

# Roland Winter

## List of Publications by Citations

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470  
papers

14,529  
citations

64  
h-index

92  
g-index

516  
ext. papers

15,756  
ext. citations

4.6  
avg, IF

6.72  
L-index

#	Paper	IF	Citations
470	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. <i>Journal of Molecular Biology</i> , <b>1998</b> , 275, 389-402	6.5	239
469	Amyloidogenic self-assembly of insulin aggregates probed by high resolution atomic force microscopy. <i>Biophysical Journal</i> , <b>2005</b> , 88, 1344-53	2.9	237
468	Origins of life and biochemistry under high-pressure conditions. <i>Chemical Society Reviews</i> , <b>2006</b> , 35, 858-885	3.5	197
467	Exploring the temperature-pressure phase diagram of staphylococcal nuclease. <i>Biochemistry</i> , <b>1999</b> , 38, 4157-64	3.2	186
466	Differences between the pressure- and temperature-induced denaturation and aggregation of beta-lactoglobulin A, B, and AB monitored by FT-IR spectroscopy and small-angle X-ray scattering. <i>Biochemistry</i> , <b>1999</b> , 38, 6512-9	3.2	178
465	Protein encapsulation in mesoporous silicate: the effects of confinement on protein stability, hydration, and volumetric properties. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 12224-5	16.4	175
464	Mechanism of islet amyloid polypeptide fibrillation at lipid interfaces studied by infrared reflection absorption spectroscopy. <i>Biophysical Journal</i> , <b>2007</b> , 93, 3132-41	2.9	165
463	Effect of pressure on membranes. <i>Soft Matter</i> , <b>2009</b> , 5, 3157	3.6	164
462	Aggregation of bovine insulin probed by DSC/PPC calorimetry and FTIR spectroscopy. <i>Biochemistry</i> , <b>2003</b> , 42, 11347-55	3.2	160
461	Synchrotron X-ray and neutron small-angle scattering of lyotropic lipid mesophases, model biomembranes and proteins in solution at high pressure. <i>BBA - Proteins and Proteomics</i> , <b>2002</b> , 1595, 160-84		138
460	The static structure factor of cesium over the whole liquid range up to the critical point. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , <b>1987</b> , 91, 1327-1330		128
459	Volume, expansivity and isothermal compressibility changes associated with temperature and pressure unfolding of Staphylococcal nuclease. <i>Journal of Molecular Biology</i> , <b>2001</b> , 307, 1091-102	6.5	125
458	A SANS Study of High Pressure Phase Transitions in Model Biomembranes. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , <b>1989</b> , 93, 708-717		121
457	Visualizing association of N-ras in lipid microdomains: influence of domain structure and interfacial adsorption. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 192-201	16.4	117
456	Insulin forms amyloid in a strain-dependent manner: an FT-IR spectroscopic study. <i>Protein Science</i> , <b>2004</b> , 13, 1927-32	6.3	117
455	Membrane-mediated induction and sorting of K-Ras microdomain signaling platforms. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 880-7	16.4	116
454	Temperature- and pressure-dependent phase behavior of monoacylglycerides monoolein and monoelaidin. <i>Biophysical Journal</i> , <b>1995</b> , 68, 1423-9	2.9	114

