

Roland Winter

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 Responses of Nucleic Acids to Mars-Relevant Salts at Deep Subsurface Conditions. <i>Life</i> , 2022 , 12, 677	3	1
469	Binding Properties of RNA Quadruplex of SARS-CoV-2 to Berberine Compared to Telomeric DNA Quadruplex. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 5690	6.3	0
468	Modulation of the Conformational Space of SARS-CoV-2 RNA Quadruplex RG-1 by Cellular Components and the Amyloidogenic Peptides β Synuclein and hIAPP. <i>Chemistry - A European Journal</i> , 2021 ,	4.8	3
467	Hidden intermediates in Mango III RNA aptamer folding revealed by pressure perturbation.. <i>Biophysical Journal</i> , 2021 ,	2.9	2
466	Bipolar Imidazolium-Based Lipid Analogues for Artificial Archaeosomes. <i>Langmuir</i> , 2021 , 37, 11996-12006	4	0
465	Ions in the Deep Subsurface of Earth, Mars, and Icy Moons: Their Effects in Combination with Temperature and Pressure on tRNA-Ligand Binding. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
464	Biomolecular Condensates under Extreme Martian Salt Conditions. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5247-5259	16.4	6
463	Unraveling the binding characteristics of small ligands to telomeric DNA by pressure modulation. <i>Scientific Reports</i> , 2021 , 11, 9714	4.9	7
462	Characterisation of a synthetic Archeal membrane reveals a possible new adaptation route to extreme conditions. <i>Communications Biology</i> , 2021 , 4, 653	6.7	5
461	Towards DNA-Encoded Micellar Chemistry: DNA-Micelle Association and Environment Sensitivity of Catalysis. <i>Chemistry - A European Journal</i> , 2021 , 27, 10048-10057	4.8	3
460	Non-Polar Lipids as Regulators of Membrane Properties in Archaeal Lipid Bilayer Mimics. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
459	The Effects of Temperature and Pressure on Protein-Ligand Binding in the Presence of Mars-Relevant Salts. <i>Biology</i> , 2021 , 10,	4.9	3
458	Remodeling of the Fibrillation Pathway of β Synuclein by Interaction with Antimicrobial Peptide LL-III. <i>Chemistry - A European Journal</i> , 2021 , 27, 11845-11851	4.8	2
457	The N-terminal domain of the prion protein is required and sufficient for liquid-liquid phase separation: A crucial role of the A β binding domain. <i>Journal of Biological Chemistry</i> , 2021 , 297, 100860	5.4	5
456	Exploring the polymorphism, conformational dynamics and function of amyloidogenic peptides and proteins by temperature and pressure modulation. <i>Biophysical Chemistry</i> , 2021 , 268, 106506	3.5	7
455	Exploring Enzymatic Activity in Multiparameter Space: Cosolvents, Macromolecular Crowders and Pressure. <i>ChemSystemsChem</i> , 2021 , 3, e2000029	3.1	1
454	Untangling the interaction of β Synuclein with DNA i-motifs and hairpins by volume-sensitive single-molecule FRET spectroscopy. <i>RSC Chemical Biology</i> , 2021 , 2, 1196-1200	3	3

453	Liquid droplets of protein LAF1 provide a vehicle to regulate storage of the signaling protein K-Ras4B and its transport to the lipid membrane. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 5370-5375	3.6	2
452	Structural responses of model biomembranes to Mars-relevant salts. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 14212-14223	3.6	3
451	Harnessing Pressure Modulation for Exploring Ligand Binding Reactions in Cosolvent Solutions. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 539-546	3.4	5
450	Perchlorate salts confer psychrophilic characteristics in α -chymotrypsin. <i>Scientific Reports</i> , 2021 , 11, 16523	4.9	1
449	Boosting the kinetic efficiency of formate dehydrogenase by combining the effects of temperature, high pressure and co-solvent mixtures. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 208, 112127	6	4
448	Impact of the number of rhamnose moieties of rhamnolipids on the structure, lateral organization and morphology of model biomembranes. <i>Soft Matter</i> , 2021 , 17, 3191-3206	3.6	2
447	Alteration of Protein Binding Affinities by Aqueous Two-Phase Systems Revealed by Pressure Perturbation. <i>Scientific Reports</i> , 2020 , 10, 8074	4.9	11
446	On the extraordinary pressure stability of the <i>Thermotoga maritima</i> arginine binding protein and its folded fragments - a high-pressure FTIR spectroscopy study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11244-11248	3.6	1
445	Alteration of the Conformational Dynamics of a DNA Hairpin by β -Synuclein in the Presence of Aqueous Two-Phase Systems. <i>Chemistry - A European Journal</i> , 2020 , 26, 10987-10991	4.8	2
444	Characterization of the Spatial Organization of Raf Isoforms Interacting with K-Ras4B in the Lipid Membrane. <i>Langmuir</i> , 2020 , 36, 5944-5953	4	4
443	Influence of thermally induced structure changes in diluted β -lactoglobulin solutions on their surface activity and behavior in foam fractionation. <i>Journal of Biotechnology</i> , 2020 , 319, 61-68	3.7	4
442	The multifaceted effects of DMSO and high hydrostatic pressure on the kinetic constants of hydrolysis reactions catalyzed by α -chymotrypsin. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 16325-16333	3.6	4
441	Pressure Sensitivity of SynGAP/PSD-95 Condensates as a Model for Postsynaptic Densities and Its Biophysical and Neurological Ramifications. <i>Chemistry - A European Journal</i> , 2020 , 26, 11024-11031	4.8	10
440	Stability of the chaperonin system GroEL-GroES under extreme environmental conditions. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 3734-3743	3.6	1
439	Interaction of imidazolium-based lipids with phospholipid bilayer membranes of different complexity. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 9775-9788	3.6	14
438	Modulation of enzymatic activity by aqueous two-phase systems and pressure - rivalry between kinetic constants. <i>Chemical Communications</i> , 2020 , 56, 395-398	5.8	7
437	Remodeling of the Conformational Dynamics of Noncanonical DNA Structures by Monomeric and Aggregated β -Synuclein. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18299-18303	16.4	5
436	Interaction of rhamnolipids with model biomembranes of varying complexity. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183431	3.8	9

435	An Imidazolium-Based Lipid Analogue as a Gene Transfer Agent. <i>Chemistry - A European Journal</i> , 2020 , 26, 17176-17182	4.8	7
434	The effects of cosolutes and crowding on the kinetics of protein condensate formation based on liquid-liquid phase separation: a pressure-jump relaxation study. <i>Scientific Reports</i> , 2020 , 10, 17245	4.9	11
433	High pressures increase β -chymotrypsin enzyme activity under perchlorate stress. <i>Communications Biology</i> , 2020 , 3, 550	6.7	9
432	Supramolecular Mechanism of Viral Envelope Disruption by Molecular Tweezers. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17024-17038	16.4	14
431	Perturbation of liquid droplets of P-granule protein LAF-1 by the antimicrobial peptide LL-III. <i>Chemical Communications</i> , 2020 , 56, 11577-11580	5.8	4
430	Pressure-dependent electronic structure calculations using integral equation-based solvation models. <i>Biophysical Chemistry</i> , 2020 , 257, 106258	3.5	6
429	A hydroxylamine probe for profiling S-acylated fatty acids on proteins. <i>Chemical Communications</i> , 2019 , 55, 11183-11186	5.8	3
428	Dynamics of TMAO and urea in the hydration shell of the protein SNase. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 19469-19479	3.6	7
427	The pressure and temperature perturbation approach reveals a whole variety of conformational substates of amyloidogenic hIAPP monitored by 2D NMR spectroscopy. <i>Biophysical Chemistry</i> , 2019 , 254, 106239	3.5	7
426	Membrane disintegration by the antimicrobial peptide (P)GKY20: lipid segregation and domain formation. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 3989-3998	3.6	14
425	Single-molecule insights into the temperature and pressure dependent conformational dynamics of nucleic acids in the presence of crowders and osmolytes. <i>Biophysical Chemistry</i> , 2019 , 251, 106190	3.5	6
424	The cholesterol transfer protein GRAMD1A regulates autophagosome biogenesis. <i>Nature Chemical Biology</i> , 2019 , 15, 710-720	11.7	36
423	Cosolvent and pressure effects on enzyme-catalysed hydrolysis reactions. <i>Biophysical Chemistry</i> , 2019 , 252, 106209	3.5	7
422	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> , 2019 , 25, 13049-13069	4.8	56
421	Osmolytes modify protein dynamics and function of tetrameric lactate dehydrogenase upon pressurization. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 12806-12817	3.6	5
420	Analyzing protein-ligand and protein-interface interactions using high pressure. <i>Biophysical Chemistry</i> , 2019 , 252, 106194	3.5	5
419	Dissociation of the Signaling Protein K-Ras4B from Lipid Membranes Induced by a Molecular Tweezer. <i>Chemistry - A European Journal</i> , 2019 , 25, 9827-9833	4.8	3
418	Effects of in vivo conditions on amyloid aggregation. <i>Chemical Society Reviews</i> , 2019 , 48, 3946-3996	58.5	86

