

# Daniela Russo

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/777725/publications.pdf>

Version: 2024-02-01

43  
papers

1,485  
citations

331259

21  
h-index

315357

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.	1.3	189
2	Hydration Dynamics Near a Model Protein Surface. <i>Biophysical Journal</i> , 2004, 86, 1852-1862.	0.2	168
3	Molecular View of Water Dynamics near Model Peptides. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12966-12975.	1.2	122
4	Heat-induced unfolding of neocarzinostatin, a small all- $\beta^2$ protein investigated by small-angle X-ray scattering 1 Edited by M. F. Moody. <i>Journal of Molecular Biology</i> , 2001, 308, 721-743.	2.0	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.	1.5	86
6	Evidence for Anomalous Hydration Dynamics near a Model Hydrophobic Peptide. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19885-19893.	1.2	56
7	Structure/Function/Dynamics of Photosystem II Plastoquinone Binding Sites. <i>Current Protein and Peptide Science</i> , 2014, 15, 285-295.	0.7	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.	6.6	53
9	Water hydrogen bond analysis on hydrophilic and hydrophobic biomolecule sites. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4968.	1.3	47
10	Dynamic Transition Associated with the Thermal Denaturation of a Small Beta Protein. <i>Biophysical Journal</i> , 2002, 83, 2792-2800.	0.2	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.	0.9	44
12	IN13 Backscattering Spectrometer at ILL: Looking for Motions in Biological Macromolecules and Organisms. <i>Neutron News</i> , 2008, 19, 14-18.	0.1	43
13	Hydration water dynamics of a completely hydrophobic oligopeptide. <i>Chemical Physics</i> , 2003, 292, 235-245.	0.9	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.	1.2	31
15	The impact of high hydrostatic pressure on structure and dynamics of $\beta^2$ -lactoglobulin. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4974-4980.	1.1	31
16	Connection between slow and fast dynamics of molecular liquids around the glass transition. <i>Physical Review E</i> , 2010, 82, 021508.	0.8	30
17	Reversible Bioconjugation: Biodegradable Poly(phosphate)-Protein Conjugates. <i>Macromolecular Bioscience</i> , 2017, 17, .	2.1	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.	2.6	27

#	ARTICLE	IF	CITATIONS
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.	3.3	27
20	Effects of hydration water on protein methyl group dynamics in solution. Physical Review E, 2007, 75, 040902.	0.8	24
21	Characterization of the Denatured States Distribution of Neocarzinostatin by Small-Angle Neutron Scattering and Differential Scanning Calorimetry. Biochemistry, 2001, 40, 3958-3966.	1.2	21
22	Evidence of Dynamical Constraints Imposed by Water Organization around a Bio-“Hydrophobic Interface. Journal of Physical Chemistry B, 2013, 117, 2829-2836.	1.2	21
23	PPEylation of proteins: Synthesis, activity, and stability of myoglobin-polyphosphoester conjugates. European Polymer Journal, 2018, 108, 357-363.	2.6	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.	1.1	19
25	Effect of Polymer Chain Density on Protein-“Polymer Conjugate Conformation. Biomacromolecules, 2019, 20, 1944-1955.	2.6	19
26	Painting biological low-frequency vibrational modes from small peptides to proteins. Physical Chemistry Chemical Physics, 2015, 17, 11423-11431.	1.3	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.	1.8	17
28	Study of thermally and chemically unfolded conformations of a small $\beta^2$ -protein by means of small-angle neutron scattering. Physica B: Condensed Matter, 2000, 276-278, 520-521.	1.3	11
29	Spectroscopic investigation of ionizing-radiation tolerance of a <i>Chlorophyceae</i> green micro-alga. Journal of Physics Condensed Matter, 2008, 20, 104216.	0.7	11
30	Protein-“Polymer Dynamics as Affected by Polymer Coating and Interactions. Langmuir, 2019, 35, 2674-2679.	1.6	10
31	Insight into Protein-“Polymer Conjugate Relaxation Dynamics: The Importance of Polymer Grafting. Macromolecular Bioscience, 2020, 20, 1900410.	2.1	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.	0.7	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.	2.1	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 water-“sucrose solutions. Journal of Thermal Analysis and Calorimetry, 2011, 104, 365-374.	2.0	7
36	Nano-confinement of biomolecules: Hydrophilic confinement promotes structural order and enhances mobility of water molecules. Nano Research, 2016, 9, 273-281.	5.8	6

#	ARTICLE	IF	CITATIONS
37	Low frequency dynamics in the enzyme superoxide dismutase revealed by inelastic neutron scattering. <i>Physica B: Condensed Matter</i> , 1997, 234-236, 223-224.	1.3	5
38	In situ molecular dynamics analysis of the water hydrogen bond at biomolecular sites: Hydrophobicity enhances dynamics heterogeneity. <i>Chemical Physics Letters</i> , 2011, 517, 80-85.	1.2	5
39	Dynamics Properties of Photosynthetic Microorganisms Probed by Incoherent Neutron Scattering. <i>Biophysical Journal</i> , 2019, 116, 1759-1768.	0.2	5
40	IQNS-monitored dynamical transition of a small $\beta^2$ -protein following heat denaturation. <i>Physica B: Condensed Matter</i> , 2000, 276-278, 499-500.	1.3	4
41	Mapping water dynamics in defined local environment: From hindered rotation to vibrational modes. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 459-464.	1.5	4
42	Conformation of Myoglobin-Poly(Ethyl Ethylene Phosphate) Conjugates Probed by SANS: Correlation with Polymer Grafting Density and Interaction. <i>Macromolecular Bioscience</i> , 2021, 21, 2000356.	2.1	2
43	Corrigendum to "Heat-Induced Unfolding of Neocarzinostatin, a Small All- $\beta^2$ Protein Investigated by Small-Angle X-ray Scattering" [J Mol Biol 308 (2001) 721-743]. <i>Journal of Molecular Biology</i> , 2014, 426, 994.	2.0	0