453	Inhibiting islet amyloid polypeptide fibril formation by the red wine compound resveratrol. <i>ChemBioChem</i> , <b>2009</b> , 10, 445-9	3.8	113
452	Pressure perturbation calorimetric studies of the solvation properties and the thermal unfolding of proteins in solution--experiments and theoretical interpretation. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 1249-65	3.6	110
451	On the temperature--pressure free-energy landscape of proteins. <i>ChemPhysChem</i> , <b>2003</b> , 4, 359-65	3.2	105
450	Ethanol-perturbed amyloidogenic self-assembly of insulin: looking for origins of amyloid strains. <i>Biochemistry</i> , <b>2005</b> , 44, 8948-58	3.2	103
449	Effects of pressure-induced membrane phase transitions on inactivation of HorA, an ATP-dependent multidrug resistance transporter, in <i>Lactobacillus plantarum</i> . <i>Applied and Environmental Microbiology</i> , <b>2002</b> , 68, 1088-95	4.8	101
448	Differential Properties of the Sterols Cholesterol, Ergosterol, Sitosterol, trans-7-Dehydrocholesterol, Stigmasterol and Lanosterol on DPPC Bilayer Order. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 10658-10664	3.4	101
447	Cold- and pressure-induced dissociation of protein aggregates and amyloid fibrils. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 6518-21	16.4	100
446	Quantum Cluster Equilibrium Theory of Liquids: Temperature Dependence of Hydrogen Bonding in Liquid N-Methylacetamide Studied by IR Spectra. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 9312-9318	3.4	99
445	Effect of hydrostatic pressure on water penetration and rotational dynamics in phospholipid-cholesterol bilayers. <i>Biophysical Journal</i> , <b>1997</b> , 72, 1264-77	2.9	98
444	Small-molecule inhibitors of islet amyloid polypeptide fibril formation. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 4679-82	16.4	97
443	Dynamics of structural transformations between lamellar and inverse bicontinuous cubic lyotropic phases. <i>Physical Review Letters</i> , <b>2006</b> , 96, 108102	7.4	97
442	Solvation-assisted pressure tuning of insulin fibrillation: from novel aggregation pathways to biotechnological applications. <i>Journal of Molecular Biology</i> , <b>2006</b> , 356, 497-509	6.5	97
441	Elucidating the mechanism of lipid membrane-induced IAPP fibrillogenesis and its inhibition by the red wine compound resveratrol: a synchrotron X-ray reflectivity study. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 9516-21	16.4	96
440	High-Pressure Biochemistry and Biophysics. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2013</b> , 75, 607-648	7.1	95
439	Influence of the lipidation motif on the partitioning and association of N-Ras in model membrane subdomains. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 1557-64	16.4	94
438	Revealing conformational substates of lipidated N-Ras protein by pressure modulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 460-5	11.5	93
437	Characterization of the pressure-induced intermediate and unfolded state of red-shifted green fluorescent protein--a static and kinetic FTIR, UV/VIS and fluorescence spectroscopy study. <i>Journal of Molecular Biology</i> , <b>2003</b> , 330, 1153-64	6.5	93
436	Pressure-jump small-angle x-ray scattering detected kinetics of staphylococcal nuclease folding. <i>Biophysical Journal</i> , <b>2001</b> , 80, 1518-23	2.9	92

435	Formation of spanning water networks on protein surfaces via 2D percolation transition. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 1988-98	3.4	91
434	Effect of osmolytes on pressure-induced unfolding of proteins: a high-pressure SAXS study. <i>ChemPhysChem</i> , <b>2008</b> , 9, 2809-15	3.2	90
433	Effects of in vivo conditions on amyloid aggregation. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 3946-3996	58.5	86
432	Hydration and packing effects on prion folding and beta-sheet conversion. High pressure spectroscopy and pressure perturbation calorimetry studies. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 32354-9	5.4	86
431	Exploring the temperature-pressure configurational landscape of biomolecules: from lipid membranes to proteins. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2005</b> , 363, 537-62; discussion 562-3	3	86
430	Effect of temperature on the conformation of lysozyme adsorbed to silica particles. <i>Physical Chemistry Chemical Physics</i> , <b>2001</b> , 3, 235-239	3.6	85
429	Interplay between hydrogen bonding and macromolecular architecture leading to unusual phase behavior in thermosensitive microgels. <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 338-41	16.4	84
428	Solvational tuning of the unfolding, aggregation and amyloidogenesis of insulin. <i>Journal of Molecular Biology</i> , <b>2005</b> , 351, 879-94	6.5	84
427	Pressure-induced unfolding/refolding of ribonuclease A: static and kinetic Fourier transform infrared spectroscopy study. <i>Biochemistry</i> , <b>2000</b> , 39, 1862-9	3.2	84
426	Inverse Bicontinuous Cubic Phases in 2:1 Fatty Acid/Phosphatidylcholine Mixtures. The Effects of Chain Length, Hydration, and Temperature. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 7251-7261	3.4	84
425	Pressure-jump studies of the folding/unfolding of trp repressor. <i>Journal of Molecular Biology</i> , <b>1999</b> , 288, 461-75	6.5	81
424	Pressure-A Gateway to Fundamental Insights into Protein Solvation, Dynamics, and Function. <i>ChemPhysChem</i> , <b>2015</b> , 16, 3555-71	3.2	77
423	Towards an Understanding of the Temperature/ Pressure Configurational and Free-Energy Landscape of Biomolecules. <i>Journal of Non-Equilibrium Thermodynamics</i> , <b>2007</b> , 32,	3.8	77
422	Temperature- and pressure-induced unfolding and refolding of ubiquitin: a static and kinetic Fourier transform infrared spectroscopy study. <i>Biochemistry</i> , <b>2002</b> , 41, 2396-401	3.2	77
421	Effect of temperature, pressure and lipid acyl chain length on the structure and phase behaviour of phospholipid-gramicidin bilayers. <i>Physical Chemistry Chemical Physics</i> , <b>2000</b> , 2, 4545-4551	3.6	77
420	The effect of high external pressure on DPPC-cholesterol multilamellar vesicles: a pressure-tuning Fourier transform infrared spectroscopy study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>1996</b> , 1279, 5-16	3.8	77
419	High pressure promotes circularly shaped insulin amyloid. <i>Journal of Molecular Biology</i> , <b>2004</b> , 338, 203-66.5		75
418	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. <i>Biophysical Journal</i> , <b>2004</b> , 86, 1385-92	2.9	75

