activity in Multiparameter Space: Cosolvents, Macromolecular Crowders and Pressure. ChemSystemsChem, 2021, 3, e2000029.	1.1	2
12	Untangling the interaction of Î±-synuclein with DNA i-motifs and hairpins by volume-sensitive single-molecule FRET spectroscopy. RSC Chemical Biology, 2021, 2, 1196-1200.	2.0	9
13	Liquid droplets of protein LAF1 provide a vehicle to regulate storage of the signaling protein K-Ras4B and its transport to the lipid membrane. Physical Chemistry Chemical Physics, 2021, 23, 5370-5375.	1.3	5
14	Structural responses of model biomembranes to Mars-relevant salts. Physical Chemistry Chemical Physics, 2021, 23, 14212-14223.	1.3	6
15	Harnessing Pressure Modulation for Exploring Ligand Binding Reactions in Cosolvent Solutions. Journal of Physical Chemistry B, 2021, 125, 539-546.	1.2	10
16	Insights into the Action Mechanism of the Antimicrobial Peptide Lasioglossin III. International Journal of Molecular Sciences, 2021, 22, 2857.	1.8	22
17	Biomolecular Condensates under Extreme Martian Salt Conditions. Journal of the American Chemical Society, 2021, 143, 5247-5259.	6.6	27
18	Unraveling the binding characteristics of small ligands to telomeric DNA by pressure modulation. Scientific Reports, 2021, 11, 9714.	1.6	13

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19	Characterisation of a synthetic Archeal membrane reveals a possible new adaptation route to extreme conditions. Communications Biology, 2021, 4, 653.	2.0	19
20	Towards DNAâ€Encoded Micellar Chemistry: DNAâ€Micelle Association and Environment Sensitivity of Catalysis. Chemistry - A European Journal, 2021, 27, 10048-10057.	1.7	8
21	Non-Polar Lipids as Regulators of Membrane Properties in Archaeal Lipid Bilayer Mimics. International Journal of Molecular Sciences, 2021, 22, 6087.	1.8	3
22	The Effects of Temperature and Pressure on Protein-Ligand Binding in the Presence of Mars-Relevant Salts. Biology, 2021, 10, 687.	1.3	10
23	Remodeling of the Fibrillation Pathway of Î±â€Synuclein by Interaction with Antimicrobial Peptide LLâ€II. Chemistry - A European Journal, 2021, 27, 11845-11851.	1.7	12
24	The N-terminal domain of the prion protein is required and sufficient for liquidâ€“liquid phase separation: A crucial role of the AÎ²-binding domain. Journal of Biological Chemistry, 2021, 297, 100860.	1.6	19
25	Perchlorate salts confer psychrophilic characteristics in Î±-chymotrypsin. Scientific Reports, 2021, 11, 16523.	1.6	5
26	Boosting the kinetic efficiency of formate dehydrogenase by combining the effects of temperature, high pressure and co-solvent mixtures. Colloids and Surfaces B: Biointerfaces, 2021, 208, 112127.	2.5	17
27	Impact of the number of rhamnose moieties of rhamnolipids on the structure, lateral organization and morphology of model biomembranes. Soft Matter, 2021, 17, 3191-3206.	1.2	5
28	Bipolar Imidazolium-Based Lipid Analogues for Artificial Archaeosomes. Langmuir, 2021, 37, 11996-12006.	1.6	2
29	Ions in the Deep Subsurface of Earth, Mars, and Icy Moons: Their Effects in Combination with Temperature and Pressure on tRNAâ€“Ligand Binding. International Journal of Molecular Sciences, 2021, 22, 10861.	1.8	3
30	Pressure-dependent electronic structure calculations using integral equation-based solvation models. Biophysical Chemistry, 2020, 257, 106258.	1.5	14
31	Modulation of enzymatic activity by aqueous two-phase systems and pressure â€“ rivalry between kinetic constants. Chemical Communications, 2020, 56, 395-398.	2.2	15
