

Daniela Russo

List of Publications by Year in descending order

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43
papers

1,485
citations

331670
21
h-index

315739
38
g-index

45
all docs

45
docs citations

45
times ranked

1726
citing authors

#	ARTICLE	IF	CITATIONS
1	Water structure as a function of temperature from X-ray scattering experiments and ab initio molecular dynamics. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 1981.	2.8	189
2	Hydration Dynamics Near a Model Protein Surface. <i>Biophysical Journal</i> , 2004, 86, 1852-1862.	0.5	168
3	Molecular View of Water Dynamics near Model Peptides. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12966-12975.	2.6	122
4	Heat-induced unfolding of neocarzinostatin, a small all- β^2 protein investigated by small-angle X-ray scattering 1 Edited by M. F. Moody. <i>Journal of Molecular Biology</i> , 2001, 308, 721-743.	4.2	106
5	Combining structure and dynamics: non-denaturing high-pressure effect on lysozyme in solution. <i>Journal of the Royal Society Interface</i> , 2009, 6, S619-34.	3.4	86
6	Evidence for Anomalous Hydration Dynamics near a Model Hydrophobic Peptide. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19885-19893.	2.6	56
7	Structure/Function/Dynamics of Photosystem II Plastoquinone Binding Sites. <i>Current Protein and Peptide Science</i> , 2014, 15, 285-295.	1.4	56
8	Vibrational Density of States of Hydration Water at Biomolecular Sites: Hydrophobicity Promotes Low Density Amorphous Ice Behavior. <i>Journal of the American Chemical Society</i> , 2011, 133, 4882-4888.	13.7	53
9	Water hydrogen bond analysis on hydrophilic and hydrophobic biomolecule sites. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4968.	2.8	47
10	Dynamic Transition Associated with the Thermal Denaturation of a Small Beta Protein. <i>Biophysical Journal</i> , 2002, 83, 2792-2800.	0.5	44
11	The impact of kosmotropes and chaotropes on bulk and hydration shell water dynamics in a model peptide solution. <i>Chemical Physics</i> , 2008, 345, 200-211.	1.9	44
12	IN13 Backscattering Spectrometer at ILL: Looking for Motions in Biological Macromolecules and Organisms. <i>Neutron News</i> , 2008, 19, 14-18.	0.2	43
13	Hydration water dynamics of a completely hydrophobic oligopeptide. <i>Chemical Physics</i> , 2003, 292, 235-245.	1.9	32
14	The impact of hydration water on the dynamics of side chains of hydrophobic peptides: From dry powder to highly concentrated solutions. <i>Journal of Chemical Physics</i> , 2009, 130, 235101.	3.0	31
15	The impact of high hydrostatic pressure on structure and dynamics of β^2 -lactoglobulin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4974-4980.	2.4	31
16	Connection between slow and fast dynamics of molecular liquids around the glass transition. <i>Physical Review E</i> , 2010, 82, 021508.	2.1	30
17	Reversible Bioconjugation: Biodegradable Poly(phosphate)-Protein Conjugates. <i>Macromolecular Bioscience</i> , 2017, 17, .	4.1	28
18	Investigation into the Relaxation Dynamics of Polymer-Protein Conjugates Reveals Surprising Role of Polymer Solvation on Inherent Protein Flexibility. <i>Biomacromolecules</i> , 2016, 17, 141-147.	5.4	27