417	Cosolvent and Crowding Effects on the Temperature- and Pressure-Dependent Dissociation Process of the β -Tubulin Heterodimer. <i>ChemPhysChem</i> , 2019 , 20, 1068-1068	3.2	
416	Effect of ectoine, hydroxyectoine and β -hydroxybutyrate on the temperature and pressure stability of phospholipid bilayer membranes of different complexity. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 178, 404-411	6	9
415	Cosolvent and Crowding Effects on the Temperature- and Pressure-Dependent Dissociation Process of the β -Tubulin Heterodimer. <i>ChemPhysChem</i> , 2019 , 20, 1098-1109	3.2	3
414	Pressure-Sensitive and Osmolyte-Modulated Liquid-Liquid Phase Separation of Eye-Lens β -Crystallins. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7347-7354	16.4	33
413	Interrogating the Structural Dynamics and Energetics of Biomolecular Systems with Pressure Modulation. <i>Annual Review of Biophysics</i> , 2019 , 48, 441-463	21.1	35
412	Impact of Macromolecular Crowding and Compression on Protein-Protein Interactions and Liquid-Liquid Phase Separation Phenomena. <i>Macromolecules</i> , 2019 , 52, 1772-1784	5.5	18
411	Impact of Y-ions on the structure and phase behavior of phospholipid model membranes. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5730-5743	3.6	10
410	Liquid-liquid phase separation rescues the conformational stability of a DNA hairpin from pressure-stress. <i>Chemical Communications</i> , 2019 , 55, 10673-10676	5.8	4
409	Effects of the deep-sea osmolyte TMAO on the temperature and pressure dependent structure and phase behavior of lipid membranes. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 18533-18540	3.6	11
408	Encapsulating properties of sulfobutylether- β -cyclodextrin toward a thrombin-derived antimicrobial peptide. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 138, 3249-3256	4.1	5
407	Combined co-solvent and pressure effect on kinetics of a peptide hydrolysis: an activity-based approach. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22224-22229	3.6	13
406	The small molecule inhibitor anle145c thermodynamically traps human islet amyloid peptide in the form of non-cytotoxic oligomers. <i>Scientific Reports</i> , 2019 , 9, 19023	4.9	8
405	Probing Colocalization of N-Ras and K-Ras4B Lipoproteins in Model Biomembranes. <i>ChemBioChem</i> , 2019 , 20, 1190-1195	3.8	4
404	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. <i>Nucleic Acids Research</i> , 2019 , 47, 981-996	20.1	26
403	Effect of hyaluronic acid on phospholipid model membranes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 173, 327-334	6	19
402	The effects of osmolytes and crowding on the pressure-induced dissociation and inactivation of dimeric LADH. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 7093-7104	3.6	10
401	Pressure and cosolvent modulation of the catalytic activity of amyloid fibrils. <i>Chemical Communications</i> , 2018 , 54, 5696-5699	5.8	12
400	Co-solvent effects on reaction rate and reaction equilibrium of an enzymatic peptide hydrolysis. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11317-11326	3.6	31

399	Interaction of KRas4B protein with C6-ceramide containing lipid model membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018 , 1860, 1008-1014	3.8	2
398	Entropically driven Polymeric Enzyme Inhibitors by End-Group directed Conjugation. <i>Chemistry - A European Journal</i> , 2018 , 24, 4523-4527	4.8	15
397	The Effect of Natural Osmolyte Mixtures on the Temperature-Pressure Stability of the Protein RNase A. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 615-634	3.1	8
396	A high pressure study of calmodulin-ligand interactions using small-angle X-ray and elastic incoherent neutron scattering. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 3514-3522	3.6	5
395	UNC119A Decreases the Membrane Binding of Myristoylated c-Src. <i>ChemBioChem</i> , 2018 , 19, 1482-1487	3.8	1
394	On the Origin of Microtubules' High-Pressure Sensitivity. <i>Biophysical Journal</i> , 2018 , 114, 1080-1090	2.9	7
393	Properties of Hydrogen-Bonded Liquids at Interfaces. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 937-972	3.1	13
392	High-Pressure NMR and SAXS Reveals How Capping Modulates Folding Cooperativity of the pp32 Leucine-rich Repeat Protein. <i>Journal of Molecular Biology</i> , 2018 , 430, 1336-1349	6.5	6
391	Antagonistic effects of natural osmolyte mixtures and hydrostatic pressure on the conformational dynamics of a DNA hairpin probed at the single-molecule level. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 13159-13170	3.6	21
390	Effects of Cosolvents and Macromolecular Crowding on the Phase Transitions and Temperature-Pressure Stability of Chiral and Racemic Poly-Lysine. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1111-1125	3.1	3
389	Elastin-like Peptide in Confinement: FT-IR and NMR T1 Relaxation Data. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1239-1261	3.1	5
388	Water-Mediated Protein-Protein Interactions at High Pressures are Controlled by a Deep-Sea Osmolyte. <i>Physical Review Letters</i> , 2018 , 121, 038101	7.4	23
387	The Deep Sea Osmolyte Trimethylamine N-Oxide and Macromolecular Crowders Rescue the Antiparallel Conformation of the Human Telomeric G-Quadruplex from Urea and Pressure Stress. <i>Chemistry - A European Journal</i> , 2018 , 24, 14346-14351	4.8	20
386	Pressure-Induced Dissolution and Reentrant Formation of Condensed, Liquid-Liquid Phase-Separated Elastomeric β -Elastin. <i>Chemistry - A European Journal</i> , 2018 , 24, 8286-8291	4.8	25
385	The consequences of cavity creation on the folding landscape of a repeat protein depend upon context. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E8153-E8161	11.5	14
384	The effects of glycine, TMAO and osmolyte mixtures on the pressure dependent enzymatic activity of β -thymotrypsin. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 1347-1354	3.6	22
383	Combined effects of osmotic and hydrostatic pressure on multilamellar lipid membranes in the presence of PEG and trehalose. <i>Soft Matter</i> , 2018 , 14, 8792-8802	3.6	10
382	Exploring the influence of natural cosolvents on the free energy and conformational landscape of filamentous actin and microtubules. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 28400-28411	3.6	8

381	Impact of kilobar pressures on ultrafast triazene and thiocyanine photodynamics. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 18169-18175	3.6	3
380	Modulation of the Thermodynamic Signatures of an RNA Thermometer by Osmolytes and Salts. <i>Angewandte Chemie</i> , 2017 , 129, 2342-2346	3.6	7
379	Modulation of the Thermodynamic Signatures of an RNA Thermometer by Osmolytes and Salts. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 2302-2306	16.4	22
378	Modulation of the Polymerization Kinetics of β -Tubulin by Osmolytes and Macromolecular Crowding. <i>ChemPhysChem</i> , 2017 , 18, 174-174	3.2	2
377	TMAO and urea in the hydration shell of the protein SNase. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6345-6357	3.6	38
376	Titelbild: Modulation of the Thermodynamic Signatures of an RNA Thermometer by Osmolytes and Salts (Angew. Chem. 9/2017). <i>Angewandte Chemie</i> , 2017 , 129, 2255-2255	3.6	
375	Influence of cosolvents, self-crowding, temperature and pressure on the sub-nanosecond dynamics and folding stability of lysozyme. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14230-14237	3.6	28
374	Pressure modulates the self-cleavage step of the hairpin ribozyme. <i>Nature Communications</i> , 2017 , 8, 14661	17.4	17
373	Phosphorylation Weakens but Does Not Inhibit Membrane Binding and Clustering of K-Ras4B. <i>ACS Chemical Biology</i> , 2017 , 12, 1703-1710	4.9	28
372	Osmolyte Effects on the Conformational Dynamics of a DNA Hairpin at Ambient and Extreme Environmental Conditions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5045-5049	16.4	28
371	Das Innere der Zelle: Ein komplexes Lösungsmittel. <i>Chemie in Unserer Zeit</i> , 2017 , 51, 26-33	0.2	1
370	Influence of isoform-specific Ras lipidation motifs on protein partitioning and dynamics in model membrane systems of various complexity. <i>Biological Chemistry</i> , 2017 , 398, 547-563	4.5	19
369	Stimulated Transitions of Directed Nonequilibrium Self-Assemblies. <i>Advanced Materials</i> , 2017 , 29, 1703495	4.5	20
368	Enzymatic activity under pressure. <i>MRS Bulletin</i> , 2017 , 42, 738-742	3.2	18
367	Temperature and pressure limits of guanosine monophosphate self-assemblies. <i>Scientific Reports</i> , 2017 , 7, 9864	4.9	9
366	Lipid Phase Control and Secondary Structure of Viral Fusion Peptides Anchored in Monoolein Membranes. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 8492-8502	3.4	2
365	Osmolyte Effects on the Conformational Dynamics of a DNA Hairpin at Ambient and Extreme Environmental Conditions. <i>Angewandte Chemie</i> , 2017 , 129, 5127-5131	3.6	5
364	Lateral Organization of Host Heterogeneous Raft-like Membranes Altered by the Myristoyl Modification of Tyrosine Kinase c-Src. <i>Angewandte Chemie</i> , 2017 , 129, 10647-10651	3.6	4