32	Remodeling of the Conformational Dynamics of Noncanonical DNA Structures by Monomeric and Aggregated Î±-Synuclein. Journal of the American Chemical Society, 2020, 142, 18299-18303.	6.6	10
33	Interaction of rhamnolipids with model biomembranes of varying complexity. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183431.	1.4	21
34	An Imidazoliumâ€Based Lipid Analogue as a Gene Transfer Agent. Chemistry - A European Journal, 2020, 26, 17176-17182.	1.7	12
35	The effects of cosolutes and crowding on the kinetics of protein condensate formation based on liquidâ€“liquid phase separation: a pressure-jump relaxation study. Scientific Reports, 2020, 10, 17245.	1.6	21
36	High pressures increase Î±-chymotrypsin enzyme activity under perchlorate stress. Communications Biology, 2020, 3, 550.	2.0	14

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37	Supramolecular Mechanism of Viral Envelope Disruption by Molecular Tweezers. Journal of the American Chemical Society, 2020, 142, 17024-17038.	6.6	31
38	Perturbation of liquid droplets of P-granule protein LAF-1 by the antimicrobial peptide LL-III. Chemical Communications, 2020, 56, 11577-11580.	2.2	13
39	Alteration of Protein Binding Affinities by Aqueous Two-Phase Systems Revealed by Pressure Perturbation. Scientific Reports, 2020, 10, 8074.	1.6	18
40	On the extraordinary pressure stability of the Thermotoga maritima arginine binding protein and its folded fragments â€“ a high-pressure FTIR spectroscopy study. Physical Chemistry Chemical Physics, 2020, 22, 11244-11248.	1.3	2
41	Alteration of the Conformational Dynamics of a DNA Hairpin by Î±â€Synuclein in the Presence of Aqueous Twoâ€Phase Systems. Chemistry - A European Journal, 2020, 26, 10987-10991.	1.7	3
42	Characterization of the Spatial Organization of Raf Isoforms Interacting with K-Ras4B in the Lipid Membrane. Langmuir, 2020, 36, 5944-5953.	1.6	6
43	Influence of thermally induced structure changes in diluted Î²-lactoglobulin solutions on their surface activity and behavior in foam fractionation. Journal of Biotechnology, 2020, 319, 61-68.	1.9	13
44	The multifaceted effects of DMSO and high hydrostatic pressure on the kinetic constants of hydrolysis reactions catalyzed by Î±-chymotrypsin. Physical Chemistry Chemical Physics, 2020, 22, 16325-16333.	1.3	9
45	Editorial â€œHigh-pressure biophysical chemistry: Exploring the dynamical landscape of biomolecular systems by pressure perturbationâ€. Biophysical Chemistry, 2020, 258, 106328.	1.5	1
46	Pressure Sensitivity of SynGAP/PSDâ€95 Condensates as a Model for Postsynaptic Densities and Its Biophysical and Neurological Ramifications. Chemistry - A European Journal, 2020, 26, 11024-11031.	1.7	13
47	Stability of the chaperonin system GroELâ€“GroES under extreme environmental conditions. Physical Chemistry Chemical Physics, 2020, 22, 3734-3743.	1.3	4
48	Interaction of imidazolium-based lipids with phospholipid bilayer membranes of different complexity. Physical Chemistry Chemical Physics, 2020, 22, 9775-9788.	1.3	18
49	Liquidâ€“liquid phase separation rescues the conformational stability of a DNA hairpin from pressureâ€“stress. Chemical Communications, 2019, 55, 10673-10676.	2.2	8
50	Effects of the deep-sea osmolyte TMAO on the temperature and pressure dependent structure and phase behavior of lipid membranes. Physical Chemistry Chemical Physics, 2019, 21, 18533-18540.	1.3	19
