Ralf Biehl

List of Publications by Year
in descending order

51 papers	1,220 citations	331538 21 h-index	377752 34 g-index
51 all docs	51 docs citations	51 times ranked	1378 citing authors

#	Article	IF	Citations
1	Controlled LCST Behavior and Structure Formation of Alternating Amphiphilic Copolymers in Water. Macromolecules, 2022, 55, 1552-1565.	2.2	13
2	Variation of Structural and Dynamical Flexibility of Myelin Basic Protein in Response to Guanidinium Chloride. International Journal of Molecular Sciences, 2022, 23, 6969.	1.8	2
3	Structure and Dynamics of Ribonuclease A during Thermal Unfolding: The Failure of the Zimm Model. Journal of Physical Chemistry B, 2021, 125, 780-788.	1.2	3
4	Spectroscopic and Small-angle X-ray scattering analysis of binding between Copper(II) â^'1-allylimidazole complex, a potential anti-tumor agent, and bovine serum albumin. Bioorganic Chemistry, 2021, 116, 105327.	2.0	3
5	Self assembling cluster crystals from DNA based dendritic nanostructures. Nature Communications, 2021, 12, 7167.	5.8	19
6	Reduced Internal Friction by Osmolyte Interaction in Intrinsically Disordered Myelin Basic Protein. Journal of Physical Chemistry Letters, 2020, 11, 292-296.	2.1	10
7	Mineral precipitation, polymerization properties and bonding performance of universal dental adhesives doped with polyhedral oligomeric silsesquioxanes. International Journal of Adhesion and Adhesives, 2020, 100, 102573.	1.4	8
8	Investigation of Cytotoxicity, Oxidative Stress, and Inflammatory Responses of Tantalum Nanoparticles in THP-1-Derived Macrophages. Mediators of Inflammation, 2020, 2020, 1-14.	1.4	20
9	Poly(propylene imine) dendrimers can bind to PEGylated albumin at PEG and albumin surface: Biophysical examination of a PEGylated platform to transport cationic dendritic nanoparticles. Biopolymers, 2020, 111, e23386.	1.2	3
10	Expanding crystallization tools for nucleic acid complexes using U1A protein variants. Journal of Structural Biology, 2020, 210, 107480.	1.3	6
11	Jscatter, a program for evaluation and analysis of experimental data. PLoS ONE, 2019, 14, e0218789.	1.1	27
12	Localised contacts lead to nanosecond hinge motions in dimeric bovine serum albumin. Physical Chemistry Chemical Physics, 2019, 21, 18477-18485.	1.3	9
13	Creating a synthetic platform for the encapsulation of nanocrystals with covalently bound polymer shells. Nanoscale, 2019, 11, 3847-3854.	2.8	12
14	Structure and Dynamics of Intrinsically Disordered and Unfolded Proteins: Investigations using Small-Angle Scattering and Neutron Spin-Echo Spectroscopy. Biophysical Journal, 2019, 116, 490a-491a.	0.2	0
15	Structure of human telomere G-quadruplex in the presence of a model drug along the thermal unfolding pathway. Nucleic Acids Research, 2018, 46, 11927-11938.	6.5	31
16	Confinement Facilitated Protein Stabilization As Investigated by Small-Angle Neutron Scattering. Journal of the American Chemical Society, 2018, 140, 12720-12723.	6.6	26
17	Influence of PEGylation on Domain Dynamics of Phosphoglycerate Kinase: PEG Acts Like Entropic Spring for the Protein. Bioconjugate Chemistry, 2018, 29, 1950-1960.	1.8	16
18	Bioactivity and properties of a dental adhesive functionalized with polyhedral oligomeric silsesquioxanes (POSS) and bioactive glass. Dental Materials, 2017, 33, 1056-1065.	1.6	33