4 <sup>17</sup>	Amyloidogenic propensities and conformational properties of ProlAPP and IAPP in the presence of lipid bilayer membranes. <i>Journal of Molecular Biology</i> , <b>2009</b> , 389, 907-20	6.5	73
4 <sup>16</sup>	Cytotoxicity of insulin within its self-assembly and amyloidogenic pathways. <i>Journal of Molecular Biology</i> , <b>2007</b> , 370, 372-84	6.5	72
4 <sup>15</sup>	Molecular Dynamics Simulations of Staphylococcal Nuclease: Properties of Water at the Protein Surface. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 15928-15937	3.4	72
4 <sup>14</sup>	Exploring the piezophilic behavior of natural cosolvent mixtures. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 11413-6	16.4	71
4 <sup>13</sup>	Interaction of hIAPP with model raft membranes and pancreatic beta-cells: cytotoxicity of hIAPP oligomers. <i>ChemBioChem</i> , <b>2010</b> , 11, 1280-90	3.8	68
4 <sup>12</sup>	Synthesis of the Rheb and K-Ras4B GTPases. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 6090-516.4	6.4	68
4 <sup>11</sup>	Kinetics and Mechanism of the Lamellar to Gyroid Inverse Bicontinuous Cubic Phase Transition. <i>Langmuir</i> , <b>2002</b> , 18, 7384-7392	4	68
4 <sup>10</sup>	Kinetics and mechanism of the interconversion of inverse bicontinuous cubic mesophases. <i>Physical Review E</i> , <b>2005</b> , 72, 011502	2.4	66
4 <sup>09</sup>	Modeling the Phase Behavior of the Inverse Hexagonal and Inverse Bicontinuous Cubic Phases in 2:1 Fatty Acid/Phosphatidylcholine Mixtures. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 7262-7271	3.4	66
4 <sup>08</sup>	Crowders and Cosolvents-Major Contributors to the Cellular Milieu and Efficient Means to Counteract Environmental Stresses. <i>ChemPhysChem</i> , <b>2017</b> , 18, 2951-2972	3.2	65
4 <sup>07</sup>	The diastereomeric assembly of polylysine is the low-volume pathway for preferential formation of beta-sheet aggregates. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 3762-8	16.4	65
4 <sup>06</sup>	Cross-amyloid interaction of A $\beta$ and IAPP at lipid membranes. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 679-83	16.4	64
4 <sup>05</sup>	Suppression of IAPP fibrillation at anionic lipid membranes via IAPP-derived amyloid inhibitors and insulin. <i>Biophysical Chemistry</i> , <b>2010</b> , 150, 73-9	3.5	63
4 <sup>04</sup>	Effects of chaotropic and kosmotropic cosolvents on the pressure-induced unfolding and denaturation of proteins: an FT-IR study on staphylococcal nuclease. <i>Biochemistry</i> , <b>2004</b> , 43, 3336-45	3.2	63
4 <sup>03</sup>	The lipid modifications of Ras that sense membrane environments and induce local enrichment. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 8784-7	16.4	62
4 <sup>02</sup>	High pressure-jump apparatus for kinetic studies of protein folding reactions using the small-angle synchrotron x-ray scattering technique. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 3895	1.7	61
4 <sup>01</sup>	Temperature and pressure effects on structural and conformational properties of POPC/SM/cholesterol model raft mixtures--a FT-IR, SAXS, DSC, PPC and Laurdan fluorescence spectroscopy study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2006</b> , 1758, 248-58	3.8	60
4 <sup>00</sup>	Folding and unfolding of an elastinlike oligopeptide: "inverse temperature transition," reentrance, and hydrogen-bond dynamics. <i>Physical Review Letters</i> , <b>2004</b> , 92, 148101	7.4	60