51	Encapsulating properties of sulfobutylether-Î²-cyclodextrin toward a thrombin-derived antimicrobial peptide. Journal of Thermal Analysis and Calorimetry, 2019, 138, 3249-3256.	2.0	10
52	A hydroxylamine probe for profiling S-acylated fatty acids on proteins. Chemical Communications, 2019, 55, 11183-11186.	2.2	12
53	Dynamics of TMAO and urea in the hydration shell of the protein SNase. Physical Chemistry Chemical Physics, 2019, 21, 19469-19479.	1.3	12
54	The pressure and temperature perturbation approach reveals a whole variety of conformational substates of amyloidogenic hIAPP monitored by 2D NMR spectroscopy. Biophysical Chemistry, 2019, 254, 106239.	1.5	12

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55	Membrane disintegration by the antimicrobial peptide (P)GKY20: lipid segregation and domain formation. Physical Chemistry Chemical Physics, 2019, 21, 3989-3998.	1.3	26
56	Single-molecule insights into the temperature and pressure dependent conformational dynamics of nucleic acids in the presence of crowders and osmolytes. Biophysical Chemistry, 2019, 251, 106190.	1.5	13
57	The cholesterol transfer protein GRAMD1A regulates autophagosome biogenesis. Nature Chemical Biology, 2019, 15, 710-720.	3.9	59
58	Cosolvent and pressure effects on enzyme-catalysed hydrolysis reactions. Biophysical Chemistry, 2019, 252, 106209.	1.5	10
59	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
60	Osmolytes modify protein dynamics and function of tetrameric lactate dehydrogenase upon pressurization. Physical Chemistry Chemical Physics, 2019, 21, 12806-12817.	1.3	9
61	Analyzing protein-ligand and protein-interface interactions using high pressure. Biophysical Chemistry, 2019, 252, 106194.	1.5	8
62	Dissociation of the Signaling Protein Kâ€Ras4B from Lipid Membranes Induced by a Molecular Tweezer. Chemistry - A European Journal, 2019, 25, 9827-9833.	1.7	5
63	Effects ofin vivoconditions on amyloid aggregation. Chemical Society Reviews, 2019, 48, 3946-3996.	18.7	148
64	Cosolvent and Crowding Effects on the Temperatureâ€•and Pressureâ€Ðependent Dissociation Process of the Î±/Î²â€Tubulin Heterodimer. ChemPhysChem, 2019, 20, 1068-1068.	1.0	0
65	Effect of ectoine, hydroxyectoine and Î²-hydroxybutyrate on the temperature and pressure stability of phospholipid bilayer membranes of different complexity. Colloids and Surfaces B: Biointerfaces, 2019, 178, 404-411.	2.5	15
66	Cosolvent and Crowding Effects on the Temperatureâ€•and Pressureâ€Ðependent Dissociation Process of the Î±/Î²â€Tubulin Heterodimer. ChemPhysChem, 2019, 20, 1098-1109.	1.0	8
67	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
68	Interrogating the Structural Dynamics and Energetics of Biomolecular Systems with Pressure Modulation. Annual Review of Biophysics, 2019, 48, 441-463.	4.5	60
69	Impact of Macromolecular Crowding and Compression on Proteinâ€“Protein Interactions and Liquidâ€“Liquid Phase Separation Phenomena. Macromolecules, 2019, 52, 1772-1784.	2.2	34
70	Impact of Y³⁺-ions on the structure and phase behavior of phospholipid model membranes. Physical Chemistry Chemical Physics, 2019, 21, 5730-5743.	1.3	12
71	Frontispiece: 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, .	1.7	0
72	Combined co-solvent and pressure effect on kinetics of a peptide hydrolysis: an activity-based approach. Physical Chemistry Chemical Physics, 2019, 21, 22224-22229.	1.3	22

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73	The small molecule inhibitor anle145c thermodynamically traps human islet amyloid peptide in the form of non-cytotoxic oligomers. Scientific Reports, 2019, 9, 19023.	1.6	16