- 363 Crowders and Cosolvents-Major Contributors to the Cellular Milieu and Efficient Means to Counteract Environmental Stresses. *ChemPhysChem*, **2017**, 18, 2951-2972 3.2 65
- 362 Elucidation of the Catalytic Mechanism of a Miniature Zinc Finger Hydrolase. *Journal of Physical Chemistry B*, **2017**, 121, 6390-6398 3.4 14
- 361 Lateral Organization of Host Heterogeneous Raft-like Membranes Altered by the Myristoyl Modification of Tyrosine Kinase c-Src. *Angewandte Chemie - International Edition*, **2017**, 56, 10511-10515 16.4 8
- 360 Modulation of the Polymerization Kinetics of β -Tubulin by Osmolytes and Macromolecular Crowding. *ChemPhysChem*, **2017**, 18, 189-197 3.2 20
- 359 Exploring the effects of temperature and pressure on the structure and stability of a small RNA hairpin. *Biophysical Chemistry*, **2017**, 231, 161-166 3.5 5
- 358 Exploring the conformational space and dynamics of biomolecular systems using pressure perturbation. *Journal of Physics: Conference Series*, **2017**, 950, 022002 0.3
- 357 Hydrostatic Pressure Increases the Catalytic Activity of Amyloid Fibril Enzymes. *Angewandte Chemie - International Edition*, **2016**, 55, 12412-6 16.4 39
- 356 Improved activity of β -chymotrypsin on silica particles - A high-pressure stopped-flow study. *Biophysical Chemistry*, **2016**, 218, 1-6 3.5 7
- 355 Near-Surface and Bulk Behavior of Bicontinuous Microemulsions under High-Pressure Conditions. *Journal of Physical Chemistry B*, **2016**, 120, 7148-53 3.4 4
- 354 Conformational Substates of Amyloidogenic hIAPP Revealed by High Pressure NMR Spectroscopy. *ChemistrySelect*, **2016**, 1, 3239-3243 1.8 6
- 353 Toward Extreme Biophysics: Deciphering the Infrared Response of Biomolecular Solutions at High Pressures. *Angewandte Chemie - International Edition*, **2016**, 55, 9534-8 16.4 36
- 352 Regulation of K-Ras4B Membrane Binding by Calmodulin. *Biophysical Journal*, **2016**, 111, 113-22 2.9 38
- 351 Probing conformational and functional substates of calmodulin by high pressure FTIR spectroscopy: influence of Ca binding and the hypervariable region of K-Ras4B. *Physical Chemistry Chemical Physics*, **2016**, 18, 30020-30028 3.6 17
- 350 Cosolvent and Crowding Effects on the Temperature and Pressure Dependent Conformational Dynamics and Stability of Globular Actin. *Journal of Physical Chemistry B*, **2016**, 120, 6575-86 3.4 22
- 349 Lipoprotein insertion into membranes of various complexity: lipid sorting, interfacial adsorption and protein clustering. *Physical Chemistry Chemical Physics*, **2016**, 18, 8954-62 3.6 10
- 348 Pressure Perturbation: A Prime Tool to Study Conformational Substates and Volume Fluctuations of Biomolecular Assemblies **2016**, 29-64
- 347 Translational Dynamics of Lipidated Ras Proteins in the Presence of Crowding Agents and Compatible Osmolytes. *ChemPhysChem*, **2016**, 17, 2164-9 3.2 10
- 346 Biophysikalische Chemie vom Einzelmolekül zum Verständnis komplexer biologischer Maschinen. *Chemie in Unserer Zeit*, **2016**, 50, 82-82 0.2

345	Structural basis for the dissociation of β -nuclein fibrils triggered by pressure perturbation of the hydrophobic core. <i>Scientific Reports</i> , 2016 , 6, 37990	4.9	27
344	Hydrostatic Pressure Increases the Catalytic Activity of Amyloid Fibril Enzymes. <i>Angewandte Chemie</i> , 2016 , 128, 12600-12604	3.6	7
343	Design principles for high-pressure force fields: Aqueous TMAO solutions from ambient to kilobar pressures. <i>Journal of Chemical Physics</i> , 2016 , 144, 144104	3.9	58
342	RNA Hairpin Folding in the Crowded Cell. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3224-8	16.4	59
341	Faltung einer RNA-Haarnadel in der dicht gedrängten Zelle. <i>Angewandte Chemie</i> , 2016 , 128, 3279-3283	3.6	9
340	Phase behavior of lysozyme solutions in the liquid-liquid phase coexistence region at high hydrostatic pressures. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 14252-6	3.6	8
339	Binding of Vinculin to Lipid Membranes in Its Inhibited and Activated States. <i>Biophysical Journal</i> , 2016 , 111, 1444-1453	2.9	3
338	Toward Extreme Biophysics: Deciphering the Infrared Response of Biomolecular Solutions at High Pressures. <i>Angewandte Chemie</i> , 2016 , 128, 9686-9690	3.6	3
337	Disentangling volumetric and hydrational properties of proteins. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1881-90	3.4	13
336	Methanol-induced change of the mechanism of the temperature- and pressure-induced collapse of N-Substituted acrylamide copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015 , 53, 532-544	2.6	7
335	Exploring volume, compressibility and hydration changes of folded proteins upon compression. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8499-508	3.6	23
334	Influence of pressure and crowding on the sub-nanosecond dynamics of globular proteins. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 4842-8	3.4	30
333	Probing volumetric properties of biomolecular systems by pressure perturbation calorimetry (PPC)—the effects of hydration, cosolvents and crowding. <i>Methods</i> , 2015 , 76, 67-77	4.6	14
332	Effect of the N-Terminal Helix and Nucleotide Loading on the Membrane and Effector Binding of Arl2/3. <i>Biophysical Journal</i> , 2015 , 109, 1619-29	2.9	10
331	Exploring the structure and phase behavior of plasma membrane vesicles under extreme environmental conditions. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 7507-13	3.6	9
330	Pressure Effects on the Intermolecular Interaction Potential of Condensed Protein Solutions. <i>Sub-Cellular Biochemistry</i> , 2015 , 72, 151-76	5.5	3
329	Combined pressure and cosolvent effects on enzyme activity - a high-pressure stopped-flow kinetic study on β -thymotrypsin. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23273-8	3.6	54
328	Pressure Modulation of the Enzymatic Activity of Phospholipase A2, A Putative Membrane-Associated Pressure Sensor. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12588-96	16.4	19

327	Pressure and Temperature Effects on the Activity and Structure of the Catalytic Domain of Human MT1-MMP. <i>Biophysical Journal</i> , 2015 , 109, 2371-81	2.9	20
326	Condensation agents determine the temperature-pressure stability of F-actin bundles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11088-92	16.4	6
325	Condensation Agents Determine the Temperature-Pressure Stability of F-Actin Bundles. <i>Angewandte Chemie</i> , 2015 , 127, 11240-11244	3.6	
324	Kinetic Insights into the Elongation Reaction of Actin Filaments as a Function of Temperature, Pressure, and Macromolecular Crowding. <i>ChemPhysChem</i> , 2015 , 16, 3681-6	3.2	12
323	Pressure-A Gateway to Fundamental Insights into Protein Solvation, Dynamics, and Function. <i>ChemPhysChem</i> , 2015 , 16, 3555-71	3.2	77
322	Pressure-A Gateway to Fundamental Insights into Protein Solvation, Dynamics, and Function. <i>ChemPhysChem</i> , 2015 , 16, 3539-3539	3.2	2
321	Combined effects of temperature, pressure, and co-solvents on the polymerization kinetics of actin. <i>ChemPhysChem</i> , 2015 , 16, 1379-85	3.2	24
320	The Effects of Lipid Membranes, Crowding and Osmolytes on the Aggregation, and Fibrillation Propensity of Human IAPP. <i>Journal of Diabetes Research</i> , 2015 , 2015, 849017	3.9	32
319	Modulation of human IAPP fibrillation: cosolutes, crowders and chaperones. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8338-48	3.6	48
318	Cosolvent and crowding effects on the polymerization kinetics of actin. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 8330-7	3.6	23
317	Exploring the free energy and conformational landscape of tRNA at high temperature and pressure. <i>ChemPhysChem</i> , 2015 , 16, 138-46	3.2	13
316	pH-Driven Polymorphism of Insulin Amyloid-Like Fibrils. <i>PLoS ONE</i> , 2015 , 10, e0136602	3.7	43
315	A molecular tweezer antagonizes seminal amyloids and HIV infection. <i>ELife</i> , 2015 , 4,	8.9	55
314	Pressure Effects on Artificial and Cellular Membranes. <i>Sub-Cellular Biochemistry</i> , 2015 , 72, 345-70	5.5	6
313	Influence of high-pressure on cononsolvency of poly(N-isopropylacrylamide) nanogels in water/methanol mixtures. <i>Polymer</i> , 2014 , 55, 2000-2007	3.9	20
312	Crowding effects on the temperature and pressure dependent structure, stability and folding kinetics of Staphylococcal Nuclease. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 5965-76	3.6	37
311	Thermodynamic, dynamic and solvational properties of PDE1-binding to farnesylated cystein: a model study for uncovering the molecular mechanism of PDE1-interaction with prenylated proteins. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 966-75	3.4	10
310	Reentrant liquid-liquid phase separation in protein solutions at elevated hydrostatic pressures. <i>Physical Review Letters</i> , 2014 , 112, 028101	7.4	43