399	Copolymer Microgels from Mono- and Disubstituted Acrylamides: Phase Behavior and Hydrogen Bonds. <i>Macromolecules</i> , <b>2008</b> , 41, 6830-6836	5.5	59
398	RNA Hairpin Folding in the Crowded Cell. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 3224-8	16.4	59
397	Fluorescence microscopy studies on islet amyloid polypeptide fibrillation at heterogeneous and cellular membrane interfaces and its inhibition by resveratrol. <i>FEBS Letters</i> , <b>2009</b> , 583, 1439-45	3.8	58
396	Properties of spanning water networks at protein surfaces. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 10995-1005	3.4	58
395	Design principles for high-pressure force fields: Aqueous TMAO solutions from ambient to kilobar pressures. <i>Journal of Chemical Physics</i> , <b>2016</b> , 144, 144104	3.9	58
394	Temperature, Hydrostatic Pressure, and Osmolyte Effects on Liquid-Liquid Phase Separation in Protein Condensates: Physical Chemistry and Biological Implications. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 13049-13069	4.8	56
393	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. <i>Biophysical Journal</i> , <b>2008</b> , 94, 3538-48	2.9	56
392	The amino-terminal PrP domain is crucial to modulate prion misfolding and aggregation. <i>Biophysical Journal</i> , <b>2005</b> , 89, 2667-76	2.9	56
391	Interaction of the anticancer agent Taxol (paclitaxel) with phospholipid bilayers. <i>Journal of Biomedical Materials Research Part B</i> , <b>1999</b> , 46, 141-9		56
390	Effects of hydrostatic pressure on lipid and surfactant phases. <i>Current Opinion in Colloid and Interface Science</i> , <b>2001</b> , 6, 303-312	7.6	55
389	A molecular tweezer antagonizes seminal amyloids and HIV infection. <i>ELife</i> , <b>2015</b> , 4,	8.9	55
388	Combined pressure and cosolvent effects on enzyme activity - a high-pressure stopped-flow kinetic study on Echinotrypsin. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 23273-8	3.6	54
387	Kinetics of lamellar-to-cubic and inter-cubic phase transitions of pure and cytochrome c containing monoolein dispersions monitored by time-resolved small-angle X-ray diffraction. <i>Langmuir</i> , <b>2005</b> , 21, 3559-71	4	54
386	Partitioning of dual-lipidated peptides into membrane microdomains: lipid sorting vs peptide aggregation. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7496-503	16.4	53
385	The role of G-domain orientation and nucleotide state on the Ras isoform-specific membrane interaction. <i>European Biophysics Journal</i> , <b>2012</b> , 41, 801-13	1.9	52
384	NMR spectroscopic investigation of early events in IAPP amyloid fibril formation. <i>ChemBioChem</i> , <b>2009</b> , 10, 1769-72	3.8	52
383	Towards a quantitative understanding of protein hydration and volumetric properties. <i>ChemPhysChem</i> , <b>2008</b> , 9, 2715-21	3.2	52
382	Percolation transition of hydration water: from planar hydrophilic surfaces to proteins. <i>Physical Review Letters</i> , <b>2005</b> , 95, 247802	7.4	52

