

# Silvina Cervený

## List of Publications by Year in descending order

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75  
papers

2,695  
citations

186265

28  
h-index

182427

51  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2720  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hardening and Fresh State Behaviour of Ternary Cement for Marine Environments: Modification through Nanoadditives. <i>Materials</i> , 2022, 15, 1938.	2.9	3
2	Influence of ice formation on the dynamic and thermodynamic properties of aqueous solutions. <i>Journal of Molecular Liquids</i> , 2022, 356, 119039.	4.9	3
3	Enhancing arsenic adsorption via excellent dispersion of iron oxide nanoparticles inside poly(vinyl Tj ETQq1 1 0.784314 rgBT/Overlo 6.7 38	6.7	38
4	Dynamics of aqueous peptide solutions in folded and disordered states examined by dynamic light scattering and dielectric spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15020-15029.	2.8	4
5	Isotope Effect on the Dynamics of Hydrophilic Solutions at Supercooled Temperatures. <i>ACS Symposium Series</i> , 2021, , 263-281.	0.5	2
6	On the microscopic origin of the cryoprotective effect in lysine solutions. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6919-6927.	2.8	7
7	On the microscopic origins of relaxation processes in aqueous peptide solutions undergoing a glass transition. <i>Journal of Chemical Physics</i> , 2020, 152, 234503.	3.0	9
8	Dynamics of Water in Partially Crystallized Solutions of Glass Forming Materials and Polymers: Implications on the Behavior of Bulk Water. <i>Advances in Dielectrics</i> , 2020, , 169-194.	1.2	0
9	Two-dimensional ordering in 1-propanol-graphite-oxide intercalates: isotopic effects. <i>Molecular Physics</i> , 2019, 117, 3434-3444.	1.7	2
10	Tuning molecular dynamics by hydration and confinement: antiplasticizing effect of water in hydrated pilocaine nanoclusters. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15576-15583.	2.8	9
11	Water dynamics in the hydration shells of biological and non-biological polymers. <i>Journal of Chemical Physics</i> , 2019, 150, 234904.	3.0	19
12	Molecular Insights into Dipole Relaxation Processes in Water-Lysine Mixtures. <i>Journal of Physical Chemistry B</i> , 2019, 123, 6056-6064.	2.6	3
13	Motions of water and solutes—Slaving versus plasticization phenomena. <i>Journal of Chemical Physics</i> , 2019, 150, 124902.	3.0	14
14	The effect of vulcanization additives on the dielectric response of styrene-butadiene rubber compounds. <i>Polymer</i> , 2019, 172, 205-212.	3.8	19
15	Extended Adam-Gibbs Approach To Describe the Segmental Dynamics of Cross-Linked Miscible Rubber Blends. <i>Macromolecules</i> , 2018, 51, 1741-1747.	4.8	5
16	Dynamics of nano-confined water in Portland cement - comparison with synthetic C-S-H gel and other silicate materials. <i>Scientific Reports</i> , 2017, 7, 8258.	3.3	25
17	Linear Viscoelastic and Dielectric Relaxation Response of Unentangled UPy-Based Supramolecular Networks. <i>Macromolecules</i> , 2016, 49, 3899-3910.	4.8	62
18	Comparative study of thermal, mechanical and structural properties of polybutadiene rubber isomers vulcanized using peroxide. <i>Polymer Testing</i> , 2016, 52, 117-123.	4.8	17