309	Intermolecular interactions in highly concentrated protein solutions upon compression and the role of the solvent. <i>Journal of Chemical Physics</i> , 2014 , 141, 22D506	3.9	10
308	The effects of pressure and temperature on the energetics and pivotal surface in a monoacylglycerol/water gyroid inverse bicontinuous cubic phase. <i>Soft Matter</i> , 2014 , 10, 3009-15	3.6	8
307	Prebiotic cell membranes that survive extreme environmental pressure conditions. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8397-401	16.4	10
306	Solvent effects on the dynamics of amyloidogenic insulin revealed by neutron spin echo spectroscopy. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 3310-6	3.4	13
305	Stability, Hydration, and Thermodynamic Properties of RNase A Confined in Surface-Functionalized SBA-15 Mesoporous Molecular Sieves. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21523-21531	3.8	9
304	Specific anion effects on the pressure dependence of the protein-protein interaction potential. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 7423-9	3.6	13
303	Calculation of the volumetric characteristics of biomacromolecules in solution by the Voronoi-Delaunay technique. <i>Biophysical Chemistry</i> , 2014 , 192, 1-9	3.5	45
302	In situ investigation of <i>Geobacillus stearothermophilus</i> spore germination and inactivation mechanisms under moderate high pressure. <i>Food Microbiology</i> , 2014 , 41, 8-18	6	26
301	Interaction of the human N-Ras protein with lipid raft model membranes of varying degrees of complexity. <i>Biological Chemistry</i> , 2014 , 395, 779-89	4.5	12
300	Exploring the stability limits of actin and its suprastructures. <i>Biophysical Journal</i> , 2014 , 107, 2982-2992	2.9	20
299	Prebiotic Cell Membranes that Survive Extreme Environmental Pressure Conditions. <i>Angewandte Chemie</i> , 2014 , 126, 8537-8541	3.6	3
298	Polymorphism, Metastable Species and Interconversion 2014 , 373-386		1
297	Special Issue Commemorating the Paper "The Diffraction of X-rays by Crystals" by William Lawrence Bragg (ZPC, 104, 337-48 (1923); Nobel Lecture, September 6, 1922). <i>Zeitschrift Fur Physikalische Chemie</i> , 2014 , 228, 953-956	3.1	
296	Packing Effects of N-Ras Binding to a DOPC Membrane by Neutron Reflectivity and TIRF Spectroscopy High-Pressure Study. <i>Zeitschrift Fur Physikalische Chemie</i> , 2014 , 228, 969-986	3.1	1
295	Lipid bilayers significantly modulate cross-fibrillation of two distinct amyloidogenic peptides. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13582-9	16.4	19
294	Conformational changes upon high pressure induced hydration of poly(N-isopropylacrylamide) microgels. <i>Soft Matter</i> , 2013 , 9, 5862	3.6	31
293	Pressure modulation of Ras-membrane interactions and intervesicle transfer. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6149-56	16.4	16
292	Cosolvent effects on the fibrillation reaction of human IAPP. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8902-7	3.6	41

291	Effect of molecular crowding on the temperature-pressure stability diagram of ribonuclease A. <i>ChemPhysChem</i> , 2013 , 14, 386-93	3.2	25
290	19. High-Pressure Biochemistry and Biophysics 2013 , 607-648		4
289	Gibbs energy determinants of lipoprotein insertion into lipid membranes: the case study of Ras proteins. <i>Faraday Discussions</i> , 2013 , 161, 549-61; discussion 563-89	3.6	17
288	In situ determination of Clostridium endospore membrane fluidity during pressure-assisted thermal processing in combination with nisin or reutericyclin. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 2103-6	4.8	16
287	High-Pressure Biochemistry and Biophysics. <i>Reviews in Mineralogy and Geochemistry</i> , 2013 , 75, 607-648	7.1	95
286	Misplaced helix slows down ultrafast pressure-jump protein folding. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 8087-92	11.5	47
285	Rotational and translational dynamics of ras proteins upon binding to model membrane systems. <i>ChemPhysChem</i> , 2013 , 14, 3698-705	3.2	21
284	Macromolecular crowding as a suppressor of human IAPP fibril formation and cytotoxicity. <i>PLoS ONE</i> , 2013 , 8, e69652	3.7	48
283	Cross-amyloid interaction of A β and IAPP at lipid membranes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 679-83	16.4	64
282	Investigation of structural changes of β -casein and lysozyme at the gas-liquid interface during foam fractionation. <i>Journal of Biotechnology</i> , 2012 , 161, 138-46	3.7	21
281	Zinc-1,4-benzenedicarboxylate-bipyridine frameworks linker functionalization impacts network topology during solvothermal synthesis. <i>Journal of Materials Chemistry</i> , 2012 , 22, 909-918		40
280	Dissociation of the K-Ras4B/PDE δ complex upon contact with lipid membranes: membrane delivery instead of extraction. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11503-10	16.4	30
279	Exploring the thermodynamic derivatives of the structure factor of dense protein solutions. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 9486-91	3.6	12
278	The effect of A β on IAPP aggregation in the presence of an isolated β -cell membrane. <i>Journal of Molecular Biology</i> , 2012 , 421, 348-63	6.5	50
277	Compatible solutes contribute to heat resistance and ribosome stability in Escherichia coli AW1.7. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012 , 1824, 1351-7	4	25
276	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> , 2012 , 102, 2641-8	2.9	45
275	Use of the fluorescent probe LAURDAN to label and measure inner membrane fluidity of endospores of Clostridium spp. <i>Journal of Microbiological Methods</i> , 2012 , 91, 93-100	2.8	18
274	Physical properties of archaeal tetraether lipid membranes as revealed by differential scanning and pressure perturbation calorimetry, molecular acoustics, and neutron reflectometry: effects of pressure and cell growth temperature. <i>Langmuir</i> , 2012 , 28, 5211-7	4	21

273	Islet amyloid polypeptide: aggregation and fibrillogenesis in vitro and its inhibition. <i>Sub-Cellular Biochemistry</i> , 2012 , 65, 185-209	5.5	4
272	Toward Copolymers with Ideal Thermosensitivity: Solution Properties of Linear, Well-Defined Polymers of N-Isopropyl Acrylamide and N,N-Diethyl Acrylamide. <i>Macromolecules</i> , 2012 , 45, 8021-8026	5.5	40
271	The role of G-domain orientation and nucleotide state on the Ras isoform-specific membrane interaction. <i>European Biophysics Journal</i> , 2012 , 41, 801-13	1.9	52
270	Hydrostatic pressure effects on the lamellar to gyroid cubic phase transition of monolinolein at limited hydration. <i>Langmuir</i> , 2012 , 28, 13018-24	4	29
269	Cross-Amyloid Interaction of A β and IAPP at Lipid Membranes. <i>Angewandte Chemie</i> , 2012 , 124, 703-707	3.6	4
268	Untersuchung der Proteinadsorption während der Zerschäumung mittels Infrarot-Reflexions-Absorptions-Spektroskopie. <i>Chemie-Ingenieur-Technik</i> , 2012 , 84, 1291-1291	0.8	
267	Nonspecific prion protein-nucleic acid interactions lead to different aggregates and cytotoxic species. <i>Biochemistry</i> , 2012 , 51, 5402-13	3.2	48
266	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> , 2012 , 109, 460-5	11.5	93
265	Detection of lipid raft domains in neutral and anionic Langmuir monolayers and bilayers of complex lipid composition. <i>Soft Matter</i> , 2012 , 8, 2170	3.6	16
264	Choline-releasing glycerophosphodiesterase EDI3 links the tumor metabolome to signaling network activities. <i>Cell Cycle</i> , 2012 , 11, 4499-506	4.7	17
263	High-Pressure Vibrational Spectroscopy Studies of the Folding, Misfolding and Amyloidogenesis of Proteins 2012 , 117-146		
262	Effects of specific versus nonspecific ionic interactions on the structure and lateral organization of lipopolysaccharides. <i>Biophysical Journal</i> , 2011 , 100, 2169-77	2.9	42
261	Nonlinear pressure dependence of the interaction potential of dense protein solutions. <i>Physical Review Letters</i> , 2011 , 106, 178102	7.4	50
260	Structure and phase behavior of archaeal lipid monolayers. <i>Langmuir</i> , 2011 , 27, 13113-21	4	18
259	Volumetric properties of hydrated peptides: Voronoi-Delaunay analysis of molecular simulation runs. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 14217-28	3.4	45
258	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> , 2011 , 1808, 1187-95	3.8	38
257	Interaction of hIAPP and Its Precursors with Model and Biological Membranes 2011 , 93-120		1
256	Protein hydration and volumetric properties. <i>Current Opinion in Colloid and Interface Science</i> , 2011 , 16, 568-571	7.6	26

255	Structural plasticity of staphylococcal nuclease probed by perturbation with pressure and pH. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011 , 79, 1293-305	4.2	26
254	Exploring the Piezophilic Behavior of Natural Cosolvent Mixtures. <i>Angewandte Chemie</i> , 2011 , 123, 11615-11618	3.6	13
253	Exploring the piezophilic behavior of natural cosolvent mixtures. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 11413-6	16.4	71
252	Phase behavior and kinetics of pressure-jump induced phase transitions of bicellar lipid mixtures. <i>Soft Matter</i> , 2011 , 7, 2709	3.6	12
251	Membrane-mediated induction and sorting of K-Ras microdomain signaling platforms. <i>Journal of the American Chemical Society</i> , 2011 , 133, 880-7	16.4	116
250	Comparing the structural properties of human and rat islet amyloid polypeptide by MD computer simulations. <i>Biophysical Chemistry</i> , 2011 , 156, 43-50	3.5	41
249	Applications of pressure perturbation calorimetry in biophysical studies. <i>Biophysical Chemistry</i> , 2011 , 156, 13-23	3.5	34
248	High pressure cell for neutron reflectivity measurements up to 2500 bar. <i>Review of Scientific Instruments</i> , 2011 , 82, 025106	1.7	11
247	Methoden der Biophysikalischen Chemie 2011 ,		8
246	Volume changes associated with guanidine hydrochloride, temperature, and ethanol induced unfolding of lysozyme. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 16881-6	3.4	26
245	Influence of the lipid anchor motif of N-ras on the interaction with lipid membranes: a surface plasmon resonance study. <i>Biophysical Journal</i> , 2010 , 98, 2226-35	2.9	17
244	Unique features of the folding landscape of a repeat protein revealed by pressure perturbation. <i>Biophysical Journal</i> , 2010 , 98, 2712-21	2.9	36
243	Compressibilities and volume fluctuations of archaeal tetraether liposomes. <i>Biophysical Journal</i> , 2010 , 99, 3319-26	2.9	27
242	Microdomains in lipid vesicles: structure and distribution assessed by small-angle neutron scattering. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 5643-8	3.4	24
241	Visualizing association of lipidated signaling proteins in heterogeneous membranes--partitioning into subdomains, lipid sorting, interfacial adsorption, and protein association. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010 , 1798, 1409-17	3.8	23
240	High-pressure SAXS study of folded and unfolded ensembles of proteins. <i>Biophysical Journal</i> , 2010 , 99, 3430-7	2.9	40
239	Unraveling the pressure effect on nucleation processes of amyloidogenic proteins. <i>ChemPhysChem</i> , 2010 , 11, 2016-20	3.2	
238	Interaction of hIAPP with model raft membranes and pancreatic beta-cells: cytotoxicity of hIAPP oligomers. <i>ChemBioChem</i> , 2010 , 11, 1280-90	3.8	68