381	Pressure effects on the structure of lyotropic lipid mesophases and model biomembrane systems. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , <b>2000</b> , 215, 454-474	1	51
380	The effect of Aβn IAPP aggregation in the presence of an isolated Ecell membrane. <i>Journal of Molecular Biology</i> , <b>2012</b> , 421, 348-63	6.5	50
379	Nonlinear pressure dependence of the interaction potential of dense protein solutions. <i>Physical Review Letters</i> , <b>2011</b> , 106, 178102	7.4	50
378	Effect of pressure on islet amyloid polypeptide aggregation: revealing the polymorphic nature of the fibrillation process. <i>Biochemistry</i> , <b>2008</b> , 47, 6352-60	3.2	50
377	A pressure-jump time-resolved X-ray diffraction study of cubic-cubic transition kinetics in monoolein. <i>Langmuir</i> , <b>2008</b> , 24, 2331-40	4	50
376	The small-angle and wide-angle X-ray scattering set-up at beamline BL9 of DELTA. <i>Journal of Synchrotron Radiation</i> , <b>2007</b> , 14, 244-51	2.4	50
375	Pressure perturbation calorimetry: a new technique provides surprising results on the effects of co-solvents on protein solvation and unfolding behaviour. <i>ChemPhysChem</i> , <b>2004</b> , 5, 566-71	3.2	50
374	Protein-protein interactions in complex cosolvent solutions. <i>ChemPhysChem</i> , <b>2007</b> , 8, 679-89	3.2	49
373	Inverse bicontinuous cubic phases in fatty acid/phosphatidylcholine mixtures: the effects of pressure and lipid composition. <i>Physical Chemistry Chemical Physics</i> , <b>1999</b> , 1, 887-893	3.6	49
372	Modulation of human IAPP fibrillation: cosolutes, crowders and chaperones. <i>Physical Chemistry Chemical Physics</i> , <b>2015</b> , 17, 8338-48	3.6	48
371	Nonspecific prion protein-nucleic acid interactions lead to different aggregates and cytotoxic species. <i>Biochemistry</i> , <b>2012</b> , 51, 5402-13	3.2	48
370	Macromolecular crowding as a suppressor of human IAPP fibril formation and cytotoxicity. <i>PLoS ONE</i> , <b>2013</b> , 8, e69652	3.7	48
369	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. <i>Chemistry and Physics of Lipids</i> , <b>1998</b> , 91, 135-144	3.7	48
368	Pressure effects on the structure and phase behavior of DMPC-gramicidin lipid bilayers: a synchrotron SAXS and 2H-NMR spectroscopy study. <i>Biophysical Journal</i> , <b>2006</b> , 90, 956-66	2.9	48
367	Insertion of lipidated Ras proteins into lipid monolayers studied by infrared reflection absorption spectroscopy (IRRAS). <i>Biophysical Journal</i> , <b>2006</b> , 91, 1388-401	2.9	48
366	On the existence of bicontinuous cubic phases in dioleoylphosphatidylethanolamine. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , <b>1994</b> , 98, 1287-1293		48
365	Structure of Expanded Fluid Metals. <i>Physics and Chemistry of Liquids</i> , <b>1989</b> , 20, 1-15	1.5	48
364	The structural properties of liquid sulphur. <i>Journal of Physics Condensed Matter</i> , <b>1990</b> , 2, 8427-8437	1.8	48