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19	Evidence of Coupling between the Motions of Water and Peptides. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4093-4098.	4.6	25
20	Dynamics and Structure of Poly(ethylene oxide) Intercalated in the Nanopores of Resorcinol-Formaldehyde Resin Nanoparticles. <i>Macromolecules</i> , 2016, 49, 5704-5713.	4.8	8
21	Confined Water as Model of Supercooled Water. <i>Chemical Reviews</i> , 2016, 116, 7608-7625.	47.7	250
22	Structural and Dynamical Studies of C-S-H Gel Synthesized with Nano-Silica Particles and Amine Functionalized Silica Nanoparticles. , 2015, , .		0
23	Effect of addition of silica- and amine functionalized silica-nanoparticles on the microstructure of calcium silicate hydrate (C-S-H) gel. <i>Journal of Colloid and Interface Science</i> , 2015, 450, 109-118.	9.4	66
24	Effect of Chemical Environment on the Dynamics of Water Confined in Calcium Silicate Minerals: Natural and Synthetic Tobermorite. <i>Langmuir</i> , 2015, 31, 4964-4972.	3.5	14
25	Dynamics of amorphous and partially crystallized proline solutions. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 486-493.	3.1	8
26	Dynamics of deeply supercooled interfacial water. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 033102.	1.8	58
27	Coupling between amino acid and water dynamics by broadband dielectric spectroscopy. , 2014, , .		1
28	Dielectric spectra broadening as a signature for dipole-matrix interaction. IV. Water in amino acids solutions. <i>Journal of Chemical Physics</i> , 2014, 140, 135104.	3.0	21
29	Dynamics of supercooled water in a biological model system of the amino acid <i>l</i> -lysine. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 22382-22390.	2.8	15
30	Confinement of poly(ethylene oxide) in the nanometer-scale pores of resins and carbon nanoparticles. <i>Soft Matter</i> , 2013, 9, 10960.	2.7	13
31	Chain Length Effects on the Dynamics of Poly(ethylene oxide) Confined in Graphite Oxide: A Broadband Dielectric Spectroscopy Study. <i>Macromolecules</i> , 2013, 46, 7932-7939.	4.8	35
32	Influence of Water and Filler Content on the Dielectric Response of Silica-Filled Rubber Compounds. <i>Macromolecules</i> , 2013, 46, 2407-2416.	4.8	42
33	Cause of the fragile-to-strong transition observed in water confined in C-S-H gel. <i>Journal of Chemical Physics</i> , 2013, 139, 164714.	3.0	23
34	Two-Dimensional Subnanometer Confinement of Ethylene Glycol and Poly(ethylene oxide) by Neutron Spectroscopy: Molecular Size Effects. <i>Macromolecules</i> , 2012, 45, 3137-3144.	4.8	41
35	Dielectric spectroscopy in the GHz region on fully hydrated zwitterionic amino acids. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 11352.	2.8	56
36	Macromolecular Structure and Vibrational Dynamics of Confined Poly(ethylene oxide): From Subnanometer 2D-Intercalation into Graphite Oxide to Surface Adsorption onto Graphene Sheets. <i>ACS Macro Letters</i> , 2012, 1, 550-554.	4.8	38

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37	Dielectric Study of Hydration Water in Silica Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 24340-24349.	3.1	89
38	Component dynamics in polyvinylpyrrolidone concentrated aqueous solutions. Journal of Chemical Physics, 2012, 137, 084902.	3.0	36
39	Dynamics of Water in Supercooled Aqueous Solutions of Poly(propylene glycol) As Studied by Broadband Dielectric Spectroscopy and Low-Temperature FTIR-ATR Spectroscopy. Journal of Physical Chemistry B, 2011, 115, 13817-13827.	2.6	17
40	Polymers under extreme two-dimensional confinement: Poly(ethylene oxide) in graphite oxide. Soft Matter, 2011, 7, 7173.	2.7	46
41	Broadband Dielectric Spectroscopic, Calorimetric, and FTIR-ATR Investigations of D-Arabinose Aqueous Solutions. ChemPhysChem, 2011, 12, 3624-3633.	2.1	9
42	Effect of hydration on the dielectric properties of C-S-H gel. Journal of Chemical Physics, 2011, 134, 034509.	3.0	49
43	Quasielastic neutron scattering study of hydrogen motions in an aqueous poly(vinyl methyl ether) solution. Journal of Chemical Physics, 2011, 134, 204906.	3.0	37
44	Permanent adsorption of organic solvents in graphite oxide and its effect on the thermal exfoliation. Carbon, 2010, 48, 1079-1087.	10.3	103
45	Sorption and desorption behavior of water and organic solvents from graphite oxide. Carbon, 2010, 48, 3277-3286.	10.3	97
46	Water dynamics in poly(vinyl pyrrolidone)-water solution before and after isothermal crystallization. Journal of Non-Crystalline Solids, 2010, 356, 3037-3041.	3.1	12
47	Dynamics of Water Intercalated in Graphite Oxide. Journal of Physical Chemistry C, 2010, 114, 2604-2612.	3.1	202
48	The dynamical behavior of hydrated glutathione: a model for protein-water interactions. Physical Chemistry Chemical Physics, 2010, 12, 10512.	2.8	16
49	Dielectric relaxations in ribose and deoxyribose supercooled water solutions. Journal of Chemical Physics, 2009, 131, 085102.	3.0	20
50	Hydration Water Dynamics in Solutions of Hydrophilic Polymers, Biopolymers and Other Glass Forming Materials by Dielectric Spectroscopy. AIP Conference Proceedings, 2008, , .	0.4	1
51	Dynamics of Amorphous and Semicrystalline 1,4-trans-Poly(isoprene) by Dielectric Spectroscopy. Macromolecules, 2008, 41, 8669-8676.	4.8	42
52	Broadband dielectric investigation on poly(vinyl pyrrolidone) and its water mixtures. Journal of Chemical Physics, 2008, 128, 044901.	3.0	57
53	Universal features of water dynamics in solutions of hydrophilic polymers, biopolymers, and small glass-forming materials. Physical Review E, 2008, 77, 031803.	2.1	127
54	Dielectric properties of water in amorphous mixtures of polymers and other glass forming materials. Journal of Non-Crystalline Solids, 2007, 353, 4523-4527.	3.1	25