237	Synthesis of the Rheb and K-Ras4B GTPases. <i>Angewandte Chemie</i> , 2010 , 122, 6226-6231	3.6	11
236	Synthesis of the Rheb and K-Ras4B GTPases. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 6090-516.4	5.6	68
235	Influence of pressure on the state of poly(N-isopropylacrylamide) and poly(N,N-diethylacrylamide) derived polymers in aqueous solution as probed by FTIR-spectroscopy. <i>Polymer</i> , 2010 , 51, 3653-3659	3.9	30
234	Suppression of IAPP fibrillation at anionic lipid membranes via IAPP-derived amyloid inhibitors and insulin. <i>Biophysical Chemistry</i> , 2010 , 150, 73-9	3.5	63
233	Exploring the Energy and Conformational Landscape of Biomolecules Under Extreme Conditions. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2010 , 573-590	0.2	1
232	The Effect of Incorporation of Gramicidin on the Translational Lipid Diffusion in Bicontinuous Cubic Monoolein/Water Mesophases. <i>Zeitschrift Fur Physikalische Chemie</i> , 2009 , 223, 1063-1077	3.1	
231	Influence of membrane lipid composition on the activity of functionally reconstituted LmrA under high hydrostatic pressure. <i>High Pressure Research</i> , 2009 , 29, 344-357	1.6	4
230	Influence of membrane organization on the dimerization ability of ToxR from <i>Photobacterium profundum</i> under high hydrostatic pressure. <i>High Pressure Research</i> , 2009 , 29, 431-442	1.6	4
229	Fluorescence microscopy studies on islet amyloid polypeptide fibrillation at heterogeneous and cellular membrane interfaces and its inhibition by resveratrol. <i>FEBS Letters</i> , 2009 , 583, 1439-45	3.8	58
228	Inhibiting islet amyloid polypeptide fibril formation by the red wine compound resveratrol. <i>ChemBioChem</i> , 2009 , 10, 445-9	3.8	113
227	NMR spectroscopic investigation of early events in IAPP amyloid fibril formation. <i>ChemBioChem</i> , 2009 , 10, 1769-72	3.8	52
226	Die Lipidmodifikationen von Ras passen sich an die Membranumgebung an und beeinflussen die lokale Konzentration. <i>Angewandte Chemie</i> , 2009 , 121, 8942-8945	3.6	8
225	The lipid modifications of Ras that sense membrane environments and induce local enrichment. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8784-7	16.4	62
224	Marasmius scorodoni extracellular dimeric peroxidase - exploring its temperature and pressure stability. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2009 , 1794, 1091-8	4	23
223	Aggregation of amyloidogenic peptides near hydrophobic and hydrophilic surfaces. <i>Langmuir</i> , 2009 , 25, 8111-6	4	18
222	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> , 2009 , 131, 1557-64	16.4	94
221	Demixing transition of the aqueous solution of amyloidogenic peptides: a REMD simulation study. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 9863-70	3.4	8
220	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> , 2009 , 131, 9516-21	16.4	96

219	Volumetric Properties of Hydration Water. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 11110-11118	3.8	9
218	Effects of temperature and pressure on the lateral organization of model membranes with functionally reconstituted multidrug transporter LmrA. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009 , 1788, 390-401	3.8	17
217	Amyloidogenic propensities and conformational properties of ProlAPP and IAPP in the presence of lipid bilayer membranes. <i>Journal of Molecular Biology</i> , 2009 , 389, 907-20	6.5	73
216	Interaction of IAPP and insulin with model interfaces studied using neutron reflectometry. <i>Biophysical Journal</i> , 2009 , 96, 1115-23	2.9	29
215	Effect of pressure on membranes. <i>Soft Matter</i> , 2009 , 5, 3157	3.6	164
214	Volumetric Properties of Proteins and the Role of Solvent in Conformational Dynamics 2009 , 173-186		1
213	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> , 2008 , 94, 3538-48	2.9	56
212	Revealing different aggregation pathways of amyloidogenic proteins by ultrasound velocimetry. <i>Biophysical Journal</i> , 2008 , 94, 3241-6	2.9	30
211	Peptide aggregation in finite systems. <i>Biophysical Journal</i> , 2008 , 95, 3208-21	2.9	27
210	Copolymer Microgels from Mono- and Disubstituted Acrylamides: Phase Behavior and Hydrogen Bonds. <i>Macromolecules</i> , 2008 , 41, 6830-6836	5.5	59
209	Effect of pressure on islet amyloid polypeptide aggregation: revealing the polymorphic nature of the fibrillation process. <i>Biochemistry</i> , 2008 , 47, 6352-60	3.2	50
208	X-ray kinematography of phase transformations of three-component lipid mixtures: a time-resolved synchrotron X-ray scattering study using the pressure-jump relaxation technique. <i>Langmuir</i> , 2008 , 24, 11851-9	4	34
207	A pressure-jump time-resolved X-ray diffraction study of cubic-cubic transition kinetics in monoolein. <i>Langmuir</i> , 2008 , 24, 2331-40	4	50
206	Effect of temperature, pressure, and cosolvents on structural and dynamic properties of the hydration shell of SNase: a molecular dynamics computer simulation study. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 997-1006	3.4	36
205	Influence of high pressure on the dimerization of ToxR, a protein involved in bacterial signal transduction. <i>Applied and Environmental Microbiology</i> , 2008 , 74, 7821-3	4.8	19
204	Intrinsic thermal expansivity and hydrational properties of amyloid peptide Abeta42 in liquid water. <i>Journal of Chemical Physics</i> , 2008 , 129, 195101	3.9	29
203	Composition Fluctuations in Phospholipid-Sterol Vesicles [a Small-angle Neutron Scattering Study. <i>Zeitschrift Fur Physikalische Chemie</i> , 2008 , 222, 1679-1692	3.1	5
202	Islet amyloid polypeptide and high hydrostatic pressure: towards an understanding of the fibrillization process. <i>Journal of Physics: Conference Series</i> , 2008 , 121, 112002	0.3	1

201	Pressure Perturbation Calorimetric Studies on Phospholipid-Sterol Mixtures. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2008 , 63, 769-778	1	4
200	The temperature-pressure phase diagram of a DPPC-ergosterol fungal model membrane -- a SAXS and FT-IR spectroscopy study. <i>Chemistry and Physics of Lipids</i> , 2008 , 152, 57-63	3.7	16
199	An access to buried interfaces: the X-ray reflectivity set-up of BL9 at DELTA. <i>Journal of Synchrotron Radiation</i> , 2008 , 15, 600-5	2.4	25
198	Towards a quantitative understanding of protein hydration and volumetric properties. <i>ChemPhysChem</i> , 2008 , 9, 2715-21	3.2	52
197	Small-angle X-ray scattering and near-infrared vibrational spectroscopy of water confined in aerosol-OT reverse micelles. <i>ChemPhysChem</i> , 2008 , 9, 2794-801	3.2	20
196	Effect of osmolytes on pressure-induced unfolding of proteins: a high-pressure SAXS study. <i>ChemPhysChem</i> , 2008 , 9, 2809-15	3.2	90
195	The solvent-dependent shift of the amide I band of a fully solvated peptide as a local probe for the solvent composition in the peptide/solvent interface. <i>ChemPhysChem</i> , 2008 , 9, 2742-50	3.2	11
194	Intrinsic volumetric properties of trialanine isomers in aqueous solution. <i>ChemPhysChem</i> , 2008 , 9, 2779-84	3.2	8
193	Interplay between hydrogen bonding and macromolecular architecture leading to unusual phase behavior in thermosensitive microgels. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 338-41	16.4	84
192	Small-molecule inhibitors of islet amyloid polypeptide fibril formation. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 4679-82	16.4	97
191	Cold- and pressure-induced dissociation of protein aggregates and amyloid fibrils. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6518-21	16.4	100
190	Interplay between Hydrogen Bonding and Macromolecular Architecture Leading to Unusual Phase Behavior in Thermosensitive Microgels. <i>Angewandte Chemie</i> , 2008 , 120, 344-347	3.6	27
189	Small-Molecule Inhibitors of Islet Amyloid Polypeptide Fibril Formation. <i>Angewandte Chemie</i> , 2008 , 120, 4757-4760	3.6	14
188	Kälte- und druckinduzierte Dissoziation von Proteinaggregaten und Amyloidfibrillen. <i>Angewandte Chemie</i> , 2008 , 120, 6618-6621	3.6	20
187	Effects of lipid confinement on insulin stability and amyloid formation. <i>Langmuir</i> , 2007 , 23, 7118-26	4	33
186	V(i)-value analysis: a pressure-based method for mapping the folding transition state ensemble of proteins. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14108-9	16.4	32
185	Fluorescence spectroscopic studies of pressure effects on Na ⁺ ,K ⁽⁺⁾ -ATPase reconstituted into phospholipid bilayers and model raft mixtures. <i>Biochemistry</i> , 2007 , 46, 1672-83	3.2	28
184	Mechanism of islet amyloid polypeptide fibrillation at lipid interfaces studied by infrared reflection absorption spectroscopy. <i>Biophysical Journal</i> , 2007 , 93, 3132-41	2.9	165