363	Misplaced helix slows down ultrafast pressure-jump protein folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 8087-92	11.5	47
362	Calculation of the volumetric characteristics of biomacromolecules in solution by the Voronoi-Delaunay technique. <i>Biophysical Chemistry</i> , <b>2014</b> , 192, 1-9	3.5	45
361	The effect of ionic strength, temperature, and pressure on the interaction potential of dense protein solutions: from nonlinear pressure response to protein crystallization. <i>Biophysical Journal</i> , <b>2012</b> , 102, 2641-8	2.9	45
360	Volumetric properties of hydrated peptides: Voronoi-Delaunay analysis of molecular simulation runs. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 14217-28	3.4	45
359	Pressure perturbation calorimetric studies of the solvation properties and the thermal unfolding of staphylococcal nuclease. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 1952	3.6	44
358	Reentrant liquid-liquid phase separation in protein solutions at elevated hydrostatic pressures. <i>Physical Review Letters</i> , <b>2014</b> , 112, 028101	7.4	43
357	A molecular dynamics simulation of SNase and its hydration shell at high temperature and high pressure. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2006</b> , 1764, 522-34	4	43
356	Thermal breaking of spanning water networks in the hydration shell of proteins. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 224905	3.9	43
355	Structure and dynamics of expanded liquid alkali metals. <i>Journal of Non-Crystalline Solids</i> , <b>1993</b> , 156-158, 9-14	3.9	43
354	The electrical conductivity of expanded liquid caesium. <i>Journal of Physics Condensed Matter</i> , <b>1992</b> , 4, 1659-1669	1.8	43
353	The effect of fluoride on the sol-gel process. <i>Journal of Non-Crystalline Solids</i> , <b>1988</b> , 105, 214-222	3.9	43
352	pH-Driven Polymorphism of Insulin Amyloid-Like Fibrils. <i>PLoS ONE</i> , <b>2015</b> , 10, e0136602	3.7	43
351	Effects of specific versus nonspecific ionic interactions on the structure and lateral organization of lipopolysaccharides. <i>Biophysical Journal</i> , <b>2011</b> , 100, 2169-77	2.9	42
350	On the Norbornyl Cation Problem. <i>Journal of the American Chemical Society</i> , <b>1963</b> , 85, 169-173	16.4	42
349	Cosolvent effects on the fibrillation reaction of human IAPP. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 8902-7	3.6	41
348	Comparing the structural properties of human and rat islet amyloid polypeptide by MD computer simulations. <i>Biophysical Chemistry</i> , <b>2011</b> , 156, 43-50	3.5	41
347	Zinc-1,4-benzenedicarboxylate-bipyridine frameworks linker functionalization impacts network topology during solvothermal synthesis. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 909-918		40
346	Toward Copolymers with Ideal Thermosensitivity: Solution Properties of Linear, Well-Defined Polymers of N-Isopropyl Acrylamide and N,N-Diethyl Acrylamide. <i>Macromolecules</i> , <b>2012</b> , 45, 8021-8026	5.5	40



345	High-pressure SAXS study of folded and unfolded ensembles of proteins. <i>Biophysical Journal</i> , <b>2010</b> , 99, 3430-7	2.9	40
344	Hydration and structure of the two sides of the insulin aggregation process. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 1938-1943	3.6	40
343	Hydrostatic Pressure Increases the Catalytic Activity of Amyloid Fibril Enzymes. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 12412-6	16.4	39
342	Solvation properties and stability of ribonuclease A in normal and deuterated water studied by dielectric relaxation and differential scanning/pressure perturbation calorimetry. <i>Physical Chemistry Chemical Physics</i> , <b>2004</b> , 6, 1899-1905	3.6	39
341	TMAO and urea in the hydration shell of the protein SNase. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 6345-6357	3.6	38
340	Regulation of K-Ras4B Membrane Binding by Calmodulin. <i>Biophysical Journal</i> , <b>2016</b> , 111, 113-22	2.9	38
339	Temperature-pressure phase diagram of a heterogeneous anionic model biomembrane system: results from a combined calorimetry, spectroscopy and microscopy study. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2011</b> , 1808, 1187-95	3.8	38
338	Crowding effects on the temperature and pressure dependent structure, stability and folding kinetics of Staphylococcal Nuclease. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 5965-76	3.6	37
337	Pressure tuning of the morphology of heterogeneous lipid vesicles: a two-photon-excitation fluorescence microscopy study. <i>Biophysical Journal</i> , <b>2006</b> , 91, 2936-42	2.9	37
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