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19	Pressure effects on collective density fluctuations in water and protein solutions. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11410-11415.	7.1	27
20	Effects of hydration water on protein methyl group dynamics in solution. Physical Review E, 2007, 75, 040902.	2.1	24
21	Characterization of the Denatured States Distribution of Neocarzinostatin by Small-Angle Neutron Scattering and Differential Scanning Calorimetry. Biochemistry, 2001, 40, 3958-3966.	2.5	21
22	Evidence of Dynamical Constraints Imposed by Water Organization around a Bioâ€“Hydrophobic Interface. Journal of Physical Chemistry B, 2013, 117, 2829-2836.	2.6	21
23	PPEylation of proteins: Synthesis, activity, and stability of myoglobin-polyphosphoester conjugates. European Polymer Journal, 2018, 108, 357-363.	5.4	20
24	Elastic incoherent neutron scattering as a probe of high pressure induced changes in protein flexibility. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 63-67.	2.3	19
25	Effect of Polymer Chain Density on Proteinâ€“Polymer Conjugate Conformation. Biomacromolecules, 2019, 20, 1944-1955.	5.4	19
26	Painting biological low-frequency vibrational modes from small peptides to proteins. Physical Chemistry Chemical Physics, 2015, 17, 11423-11431.	2.8	18
27	On the behaviour of water hydrogen bonds at biomolecular sites: Dependences on temperature and on network dimensionality. Journal of Molecular Structure, 2010, 972, 81-86.	3.6	17
28	Study of thermally and chemically unfolded conformations of a small Î² ² -protein by means of small-angle neutron scattering. Physica B: Condensed Matter, 2000, 276-278, 520-521.	2.7	11
29	Spectroscopic investigation of ionizing-radiation tolerance of a <i>Chlorophyceae</i> green micro-alga. Journal of Physics Condensed Matter, 2008, 20, 104216.	1.8	11
30	Proteinâ€“Polymer Dynamics as Affected by Polymer Coating and Interactions. Langmuir, 2019, 35, 2674-2679.	3.5	10
31	Insight into Proteinâ€“Polymer Conjugate Relaxation Dynamics: The Importance of Polymer Grafting. Macromolecular Bioscience, 2020, 20, 1900410.	4.1	10
32	IRIDE: Interdisciplinary research infrastructure based on dual electron linacs and lasers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 740, 138-146.	1.6	9
33	Water Collective Dynamics in Whole Photosynthetic Green Algae as Affected by Protein Single Mutation. Journal of Physical Chemistry Letters, 2016, 7, 2429-2433.	4.6	9
34	Brillouin Neutron Spectroscopy as a Probe to Investigate Collective Density Fluctuations in Biomolecules Hydration Water. Spectroscopy, 2012, 27, 293-305.	0.8	8
35	Dynamic and sub-ambient thermal transition relationships in waterâ€“sucrose solutions. Journal of Thermal Analysis and Calorimetry, 2011, 104, 365-374.	3.6	7
36	Nano-confinement of biomolecules: Hydrophilic confinement promotes structural order and enhances mobility of water molecules. Nano Research, 2016, 9, 273-281.	10.4	6

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37	Low frequency dynamics in the enzyme superoxide dismutase revealed by inelastic neutron scattering. Physica B: Condensed Matter, 1997, 234-236, 223-224.	2.7	5
38	In situ molecular dynamics analysis of the water hydrogen bond at biomolecular sites: Hydrophobicity enhances dynamics heterogeneity. Chemical Physics Letters, 2011, 517, 80-85.	2.6	5
39	Dynamics Properties of Photosynthetic Microorganisms Probed by Incoherent Neutron Scattering. Biophysical Journal, 2019, 116, 1759-1768.	0.5	5
40	IQNS-monitored dynamical transition of a small β^2 -protein following heat denaturation. Physica B: Condensed Matter, 2000, 276-278, 499-500.	2.7	4
41	Mapping water dynamics in defined local environment: From hindered rotation to vibrational modes. Journal of Non-Crystalline Solids, 2015, 407, 459-464.	3.1	4
42	Conformation of Myoglobin-Poly(Ethyl Ethylene Phosphate) Conjugates Probed by SANS: Correlation with Polymer Grafting Density and Interaction. Macromolecular Bioscience, 2021, 21, 2000356.	4.1	2
43	Corrigendum to "Heat-Induced Unfolding of Neocarzinostatin, a Small All- β^2 Protein Investigated by Small-Angle X-ray Scattering" [J Mol Biol 308 (2001) 721-743]. Journal of Molecular Biology, 2014, 426, 994.	4.2	0