

Jan Swenson

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118
papers

3,950
citations

33
h-index

59
g-index

119
ext. papers

4,304
ext. citations

4.4
avg. IF

5.74
L-index

#	Paper	IF	Citations
118	A unified model of protein dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 5129-34	11.5	575
117	Confined Water as Model of Supercooled Water. <i>Chemical Reviews</i> , 2016 , 116, 7608-25	68.1	196
116	Relaxation processes in supercooled confined water and implications for protein dynamics. <i>Physical Review Letters</i> , 2006 , 96, 247802	7.4	165
115	Glass transition and relaxation processes in supercooled water. <i>Physical Review Letters</i> , 2004 , 93, 245702	7.4	147
114	Mixed alkali effect in glasses. <i>Physical Review Letters</i> , 2003 , 90, 155507	7.4	119
113	The structure and dynamics of 2-dimensional fluids in swelling clays. <i>Chemical Geology</i> , 2006 , 230, 182-196	7.6	102
112	Investigating hydration dependence of dynamics of confined water: monolayer, hydration water and Maxwell-Wagner processes. <i>Journal of Chemical Physics</i> , 2008 , 128, 154503	3.9	100
111	The Role of Trehalose for the Stabilization of Proteins. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 4723-314	3.4	93
110	Diffraction and IR/Raman data do not prove tetrahedral water. <i>Journal of Chemical Physics</i> , 2008 , 129, 084502	3.9	91
109	The protein glass transition as measured by dielectric spectroscopy and differential scanning calorimetry. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010 , 1804, 20-6	4	83
108	Water dynamics in n-propylene glycol aqueous solutions. <i>Journal of Chemical Physics</i> , 2006 , 124, 194501	3.9	72
107	The glass transition and relaxation behavior of bulk water and a possible relation to confined water. <i>Journal of Chemical Physics</i> , 2010 , 132, 014508	3.9	70
106	Properties of hydration water and its role in protein dynamics. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 205109	1.8	66
105	Role of solvent for the dynamics and the glass transition of proteins. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 4099-109	3.4	62
104	Bond valence analysis of transport pathways in RMC models of fast ion conducting glasses. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 3179-3184	3.6	62
103	Dynamics of water in a molecular sieve by quasielastic neutron scattering. <i>Journal of Chemical Physics</i> , 2005 , 122, 84505	3.9	61
102	Structure of mixed alkali/alkaline-earth silicate glasses from neutron diffraction and vibrational spectroscopy. <i>Physical Review B</i> , 2005 , 72,	3.3	60

101	Relation between solvent and protein dynamics as studied by dielectric spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 24134-41	3.4	58
100	Does confined water exhibit a fragile-to-strong transition?. <i>European Physical Journal: Special Topics</i> , 2007 , 141, 53-56	2.3	57
99	Comment on "Pressure dependence of fragile-to-strong transition and a possible second critical point in supercooled confined water". <i>Physical Review Letters</i> , 2006 , 97, 189801; discussion 189803	7.4	54
98	Hidden slow dynamics in water. <i>Physical Review Letters</i> , 2010 , 104, 017802	7.4	52
97	Solvent and lipid dynamics of hydrated lipid bilayers by incoherent quasielastic neutron scattering. <i>Journal of Chemical Physics</i> , 2008 , 129, 045101	3.9	48
96	Migration pathways in Ag-based superionic glasses and crystals investigated by the bond valence method. <i>Physical Review B</i> , 2000 , 63,	3.3	48
95	Dynamics of deeply supercooled interfacial water. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 033102.8	12.8	47
94	Structure conductivity correlation in reverse Monte Carlo models of single and mixed alkali glasses. <i>Solid State Ionics</i> , 2004 , 175, 665-669	3.3	45
93	Glass transition and relaxation processes of nanocomposite polymer electrolytes. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 7762-70	3.4	43
92	Dielectric secondary relaxation of water in aqueous binary glass-formers. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 10452-6	3.6	40
91	Dynamics of Poly(ethylene oxide) around Its Melting Temperature. <i>Macromolecules</i> , 2013 , 46, 6949-6954.5	4.5	39
90	Protein fluctuations explored by inelastic neutron scattering and dielectric relaxation spectroscopy. <i>Philosophical Magazine</i> , 2008 , 88, 3877-3883	1.6	38
89	Relaxation dynamics of a polymer in a 2D confinement. <i>Journal of Chemical Physics</i> , 2004 , 120, 5736-44	3.9	37
88	Different behavior of water in confined solutions of high and low solute concentrations. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 18437-44	3.6	36
87	Application of the bond valence method to reverse Monte Carlo produced structural models of superionic glasses. <i>Physical Review B</i> , 2001 , 64,	3.3	35
86	Dynamics of sugar solutions as studied by dielectric spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2005 , 351, 2858-2863	3.9	34
85	The temperature dependent structure of liquid 1-propanol as studied by neutron diffraction and EPSR simulations. <i>Journal of Chemical Physics</i> , 2013 , 138, 214501	3.9	33
84	Dynamics of a protein and its surrounding environment: a quasielastic neutron scattering study of myoglobin in water and glycerol mixtures. <i>Journal of Chemical Physics</i> , 2009 , 130, 205101	3.9	33