74	Probing Colocalization of Nâ€Ras and Kâ€Ras4B Lipoproteins in Model Biomembranes. ChemBioChem, 2019, 20, 1190-1195.	1.3	4
75	Exploring the effects of cosolutes and crowding on the volumetric and kinetic profile of the conformational dynamics of a poly dA loop DNA hairpin: a single-molecule FRET study. Nucleic Acids Research, 2019, 47, 981-996.	6.5	31
76	Effect of hyaluronic acid on phospholipid model membranes. Colloids and Surfaces B: Biointerfaces, 2019, 173, 327-334.	2.5	20
77	The effects of osmolytes and crowding on the pressure-induced dissociation and inactivation of dimeric LADH. Physical Chemistry Chemical Physics, 2018, 20, 7093-7104.	1.3	13
78	Pressure and cosolvent modulation of the catalytic activity of amyloid fibrils. Chemical Communications, 2018, 54, 5696-5699.	2.2	14
79	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
80	Interaction of KRas4B protein with C6-ceramide containing lipid model membranes. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1008-1014.	1.4	2
81	Entropically driven Polymeric Enzyme Inhibitors by Endâ€Group directed Conjugation. Chemistry - A European Journal, 2018, 24, 4523-4527.	1.7	17
82	The Effect of Natural Osmolyte Mixtures on the Temperature-Pressure Stability of the Protein RNase A. Zeitschrift Fur Physikalische Chemie, 2018, 232, 615-634.	1.4	10
83	A high pressure study of calmodulinâ€“ligand interactions using small-angle X-ray and elastic incoherent neutron scattering. Physical Chemistry Chemical Physics, 2018, 20, 3514-3522.	1.3	8
84	UNC119A Decreases the Membrane Binding of Myristoylated câ€Src. ChemBioChem, 2018, 19, 1482-1487.	1.3	1
85	On the Origin of Microtubulesâ€™ High-Pressure Sensitivity. Biophysical Journal, 2018, 114, 1080-1090.	0.2	17
86	Properties of Hydrogen-Bonded Liquids at Interfaces. Zeitschrift Fur Physikalische Chemie, 2018, 232, 937-972.	1.4	16
87	High-Pressure NMR and SAXS Reveals How Capping Modulates Folding Cooperativity of the pp32 Leucine-rich Repeat Protein. Journal of Molecular Biology, 2018, 430, 1336-1349.	2.0	7
88	Antagonistic effects of natural osmolyte mixtures and hydrostatic pressure on the conformational dynamics of a DNA hairpin probed at the single-molecule level. Physical Chemistry Chemical Physics, 2018, 20, 13159-13170.	1.3	28
89	Effects of Cosolvents and Macromolecular Crowding on the Phase Transitions and Temperature-Pressure Stability of Chiral and Racemic Poly-Lysine. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1111-1125.	1.4	4
90	The effects of glycine, TMAO and osmolyte mixtures on the pressure dependent enzymatic activity of Î±-chymotrypsin. Physical Chemistry Chemical Physics, 2018, 20, 1347-1354.	1.3	26

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91	Combined effects of osmotic and hydrostatic pressure on multilamellar lipid membranes in the presence of PEG and trehalose. Soft Matter, 2018, 14, 8792-8802.	1.2	17
92	Exploring the influence of natural cosolvents on the free energy and conformational landscape of filamentous actin and microtubules. Physical Chemistry Chemical Physics, 2018, 20, 28400-28411.	1.3	9
93	Viral Fusion Peptides Incorporated in Monoolein Membranes: Secondary Structure and Lipid Phase Behavior. Biophysical Journal, 2018, 114, 603a.	0.2	0
94	Comparison of Calmodulin Ligand Interactions by High Pressure X-Ray and Neutron Scattering. Biophysical Journal, 2018, 114, 419a.	0.2	0