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19	AÎ²42 pentamers/hexamers are the smallest detectable oligomers in solution. Scientific Reports, 2017, 7, 2493.	1.6	49
20	Monomeric Amyloid Beta Peptide in Hexafluoroisopropanol Detected by Small Angle Neutron Scattering. PLoS ONE, 2016, 11, e0150267.	1.1	31
21	Fast antibody fragment motion: flexible linkers act as entropic spring. Scientific Reports, 2016, 6, 22148.	1.6	30
22	Structure and domain dynamics of human lactoferrin in solution and the influence of Fe(III)-ion ligand binding. BMC Biophysics, 2016, 9, 7.	4.4	19
23	Mapping Motions and Structure to a State Necessary for Oligomerization of a Large GTPase: A Joint SAXS, NSE, EPR and FRET Study. Biophysical Journal, 2016, 110, 514a.	0.2	0
24	Protein Entrapment in Polymeric Mesh: Diffusion in Crowded Environment with Fast Process on Short Scales. Macromolecules, 2016, 49, 1941-1949.	2.2	20
25	Fast internal dynamics in alcohol dehydrogenase. Journal of Chemical Physics, 2015, 143, 075101.	1.2	28
26	Slow internal protein dynamics in solution. Journal of Physics Condensed Matter, 2014, 26, 503103.	0.7	30
27	Internal Nanosecond Dynamics in the Intrinsically Disordered Myelin Basic Protein. Journal of the American Chemical Society, 2014, 136, 6987-6994.	6.6	87
28	Bending elastic properties of a block copolymer-rich lamellar phase doped by a surfactant: a neutron spin-echo study. Soft Matter, 2014, 10, 6926-6930.	1.2	7
29	Structure and Dynamics of a Compact State of a Multidomain Protein, the Mercuric Ion Reductase. Biophysical Journal, 2014, 107, 393-400.	0.2	19
30	Neutron Spin-Echo and TOF Reveals Protein Dynamics in Solution. Journal of the Physical Society of Japan, 2013, 82, SA016.	0.7	3
31	Functional Domain Motions in Proteins on the â^¼1â€“100Âns Timescale: Comparison of Neutron Spin-Echo Spectroscopy of Phosphoglycerate Kinase with Molecular-Dynamics Simulation. Biophysical Journal, 2012, 102, 1108-1117.	0.2	42
32	Exploring internal protein dynamics by neutron spin echo spectroscopy. Soft Matter, 2011, 7, 1299-1307.	1.2	41
33	Domain Fluctuations Enable Catalytic Activity in Phosphoglycerate Kinase?. Biophysical Journal, 2011, 100, 171a.	0.2	1
34	Observation of Protein Domain Motions by Neutron Spectroscopy. ChemPhysChem, 2010, 11, 1188-1194.	1.0	7
35	Optical experiments on a crystallizing hard-sphereâ€“polymer mixture at coexistence. Physical Review E, 2010, 81, 051401.	0.8	16
36	Large Domain Fluctuations on 50-ns Timescale Enable Catalytic Activity inÂPhosphoglycerate Kinase. Biophysical Journal, 2010, 99, 2309-2317.	0.2	62

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37	Novel Fusogenic Liposomes for Fluorescent Cell Labeling and Membrane Modification. Bioconjugate Chemistry, 2010, 21, 537-543.	1.8	96
38	Protein in action gefilmt. Physik in Unserer Zeit, 2009, 40, 9-10.	0.0	1
39	Direct Observation of Correlated Interdomain Motion in Alcohol Dehydrogenase. Physical Review Letters, 2008, 101, 138102.	2.9	75
40	Polymer Dynamics from Synthetic to Biological Macromolecules. AIP Conference Proceedings, 2008, , .	0.3	0
41	Fast Microscopic Method for Large Scale Determination of Structure, Morphology, and Quality of Thin Colloidal Crystals. Langmuir, 2006, 22, 1828-1838.	1.6	35
42	Coupled protein domain motion in Taq polymerase revealed by neutron spin-echo spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17646-17651.	3.3	97
43	Drude-type conductivity of charged sphere colloidal crystals: Density and temperature dependence. Journal of Chemical Physics, 2005, 123, 104903.	1.2	24
44	Modes of motion in a confined colloidal suspension under shear. Europhysics Letters, 2004, 66, 291-295.	0.7	17
45	Real space and Fourier microscopy of colloidal suspensions confined to a parallel plate geometry. Review of Scientific Instruments, 2004, 75, 906-914.	0.6	12
46	Diffusion of compact macromolecules through polymer meshes: mesh dynamics and probe dynamics. Physica B: Condensed Matter, 2004, 350, 76-78.	1.3	6
47	Heterogeneous nucleation of colloidal melts under the influence of shearing fields. Journal of Physics Condensed Matter, 2004, 16, S3885-S3902.	0.7	31
48	Fluctuations of bare membranes and their modification on incorporation of polymers having equally spaced anchors. Physica B: Condensed Matter, 2004, 350, 217-219.	1.3	5
49	Sheared colloidal crystals in confined geometry: a real space study on stationary structures under shear. Faraday Discussions, 2003, 123, 133-143.	1.6	24
50	Conductivity of deionized two-component colloidal suspensions. Journal of Chemical Physics, 2001, 114, 7556-7562.	1.2	61
51	In situ Ellipsometric Studies of the growth of a-Si:H films Prepared by the Hot wire Deposition. Materials Research Society Symposia Proceedings, 1996, 420, 425.	0.1	3