183	Protein-protein interactions in complex cosolvent solutions. <i>ChemPhysChem</i> , 2007 , 8, 679-89	3.2	49
182	The small-angle and wide-angle X-ray scattering set-up at beamline BL9 of DELTA. <i>Journal of Synchrotron Radiation</i> , 2007 , 14, 244-51	2.4	50
181	Capturing the interaction potential of amyloidogenic proteins. <i>Physical Review Letters</i> , 2007 , 99, 028101	7.4	35
180	The effects of various membrane physical-chemical properties on the aggregation kinetics of insulin. <i>Chemistry and Physics of Lipids</i> , 2007 , 149, 28-39	3.7	26
179	Towards an Understanding of the Temperature/ Pressure Configurational and Free-Energy Landscape of Biomolecules. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2007 , 32,	3.8	77
178	Stability of Proteins Confined in MCM-48 Mesoporous Molecular Sieves [The Effects of pH, Temperature and Co-solvents. <i>Zeitschrift Fur Physikalische Chemie</i> , 2007 , 221, 139-154	3.1	6
177	Cytotoxicity of insulin within its self-assembly and amyloidogenic pathways. <i>Journal of Molecular Biology</i> , 2007 , 370, 372-84	6.5	72
176	Protein amyloidogenesis in the context of volume fluctuations: a case study on insulin. <i>ChemPhysChem</i> , 2006 , 7, 1046-9	3.2	36
175	Dynamics of structural transformations between lamellar and inverse bicontinuous cubic lyotropic phases. <i>Physical Review Letters</i> , 2006 , 96, 108102	7.4	97
174	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> , 2006 , 8, 1249-65	3.6	110
173	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> , 2006 , 90, 956-66	2.9	48
172	Insertion of lipidated Ras proteins into lipid monolayers studied by infrared reflection absorption spectroscopy (IRRAS). <i>Biophysical Journal</i> , 2006 , 91, 1388-401	2.9	48
171	Fourier transform infrared spectroscopy provides a fingerprint for the tetramer and for the aggregates of transthyretin. <i>Biophysical Journal</i> , 2006 , 91, 957-67	2.9	36
170	Pressure tuning of the morphology of heterogeneous lipid vesicles: a two-photon-excitation fluorescence microscopy study. <i>Biophysical Journal</i> , 2006 , 91, 2936-42	2.9	37
169	Visualizing association of N-ras in lipid microdomains: influence of domain structure and interfacial adsorption. <i>Journal of the American Chemical Society</i> , 2006 , 128, 192-201	16.4	117
168	Origins of life and biochemistry under high-pressure conditions. <i>Chemical Society Reviews</i> , 2006 , 35, 858-885	3.5	197
167	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> , 2006 , 1758, 248-58	3.8	60
166	Solvation-assisted pressure tuning of insulin fibrillation: from novel aggregation pathways to biotechnological applications. <i>Journal of Molecular Biology</i> , 2006 , 356, 497-509	6.5	97

165	The effects of temperature, pressure and peptide incorporation on ternary model raft mixtures--a Laurdan fluorescence spectroscopy study. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006 , 1764, 398-404	4	8
164	Incorporation of alpha-chymotrypsin into the 3D channels of bicontinuous cubic lipid mesophases. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006 , 1764, 424-33	4	31
163	The use of pressure-jump relaxation kinetics to study protein folding landscapes. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2006 , 1764, 489-96	4	21
162	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> , 2006 , 1764, 522-34	4	43
161	Percolation transition of hydration water: from planar hydrophilic surfaces to proteins. <i>Physical Review Letters</i> , 2005 , 95, 247802	7.4	52
160	Properties of spanning water networks at protein surfaces. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 10995-1005	3.4	58
159	Using pressure in combination with x-ray and neutron scattering techniques for studying the structure, stability and phase behaviour of soft condensed matter and biomolecular systems. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, S3077-S3092	1.8	10
158	Template-controlled conformational patterns of insulin fibrillar self-assembly reflect history of solvation of the amyloid nuclei. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 1349-51	3.6	34
157	Thermodynamic properties underlying the alpha-helix-to-beta-sheet transition, aggregation, and amyloidogenesis of polylysine as probed by calorimetry, densimetry, and ultrasound velocimetry. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19043-5	3.4	34
156	Solvational tuning of the unfolding, aggregation and amyloidogenesis of insulin. <i>Journal of Molecular Biology</i> , 2005 , 351, 879-94	6.5	84
155	Amyloidogenic self-assembly of insulin aggregates probed by high resolution atomic force microscopy. <i>Biophysical Journal</i> , 2005 , 88, 1344-53	2.9	237
154	Pressure perturbation and differential scanning calorimetric studies of bipolar tetraether liposomes derived from the thermoacidophilic archaeon <i>Sulfolobus acidocaldarius</i> . <i>Biophysical Journal</i> , 2005 , 89, 1841-9	2.9	35
153	The amino-terminal PrP domain is crucial to modulate prion misfolding and aggregation. <i>Biophysical Journal</i> , 2005 , 89, 2667-76	2.9	56
152	Ethanol-perturbed amyloidogenic self-assembly of insulin: looking for origins of amyloid strains. <i>Biochemistry</i> , 2005 , 44, 8948-58	3.2	103
151	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> , 2005 , 21, 3559-71	4	54
150	Formation of spanning water networks on protein surfaces via 2D percolation transition. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1988-98	3.4	91
149	Kinetics and mechanism of the interconversion of inverse bicontinuous cubic mesophases. <i>Physical Review E</i> , 2005 , 72, 011502	2.4	66
148	Pressure Effects on the Structure and Phase Behavior of Phospholipid/Polypeptide Bilayers I: A Synchrotron Small-Angle X-ray Scattering and ² H-NMR Spectroscopy Study on DPPC/Tramycin Lipid Bilayers. <i>Zeitschrift Fur Physikalische Chemie</i> , 2005 , 219, 1321-1345	3.1	5

147	High Pressure Effects in Molecular Bioscience 2005 , 29-82		4
146	Exploring the temperature-pressure configurational landscape of biomolecules: from lipid membranes to proteins. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2005 , 363, 537-62; discussion 562-3	3	86
145	Thermal breaking of spanning water networks in the hydration shell of proteins. <i>Journal of Chemical Physics</i> , 2005 , 123, 224905	3.9	43
144	Volume and energy folding landscape of prion protein revealed by pressure. <i>Brazilian Journal of Medical and Biological Research</i> , 2005 , 38, 1195-201	2.8	9
143	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> , 2004 , 279, 32354-9	5.4	86
142	Insulin forms amyloid in a strain-dependent manner: an FT-IR spectroscopic study. <i>Protein Science</i> , 2004 , 13, 1927-32	6.3	117
141	Pressure perturbation calorimetry: a new technique provides surprising results on the effects of co-solvents on protein solvation and unfolding behaviour. <i>ChemPhysChem</i> , 2004 , 5, 566-71	3.2	50
140	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> , 2004 , 6, 1899-1905	3.6	39
139	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> , 2004 , 43, 3336-45	3.2	63
138	Hydration and structure—the two sides of the insulin aggregation process. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 1938-1943	3.6	40
137	Small-scale composition fluctuations and microdomain formation in lipid raft models as revealed by small-angle neutron scattering. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 5531	3.6	27
136	Pressure perturbation calorimetric studies of the solvation properties and the thermal unfolding of staphylococcal nuclease. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 1952	3.6	44
135	Partitioning of dual-lipidated peptides into membrane microdomains: lipid sorting vs peptide aggregation. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7496-503	16.4	53
134	Static and time-resolved synchrotron small-angle x-ray scattering studies of lyotropic lipid mesophases, model biomembranes and proteins in solution. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S327-S352	1.8	17
133	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> , 2004 , 126, 3762-8	16.4	65
132	Molecular Dynamics Simulations of Staphylococcal Nuclease: Properties of Water at the Protein Surface. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15928-15937	3.4	72
131	High pressure promotes circularly shaped insulin amyloid. <i>Journal of Molecular Biology</i> , 2004 , 338, 203-66.5		75
130	Protein encapsulation in mesoporous silicate: the effects of confinement on protein stability, hydration, and volumetric properties. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12224-5	16.4	175