95	Impact of kilobar pressures on ultrafast triazene and thiacyanine photodynamics. Physical Chemistry Chemical Physics, 2018, 20, 18169-18175.	1.3	5
96	Elastin-like Peptide in Confinement: FT-IR and NMR T1 Relaxation Data. Zeitschrift Fur Physikalische Chemie, 2018, 232, 1239-1261.	1.4	7
97	Water-Mediated Protein-Protein Interactions at High Pressures are Controlled by a Deep-Sea Osmolyte. Physical Review Letters, 2018, 121, 038101.	2.9	30
98	The Deep Sea Osmolyte Trimethylamine Nâ€Oxide and Macromolecular Crowders Rescue the Antiparallel Conformation of the Human Telomeric Gâ€Quadruplex from Urea and Pressure Stress. Chemistry - A European Journal, 2018, 24, 14346-14351.	1.7	28
99	Pressureâ€Induced Dissolution and Reentrant Formation of Condensed, Liquidâ€“Liquid Phaseâ€Separated Elastomeric Î±â€Elastin. Chemistry - A European Journal, 2018, 24, 8286-8291.	1.7	36
100	The consequences of cavity creation on the folding landscape of a repeat protein depend upon context. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8153-E8161.	3.3	17
101	Modulation of the Thermodynamic Signatures of an RNA Thermometer by Osmolytes and Salts. Angewandte Chemie, 2017, 129, 2342-2346.	1.6	11
102	Modulation of the Thermodynamic Signatures of an RNA Thermometer by Osmolytes and Salts. Angewandte Chemie - International Edition, 2017, 56, 2302-2306.	7.2	28
103	Modulation of the Polymerization Kinetics of Î±/Î²-Tubulin by Osmolytes and Macromolecular Crowding. ChemPhysChem, 2017, 18, 174-174.	1.0	2
104	TMAO and urea in the hydration shell of the protein SNase. Physical Chemistry Chemical Physics, 2017, 19, 6345-6357.	1.3	46
105	Titelbild: Modulation of the Thermodynamic Signatures of an RNA Thermometer by Osmolytes and Salts (Angew. Chem. 9/2017). Angewandte Chemie, 2017, 129, 2255-2255.	1.6	0
106	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
107	Pressure modulates the self-cleavage step of the hairpin ribozyme. Nature Communications, 2017, 8, 14661.	5.8	22
108	Phosphorylation Weakens but Does Not Inhibit Membrane Binding and Clustering of K-Ras4B. ACS Chemical Biology, 2017, 12, 1703-1710.	1.6	33

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109	Osmolyte Effects on the Conformational Dynamics of a DNA Hairpin at Ambient and Extreme Environmental Conditions. Angewandte Chemie - International Edition, 2017, 56, 5045-5049.	7.2	33
110	Influence of isoform-specific Ras lipidation motifs on protein partitioning and dynamics in model membrane systems of various complexity. Biological Chemistry, 2017, 398, 547-563.	1.2	25
111	Stimulated Transitions of Directed Nonequilibrium Selfâ€Assemblies. Advanced Materials, 2017, 29, 1703495.	11.1	25
112	Enzymatic activity under pressure. MRS Bulletin, 2017, 42, 738-742.	1.7	22
113	Lipid Phase Control and Secondary Structure of Viral Fusion Peptides Anchored in Monoolein Membranes. Journal of Physical Chemistry B, 2017, 121, 8492-8502.	1.2	4
114	Osmolyte Effects on the Conformational Dynamics of a DNA Hairpin at Ambient and Extreme Environmental Conditions. Angewandte Chemie, 2017, 129, 5127-5131.	1.6	28
115	Lateral Organization of Host Heterogeneous Raftâ€like Membranes Altered by the Myristoyl Modification of Tyrosine Kinase câ€Src. Angewandte Chemie, 2017, 129, 10647-10651.	1.6	4
116	Crowders and Cosolventsâ€"Major Contributors to the Cellular Milieu and Efficient Means to Counteract Environmental Stresses. ChemPhysChem, 2017, 18, 2951-2972.	1.0	82