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55	Dynamics of confined water in different environments. European Physical Journal: Special Topics, 2007, 141, 49-52.	2.6	24
56	Comment on "Pressure Dependence of Fragile-to-Strong Transition and a Possible Second Critical Point in Supercooled Confined Water". Physical Review Letters, 2006, 97, 189802; discussion 189803.	7.8	55
57	Water dynamics in n-propylene glycol aqueous solutions. Journal of Chemical Physics, 2006, 124, 194501.	3.0	77
58	Dielectric Investigation of the Low-Temperature Water Dynamics in the Poly(vinyl methyl ether)/H <sub>2</sub> O System. Macromolecules, 2005, 38, 7056-7063.	4.8	100
59	Contribution of the Methine Group to the Transverse <sup>1</sup> H NMR Relaxation in Vulcanized Natural Rubbers. Macromolecules, 2004, 37, 5624-5629.	4.8	13
60	Influence of the cure level on the monomeric friction coefficient of natural rubber vulcanizates. Polymer International, 2004, 53, 646-655.	3.1	14
61	Dependence of the network structure of cured styrene butadiene rubber on the sulphur content. Polymer, 2004, 45, 6037-6044.	3.8	66
62	Relaxations of Hydrogen-Bonded Liquids Confined in Two-Dimensional Vermiculite Clay. Journal of Physical Chemistry B, 2004, 108, 11596-11603.	2.6	25
63	Glass Transition and Relaxation Processes in Supercooled Water. Physical Review Letters, 2004, 93, 245702.	7.8	158
64	Thermal aging of carbon black filled rubber compounds. I. Experimental evidence for bridging flocculation. Polymer, 2003, 44, 7229-7240.	3.8	40
65	Characterization of free volume during vulcanization of styrene butadiene rubber by means of positron annihilation lifetime spectroscopy and dynamic mechanical test. Physical Review E, 2002, 65, 021801.	2.1	20
66	Dielectric $\hat{\epsilon}'$ - and $\hat{\epsilon}''$ -Relaxations in Uncured Styrene Butadiene Rubber. Macromolecules, 2002, 35, 4337-4342.	4.8	35
67	Some considerations concerning the dynamic mechanical properties of cured styrene-butadiene rubber/polybutadiene blends. Polymer International, 2000, 49, 216-222.	3.1	23
68	Glass-transition and secondary relaxation in SBR-1502 from dynamic mechanical data. Polymer, 2000, 41, 2227-2230.	3.8	18
69	A numerical simulation of the electrical resistivity of carbon black filled rubber. Polymer, 2000, 41, 6589-6595.	3.8	24
70	Some considerations concerning the dynamic mechanical properties of cured styrene-butadiene rubber/polybutadiene blends. Polymer International, 2000, 49, 216-222.	3.1	1
71	Dynamic properties in aluminum filled PMMA. Polymer, 1999, 40, 1495-1500.	3.8	11
72	Analysis of variation of molecular parameters of natural rubber during vulcanization in conformational tube model. II. Influence of sulfur/accelerator ratio. Journal of Applied Polymer Science, 1999, 74, 2747-2755.	2.6	22

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73	Analysis of the variation of molecular parameters of NR during vulcanization in the frame of the conformational tube model. <i>Journal of Applied Polymer Science</i> , 1997, 66, 1085-1092.	2.6	27
74	A non-linear method for the calculation of the loss tangent distribution function. <i>Rheologica Acta</i> , 1996, 35, 315-320.	2.4	2
75	Influence of the Crosslinking Content on the Structural Properties of Polybutadiene Rubbers with Different Isomeric Composition. <i>Defect and Diffusion Forum</i> , 0, 373, 269-273.	0.4	0