83	Relation between structural and conductivity relaxation in PEO and PEO based electrolytes. <i>Solid State Ionics</i> , 2014 , 262, 785-789	3.3	32
82	Mixed mobile ion effect and cooperative motions in silver-sodium phosphate glasses. <i>Physical Review Letters</i> , 2008 , 101, 195901	7.4	32
81	Calorimetric and relaxation properties of xylitol-water mixtures. <i>Journal of Chemical Physics</i> , 2012 , 136, 104508	3.9	30
80	A dielectric relaxation study of nanocomposite polymer electrolytes. <i>Solid State Ionics</i> , 2012 , 225, 346-349	3.3	30
79	Dielectric and calorimetric studies of hydrated purple membrane. <i>Biophysical Journal</i> , 2005 , 89, 3120-8	2.9	30
78	Bond valence analysis of reverse Monte Carlo produced structural models; a way to understand ion conduction in glasses. <i>Journal of Physics Condensed Matter</i> , 2005 , 17, S87-S101	1.8	30
77	Why is there no clear glass transition of confined water?. <i>Chemical Physics</i> , 2013 , 424, 20-25	2.3	28
76	Properties of normal and glycated human hemoglobin in presence and absence of antioxidant. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 334, 954-9	3.4	28
75	Slow Debye-type peak observed in the dielectric response of polyalcohols. <i>Journal of Chemical Physics</i> , 2010 , 132, 044504	3.9	27
74	Stable Air Nanobubbles in Water: the Importance of Organic Contaminants. <i>Langmuir</i> , 2018 , 34, 11003-11009	11.009	27
73	Long-term frozen storage of wheat bread and dough [Effect of time, temperature and fibre on sensory quality, microstructure and state of water. <i>Journal of Cereal Science</i> , 2013 , 57, 125-133	3.8	26
72	Conduction mechanism in polymeric membranes based on PEO or PVdF-HFP and containing a piperidinium ionic liquid. <i>Electrochimica Acta</i> , 2019 , 299, 979-986	6.7	25
71	Formation and distribution of ice upon freezing of different formulations of wheat bread. <i>Journal of Cereal Science</i> , 2012 , 55, 279-284	3.8	24
70	Relaxations of Hydrogen-Bonded Liquids Confined in Two-Dimensional Vermiculite Clay. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 11596-11603	3.4	24
69	Possible relations between supercooled and glassy confined water and amorphous bulk ice. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 30095-30103	3.6	23
68	Impact of long-term frozen storage on the dynamics of water and ice in wheat bread. <i>Journal of Cereal Science</i> , 2013 , 57, 120-124	3.8	22
67	Interplay between hydration water and headgroup dynamics in lipid bilayers. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 1825-32	3.4	22
66	Exploring the antioxidant property of bioflavonoid quercetin in preventing DNA glycation: a calorimetric and spectroscopic study. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 339, 355-61	3.4	22