117	Elucidation of the Catalytic Mechanism of a Miniature Zinc Finger Hydrolase. Journal of Physical Chemistry B, 2017, 121, 6390-6398.	1.2	20
118	Lateral Organization of Host Heterogeneous Raftâ€like Membranes Altered by the Myristoyl Modification of Tyrosine Kinase câ€Src. Angewandte Chemie - International Edition, 2017, 56, 10511-10515.	7.2	10
119	Modulation of the Polymerization Kinetics of Î±/Î²â€Tubulin by Osmolytes and Macromolecular Crowding. ChemPhysChem, 2017, 18, 189-197.	1.0	31
120	Exploring the effects of temperature and pressure on the structure and stability of a small RNA hairpin. Biophysical Chemistry, 2017, 231, 161-166.	1.5	6
121	Exploring the conformational space and dynamics of biomolecular systems using pressure perturbation. Journal of Physics: Conference Series, 2017, 950, 022002.	0.3	0
122	Temperature and pressure limits of guanosine monophosphate self-assemblies. Scientific Reports, 2017, 7, 9864.	1.6	12
123	Translational Dynamics of Lipidated Ras Proteins in the Presence of Crowding Agents and Compatible Osmolytes. ChemPhysChem, 2016, 17, 2164-2169.	1.0	10
124	Structural basis for the dissociation of Î±-synuclein fibrils triggered by pressure perturbation of the hydrophobic core. Scientific Reports, 2016, 6, 37990.	1.6	35
125	Hydrostatic Pressure Increases the Catalytic Activity of Amyloid Fibril Enzymes. Angewandte Chemie, 2016, 128, 12600-12604.	1.6	7
126	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

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127	RNA Hairpin Folding in the Crowded Cell. Angewandte Chemie - International Edition, 2016, 55, 3224-3228.	7.2	73
128	Faltung einer RNAâ€Haarnadel in der dicht gedrÃngten Zelle. Angewandte Chemie, 2016, 128, 3279-3283.	1.6	10
129	Phase behavior of lysozyme solutions in the liquidâ€“liquid phase coexistence region at high hydrostatic pressures. Physical Chemistry Chemical Physics, 2016, 18, 14252-14256.	1.3	13
130	Binding of Vinculin to Lipid Membranes in Its Inhibited and Activated States. Biophysical Journal, 2016, 111, 1444-1453.	0.2	4
131	Toward Extreme Biophysics: Deciphering the Infrared Response of Biomolecular Solutions at High Pressures. Angewandte Chemie, 2016, 128, 9686-9690.	1.6	4
132	Hydrostatic Pressure Increases the Catalytic Activity of Amyloid Fibril Enzymes. Angewandte Chemie - International Edition, 2016, 55, 12412-12416.	7.2	54
133	Improved activity of Î±-chymotrypsin on silica particles â€“ A high-pressure stopped-flow study. Biophysical Chemistry, 2016, 218, 1-6.	1.5	8
134	Near-Surface and Bulk Behavior of Bicontinuous Microemulsions under High-Pressure Conditions. Journal of Physical Chemistry B, 2016, 120, 7148-7153.	1.2	4
135	Conformational Substates of Amyloidogenic hIAPP Revealed by High Pressure NMR Spectroscopy. ChemistrySelect, 2016, 1, 3239-3243.	0.7	6
136	Toward Extreme Biophysics: Deciphering the Infrared Response of Biomolecular Solutions at High Pressures. Angewandte Chemie - International Edition, 2016, 55, 9534-9538.	7.2	47
137	Regulation of K-Ras4B Membrane Binding by Calmodulin. Biophysical Journal, 2016, 111, 113-122.	0.2	44
138	Probing conformational and functional substates of calmodulin by high pressure FTIR spectroscopy: influence of Ca²⁺ binding and the hypervariable region of K-Ras4B. Physical Chemistry Chemical Physics, 2016, 18, 30020-30028.	1.3	17