129	Folding and unfolding of an elastinlike oligopeptide: "inverse temperature transition," reentrance, and hydrogen-bond dynamics. <i>Physical Review Letters</i> , 2004 , 92, 148101	7.4	60
128	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> , 2004 , 86, 1385-92	2.9	75
127	Temperature-pressure configurational landscape of lipid bilayers and proteins. <i>Cellular and Molecular Biology</i> , 2004 , 50, 397-417	1.1	25
126	Volumetric Properties, Compressibilities and Volume Fluctuations in Phospholipid-Cholesterol Bilayers. <i>Zeitschrift Fur Physikalische Chemie</i> , 2003 , 217, 831-846	3.1	24
125	High Pressure NMR Studies on Lyotropic Lipid Mesophases and Model Biomembranes. <i>Annual Reports on NMR Spectroscopy</i> , 2003 , 50, 163-200	1.7	15
124	Heat, Cold and Pressure Induced Denaturation of Proteins. <i>Spectroscopy</i> , 2003 , 17, 367-376		9
123	Pressure Perturbation Calorimetric Studies of the Solvation Properties and the Thermal Unfolding of Proteins in Solution. <i>Zeitschrift Fur Physikalische Chemie</i> , 2003 , 217, 1221-1244	3.1	26
122	Interaction of cytochrome c with cubic monoolein mesophases at limited hydration conditions: The effects of concentration, temperature and pressure. <i>Physical Chemistry Chemical Physics</i> , 2003 , 5, 1440-1450	3.6	34
121	On the temperature--pressure free-energy landscape of proteins. <i>ChemPhysChem</i> , 2003 , 4, 359-65	3.2	105
120	Thermotropic and piezotropic phase behaviour of phospholipids in propanediols and water. <i>Chemical Physics Letters</i> , 2003 , 371, 670-674	2.5	2
119	Differential Properties of the Sterols Cholesterol, Ergosterol, β -sitosterol, trans-7-Dehydrocholesterol, Stigmasterol and Lanosterol on DPPC Bilayer Order. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 10658-10664	3.4	101
118	Pressure-induced phase changes of cubic monoolein - Cytochrome C mesophases. <i>High Pressure Research</i> , 2003 , 23, 101-104	1.6	1
117	Aggregation of bovine insulin probed by DSC/PPC calorimetry and FTIR spectroscopy. <i>Biochemistry</i> , 2003 , 42, 11347-55	3.2	160
116	Structure and Conformation of Bipolar Tetraether Lipid Membranes Derived from Thermoacidophilic Archaeon <i>Sulfolobus acidocaldarius</i> as Revealed by Small-Angle X-ray Scattering and High-Pressure FT-IR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 8694-8700	3.4	28
115	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> , 2003 , 330, 1153-64	6.5	93
114	The Transition to the Metallic State in Alkali and Low-Z Fluids. <i>Zeitschrift Fur Physikalische Chemie</i> , 2003 , 217, 795-802	3.1	3
113	The Role of Matrix Structure in Pressure Regulation of Enzymes Encapsulated in Ternary Surfactant-Water-Organic Solvent Systems 2003 , 235-239		
112	Temperature- and Pressure-induced Unfolding of β -Chymotrypsin 2003 , 117-120		4

111	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> , 2002 , 68, 1088-95	4.8	101
110	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> , 2002 , 1595, 160-84		138
109	Structure of water confined in the gyroid cubic phase of the lipid monoelaidin. <i>Journal of Molecular Liquids</i> , 2002 , 98-99, 285-293	6	6
108	Temperature- and pressure-induced unfolding of ubiquitin. <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 11485-11488	1.8	1
107	Enzymes in membrane-like surfactant-based media: perspectives for pressure regulation. <i>Progress in Biotechnology</i> , 2002 , 19, 159-165		3
106	Physikalische Chemie 2001. <i>Nachrichten Aus Der Chemie</i> , 2002 , 50, 336-345	0.1	
105	Pressure effects on the structure and phase behavior of phospholipid-gramicidin bilayer membranes. <i>Progress in Biotechnology</i> , 2002 , 19, 131-138		
104	Small-Angle Neutron Scattering Study of the Effect of Pressure on AOT $\bar{\text{n}}$ -Octane/Water Mesophases and the Effect of $\bar{\text{E}}$ -Chymotrypsin Incorporation. <i>Langmuir</i> , 2002 , 18, 8626-8632	4	20
103	Temperature- and pressure-induced unfolding and refolding of ubiquitin: a static and kinetic Fourier transform infrared spectroscopy study. <i>Biochemistry</i> , 2002 , 41, 2396-401	3.2	77
102	Kinetics and Mechanism of the Lamellar to Gyroid Inverse Bicontinuous Cubic Phase Transition. <i>Langmuir</i> , 2002 , 18, 7384-7392	4	68
101	Modulation of concentration fluctuations in phase-separated lipid membranes by polypeptide insertion. <i>Biophysical Journal</i> , 2002 , 83, 334-44	2.9	36
100	Pressure dependence of the photocycle kinetics of bacteriorhodopsin. <i>Biophysical Journal</i> , 2002 , 83, 3490-8	2.9	25
99	Effects of hydrostatic pressure on lipid and surfactant phases. <i>Current Opinion in Colloid and Interface Science</i> , 2001 , 6, 303-312	7.6	55
98	Volume, expansivity and isothermal compressibility changes associated with temperature and pressure unfolding of Staphylococcal nuclease. <i>Journal of Molecular Biology</i> , 2001 , 307, 1091-102	6.5	125
97	Pressure-jump small-angle x-ray scattering detected kinetics of staphylococcal nuclease folding. <i>Biophysical Journal</i> , 2001 , 80, 1518-23	2.9	92
96	Effect of temperature on the conformation of lysozyme adsorbed to silica particles. <i>Physical Chemistry Chemical Physics</i> , 2001 , 3, 235-239	3.6	85
95	High-pressure ^1H NMR on model biomembranes: a study of the local anaesthetic tetracaine incorporated into POPC lipid bilayers. <i>Magnetic Resonance in Chemistry</i> , 2000 , 38, 662-667	2.1	14
94	Relating structure and translational dynamics in aqueous dispersions of monoolein. <i>Chemistry and Physics of Lipids</i> , 2000 , 106, 115-26	3.7	31

93	Static structure factor and pair correlation function of liquid KBi over a temperature interval of 1100K. <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 425-426	2.8	2
92	The microscopic structure of liquid mercury from neutron and X-ray diffraction. <i>Physica B: Condensed Matter</i> , 2000 , 276-278, 452-453	2.8	8
91	Pressure effects on the structure of lyotropic lipid mesophases and model biomembrane systems. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2000 , 215, 454-474	1	51
90	Structure of the equiatomic liquid alloys KBb, KBi, and RbBi over a wide temperature range. <i>Journal of Chemical Physics</i> , 2000 , 112, 7551-7556	3.9	9
89	NMR study of translational and rotational dynamics in monoolein-water mesophases: obstruction and hydration effects. <i>Physical Review E</i> , 2000 , 62, 8182-94	2.4	25
88	Kinetics of Lyotropic Phase Transitions Involving the Inverse Bicontinuous Cubic Phases. <i>Langmuir</i> , 2000 , 16, 3578-3582	4	32
87	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> , 2000 , 2, 4545-4551	3.6	77
86	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. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 151-162	3.6	36
85	Structure of water confined in bicontinuous cubic lipid-water mesophases. <i>Physical Chemistry Chemical Physics</i> , 2000 , 2, 1621-1625	3.6	7
84	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> , 2000 , 71, 3895	1.7	61
83	Pressure-induced unfolding/refolding of ribonuclease A: static and kinetic Fourier transform infrared spectroscopy study. <i>Biochemistry</i> , 2000 , 39, 1862-9	3.2	84
82	Neutron diffraction and computer modeling studies of expanded liquid Cs-Tl. <i>Journal of Chemical Physics</i> , 1999 , 110, 497-500	3.9	2
81	Interaction of the anticancer agent Taxol (paclitaxel) with phospholipid bilayers. <i>Journal of Biomedical Materials Research Part B</i> , 1999 , 46, 141-9		56
80	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> , 1999 , 38, 6512-9	3.2	178
79	Exploring the temperature-pressure phase diagram of staphylococcal nuclease. <i>Biochemistry</i> , 1999 , 38, 4157-64	3.2	186
78	Inverse bicontinuous cubic phases in fatty acid/phosphatidylcholine mixtures: the effects of pressure and lipid composition. <i>Physical Chemistry Chemical Physics</i> , 1999 , 1, 887-893	3.6	49
77	Use of the Voronoi polyhedra method for analyzing short-range-order of liquid cesium and its reproducibility in reverse Monte Carlo modeling. <i>Journal of Non-Crystalline Solids</i> , 1999 , 250-252, 40-44	3.9	6
76	Neutron diffraction on mercury: density dependence of the static structure factor. <i>Journal of Non-Crystalline Solids</i> , 1999 , 250-252, 35-39	3.9	6

75	Effect of temperature on the structure and electronic properties of the liquid alloy K ₈ B. <i>Journal of Non-Crystalline Solids</i> , 1999 , 250-252, 245-249	3.9	6
74	Power-law fluctuations in phase-separated lipid membranes. <i>Physical Review E</i> , 1999 , 60, 7354-9	2.4	25
73	Pressure-jump studies of the folding/unfolding of trp repressor. <i>Journal of Molecular Biology</i> , 1999 , 288, 461-75	6.5	81
72	Pressure Effects on Lyotropic Lipid Mesophases and Model Membrane Systems Effects on the Structure, Phase Behaviour and Kinetics of Phase Transformations 1999 , 369-403		2
71	Neutron Diffraction Studies of Liquid Alloys up to High Temperatures and Pressures 1999 , 151-185		
70	Polyanionic clustering and electronic properties of the expanded equiatomic liquid alloy cesium-lead. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1998 , 102, 1259-1265		
69	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> , 1998 , 91, 135-144	3.7	48
68	Structural and dynamic properties of liquid sulfur around the β transition. <i>Journal of Non-Crystalline Solids</i> , 1998 , 232-234, 309-313	3.9	9
67	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> , 1998 , 102, 9312-9318	3.4	99
66	Pressure and Temperature Effects on Conformational and Hydrational Properties of Lamellar and Bicontinuous Cubic Phases of the Fully Hydrated Monoacylglyceride MonoelaidinA Fourier Transform-Infrared Spectroscopy Study Using the Diamond Anvil Technique. <i>Langmuir</i> , 1998 , 14, 2903-2909	4	26
65	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> , 1998 , 102, 7262-7271	3.4	66
64	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> , 1998 , 275, 389-402	6.5	239
63	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> , 1998 , 102, 7251-7261	3.4	84
62	Effect of pressure on the stability, phase behaviour and transformation kinetics between structures of lyotropic lipid mesophases and model membrane systems. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 11499-11518	1.8	29
61	Collision-induced depolarized Raman scattering from dense mercury vapor. <i>Physical Review A</i> , 1998 , 57, 2635-2639	2.6	14
60	Methoden der Biophysikalischen Chemie. <i>Teubner-Studienbücher Chemie</i> , 1998 ,		22
59	Lateral organization of binary-lipid membranesEvidence for fractal-like behaviour in the gel-fluid coexistence region. <i>Europhysics Letters</i> , 1997 , 37, 577-582	1.6	18
58	Physikalische Chemie 1996. <i>Nachrichten Aus Der Chemie</i> , 1997 , 45, 188-197		1