139	Cosolvent and Crowding Effects on the Temperature and Pressure Dependent Conformational Dynamics and Stability of Globular Actin. Journal of Physical Chemistry B, 2016, 120, 6575-6586.	1.2	25
140	Lipoprotein insertion into membranes of various complexity: lipid sorting, interfacial adsorption and protein clustering. Physical Chemistry Chemical Physics, 2016, 18, 8954-8962.	1.3	12
141	Pressure Perturbation: A Prime Tool to Study Conformational Substates and Volume Fluctuations of Biomolecular Assemblies. , 2016, , 29-64.		0
142	Condensation Agents Determine the Temperatureâ€“Pressure Stability of Fâ€Actin Bundles. Angewandte Chemie - International Edition, 2015, 54, 11088-11092.	7.2	8
143	Kinetic Insights into the Elongation Reaction of Actin Filaments as a Function of Temperature, Pressure, and Macromolecular Crowding. ChemPhysChem, 2015, 16, 3681-3686.	1.0	15
144	Pressureâ€”A Gateway to Fundamental Insights into Protein Solvation, Dynamics, and Function. ChemPhysChem, 2015, 16, 3555-3571.	1.0	87

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145	Pressure-A Gateway to Fundamental Insights into Protein Solvation, Dynamics, and Function. ChemPhysChem, 2015, 16, 3539-3539.	1.0	2
146	Combined Effects of Temperature, Pressure, and Coâ€Solvents on the Polymerization Kinetics of Actin. ChemPhysChem, 2015, 16, 1379-1385.	1.0	30
147	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
148	Modulation of human IAPP fibrillation: cosolutes, crowders and chaperones. Physical Chemistry Chemical Physics, 2015, 17, 8338-8348.	1.3	59
149	Cosolvent and crowding effects on the polymerization kinetics of actin. Physical Chemistry Chemical Physics, 2015, 17, 8330-8337.	1.3	27
150	Exploring the Free Energy and Conformational Landscape of tRNA at High Temperature and Pressure. ChemPhysChem, 2015, 16, 138-146.	1.0	14
151	Disentangling Volumetric and Hydrational Properties of Proteins. Journal of Physical Chemistry B, 2015, 119, 1881-1890.	1.2	13
152	Methanolâ€induced change of the mechanism of the temperatureâ€and pressureâ€induced collapse of Nâ€Substituted acrylamide copolymers. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 532-544.	2.4	9
153	Exploring volume, compressibility and hydration changes of folded proteins upon compression. Physical Chemistry Chemical Physics, 2015, 17, 8499-8508.	1.3	23
154	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
155	Probing volumetric properties of biomolecular systems by pressure perturbation calorimetry (PPC) â€“ The effects of hydration, cosolvents and crowding. Methods, 2015, 76, 67-77.	1.9	16
156	Effect of the N-Terminal Helix and Nucleotide Loading on the Membrane and Effector Binding of Arl2/3. Biophysical Journal, 2015, 109, 1619-1629.	0.2	13
157	Exploring the structure and phase behavior of plasma membrane vesicles under extreme environmental conditions. Physical Chemistry Chemical Physics, 2015, 17, 7507-7513.	1.3	12
158	Pressure Effects on the Intermolecular Interaction Potential of Condensed Protein Solutions. Sub-Cellular Biochemistry, 2015, 72, 151-176.	1.0	5
159	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
160	Pressure Modulation of the Enzymatic Activity of Phospholipase A2, A Putative Membrane-Associated Pressure Sensor. Journal of the American Chemical Society, 2015, 137, 12588-12596.	6.6	27
161	Pressure and Temperature Effects on the Activity and Structure of the Catalytic Domain of Human MT1-MMP. Biophysical Journal, 2015, 109, 2371-2381.	0.2	24
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