57	Effect of hydrostatic pressure on water penetration and rotational dynamics in phospholipid-cholesterol bilayers. <i>Biophysical Journal</i> , 1997 , 72, 1264-77	2.9	98
56	Neutron diffraction studies on expanded liquid Cs?Tl. <i>Physica B: Condensed Matter</i> , 1997 , 234-236, 367-368		5
55	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> , 1996 , 1279, 5-16	3.8	77
54	Survival of polyanions in expanded liquid Zintl alloys. <i>Journal of Non-Crystalline Solids</i> , 1996 , 205-207, 66-70	3.9	5
53	Kinetics and mechanisms of lamellar and non-lamellar phase transitions in aqueous lipid dispersions. <i>Progress in Biotechnology</i> , 1996 , 13, 181-184		
52	The Effect of Temperature and Pressure on Structural and Dynamic Properties of Phospholipid/Sterol Mixtures [A Steady-State and Time-Resolved Fluorescence Anisotropy Study. <i>Zeitschrift Fur Physikalische Chemie</i> , 1996 , 193, 151-173	3.1	19
51	Rate of phase transformations between mesophases of the 1:2 lecithin/fatty acid mixtures DMPC/MA and DPPC/PA - a time-resolved synchrotron X-ray diffraction study. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1996 , 100, 1713-1722		29
50	Wissenschaft Aktuell. <i>Chemie in Unserer Zeit</i> , 1996 , 30, 46-51	0.2	1
49	High pressure synchrotron X-ray diffraction studies of biological molecules using the diamond anvil technique. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996 , 368, 847-851	1.2	19
48	High pressure effects on the structure and mesophase behaviour of supramolecular lipid aggregates and model membrane systems. <i>Progress in Biotechnology</i> , 1996 , 13, 21-28		3
47	High-Pressure Effects on the Structure and Phase Behavior of Model Membrane Systems 1996 ,		2
46	Influence of Cholesterol and β -sitosterol on the Dynamic Behaviour of DPPC as Detected by TMA-DPH and PyrPC Fluorescence: A Fluorescence Lifetime Distribution and Time-Resolved Anisotropy Study. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1995 , 99, 1479-1488		14
45	Computer modelling studies of expanded liquid KPb. <i>Journal of Physics Condensed Matter</i> , 1995 , 7, 5733-5843		17
44	Temperature- and pressure-dependent phase behavior of monoacylglycerides monoolein and monoelaidin. <i>Biophysical Journal</i> , 1995 , 68, 1423-9	2.9	114
43	The Depolarized Interaction Induced Light Scattering Spectrum of Mercury Vapor at Low Density. 1995 , 357-367		
42	High Pressure Volumetric Measurements on Phospholipid Bilayers. <i>Zeitschrift Fur Physikalische Chemie</i> , 1994 , 184, 205-218	3.1	34
41	The structural properties of liquid and quenched sulphur II. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 3619-3628	1.8	29
40	The metal-non-metal transition and the static and dynamic structure factor of expanded liquid alkali metals. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, A245-A248	1.8	23

39	Survival of Polyanions in Expanded Liquid Alloys. <i>Europhysics Letters</i> , 1994 , 27, 221-226	1.6	21
38	On the existence of bicontinuous cubic phases in dioleoylphosphatidylethanolamine. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994 , 98, 1287-1293		48
37	High-pressure differential thermal analysis of lamellar to lamellar and lamellar to non-lamellar lipid phase transitions. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994 , 98, 214-218		22
36	The T,x,p-phase diagram of binary phospholipid mixtures. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1994 , 98, 1585-1589		14
35	Experimental determination of the depolarized interaction-induced light scattering spectrum of mercury vapour at T = 793 K. <i>Journal of Non-Crystalline Solids</i> , 1993 , 156-158, 663-666	3.9	3
34	Structure and dynamics of expanded liquid alkali metals. <i>Journal of Non-Crystalline Solids</i> , 1993 , 156-158, 9-14	3.9	43
33	Influence of the local anesthetic tetracaine on the phase behavior and the thermodynamic properties of phospholipid bilayers. <i>Biophysical Journal</i> , 1993 , 65, 2041-6	2.9	35
32	The metal-non-metal transition and the dynamic structure factor of expanded fluid alkali metals. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, B183-B192	1.8	29
31	Neutron and X-Ray Scattering of Fluids at High Pressure and High Temperature 1993 , 167-199		
30	The electrical conductivity of expanded liquid caesium. <i>Journal of Physics Condensed Matter</i> , 1992 , 4, 1659-1669	1.8	43
29	Depolarized interaction-induced light scattering in mercury vapor: The low-density spectrum. <i>Physical Review A</i> , 1992 , 45, 6910-6913	2.6	16
28	Metallischer Wasserstoff Im Wandel der Zeit. <i>Chemie in Unserer Zeit</i> , 1992 , 26, 285-291	0.2	1
27	The Influence of the Local Anaesthetic Tetracaine on the Temperature and Pressure Dependent Phase Behaviour of Model Biomembranes. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1991 , 95, 811-820		13
26	The Dynamic Structure Factor of Expanded Liquid Rubidium. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1991 , 95, 1133-1136		18
25	Struktur und Dynamik von Modell-Biomembranen. <i>Chemie in Unserer Zeit</i> , 1990 , 24, 71-81	0.2	7
24	High-pressure 2D NOESY experiments on phospholipid vesicles. <i>Journal of Magnetic Resonance</i> , 1990 , 87, 536-547		3
23	High-pressure phase transitions in model biomembranes 1990 , 216-221		6
22	High temperature High pressure neutron scattering experiments on expanded liquid alkali metals. <i>High Pressure Research</i> , 1990 , 4, 549-551	1.6	

21	High pressure neutron-scattering experiments on phospholipid model biomembranes. <i>High Pressure Research</i> , 1990 , 5, 755-757	1.6	
20	The structural properties of liquid, solid and amorphous sulphur. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, SA215-SA218	1.8	10
19	Neutron Scattering Study on Amorphous Sulphur. <i>Europhysics Letters</i> , 1990 , 11, 225-228	1.6	16
18	The structural properties of liquid sulphur. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 8427-8437	1.8	48
17	High pressure 1D and 2D NMR experiments on model biomembranes. <i>High Pressure Research</i> , 1990 , 5, 758-760	1.6	
16	The pore morphology of fluoride catalyzed xerogels. <i>Journal of Materials Research</i> , 1989 , 4, 693-697	2.5	10
15	A SANS Study of High Pressure Phase Transitions in Model Biomembranes. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1989 , 93, 708-717		121
14	High-pressure small-angle neutron scattering (SANS) study of 1,2-dielaidoyl-sn-glycero-3-phosphocholine bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989 , 982, 85-8	3.8	12
13	A SANS study of the effect of catalyst on the growth process of silica gels. <i>Journal of Non-Crystalline Solids</i> , 1989 , 108, 137-142	3.9	23
12	Structure of Expanded Fluid Metals. <i>Physics and Chemistry of Liquids</i> , 1989 , 20, 1-15	1.5	48
11	Flüssige Metalle. <i>Chemie in Unserer Zeit</i> , 1988 , 22, 185-192	0.2	1
10	Neutron-scattering experiments at high temperatures and pressures. <i>High Pressure Research</i> , 1988 , 1, 23-37	1.6	20
9	The structural properties of liquid and quenched sulfur. <i>Journal of Non-Crystalline Solids</i> , 1988 , 106, 100-103	3.9	23
8	The effect of fluoride on the sol-gel process. <i>Journal of Non-Crystalline Solids</i> , 1988 , 105, 214-222	3.9	43
7	Electrical Conductivity of Na-NH ₃ and Cesium in the Critical Region*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1988 , 156, 303-307	3.1	19
6	Optical Reflectivity Study of the Approach to the Metal-Nonmetal Transition in Na-NH ₃ Solutions*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1988 , 156, 207-211	3.1	2
5	Conductivity- and Neutron Scattering Experiments on Expanded Fluid Cesium in the Metal-Nonmetal Transition Region*. <i>Zeitschrift Fur Physikalische Chemie</i> , 1988 , 156, 145-149	3.1	16
4	Structure and forces in expanded liquid cesium. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 7171-7174		36

- 3 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 128
- 2 On a new phase coexistence above the consolute point of Na-NH₃solution. *Journal of Physics F: Metal Physics*, **1981**, 11, L281-L284 7
- 1 On the Norbornyl Cation Problem. *Journal of the American Chemical Society*, **1963**, 85, 169-173 16.4 42