65	The slow dielectric Debye relaxation of monoalcohols in confined geometries. <i>Journal of Chemical Physics</i> , 2011 , 134, 104504	3.9	21
64	Evidence of Coupling between the Motions of Water and Peptides. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4093-4098	6.4	21
63	A SANS Study of 3PEG- LiClO_4 - TiO_2 Nanocomposite Polymer Electrolytes. <i>Macromolecules</i> , 2005 , 38, 6666-6671	5.5	19
62	Comment on "Quasielastic neutron scattering of two-dimensional water in a vermiculite clay" [J. Chem. Phys. 113, 2873 (2000)] and "A neutron spin-echo study of confined water" [J. Chem. Phys. 115, 11299 (2001)]. <i>Journal of Chemical Physics</i> , 2004 , 121, 9193-4; discussion 9195	3.9	19
61	Comparative study of ion conducting pathways in borate glasses. <i>Physical Review B</i> , 2006 , 74,	3.3	18
60	Structure of $\text{Ca}_{0.4}\text{K}_{0.6}(\text{NO}_3)_{1.4}$ from the glass to the liquid state. <i>Physical Review B</i> , 2001 , 64,	3.3	18
59	Intermediate-range structure and conductivity of fast ion-conducting borate glasses. <i>Journal of Non-Crystalline Solids</i> , 1998 , 232-234, 658-664	3.9	17
58	Protic Ionic Liquids Based on the Alkyl-Imidazolium Cation: Effect of the Alkyl Chain Length on Structure and Dynamics. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 4044-4054	3.4	16
57	Mechanism of Trehalose-Induced Protein Stabilization from Neutron Scattering and Modeling. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3679-3687	3.4	16
56	Dynamics of aqueous binary glass-formers confined in MCM-41. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 12978-87	3.6	16
55	Size and Refractive Index Determination of Subwavelength Particles and Air Bubbles by Holographic Nanoparticle Tracking Analysis. <i>Analytical Chemistry</i> , 2020 , 92, 1908-1915	7.8	16
54	Water dynamics in the hydration shells of biological and non-biological polymers. <i>Journal of Chemical Physics</i> , 2019 , 150, 234904	3.9	15
53	Dynamical changes of hemoglobin and its surrounding water during thermal denaturation as studied by quasielastic neutron scattering and temperature modulated differential scanning calorimetry. <i>Journal of Chemical Physics</i> , 2008 , 128, 245104	3.9	15
52	Comment on "fraction of boroxol rings in vitreous boron oxide from a first-principles analysis of Raman and NMR spectra". <i>Physical Review Letters</i> , 2006 , 96, 199701; author reply 199702	7.4	15
51	Dynamics of fresh and freeze-dried strawberry and red onion by quasielastic neutron scattering. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13786-92	3.4	15
50	Dynamics of supercooled water in a biological model system of the amino acid L-lysine. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 22382-90	3.6	14
49	Structural relaxations of phospholipids and water in planar membranes. <i>Journal of Chemical Physics</i> , 2009 , 130, 035101	3.9	14
48	Anomalous dynamics of aqueous solutions of di-propylene glycol methylether confined in MCM-41 by quasielastic neutron scattering. <i>Journal of Chemical Physics</i> , 2014 , 141, 214501	3.9	13

47	Hydrogen bond induced nonmonotonic composition behavior of the glass transition in aqueous binary mixtures. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 10013-7	3.4	13
46	Differentiating bulk nanobubbles from nanodroplets and nanoparticles. <i>Current Opinion in Colloid and Interface Science</i> , 2021 , 53, 101427	7.6	13
45	The glass transition and fragility of supercooled confined water. <i>Journal of Physics Condensed Matter</i> , 2004 , 16, S5317-S5327	1.8	12
44	Structure of Aqueous Trehalose Solution by Neutron Diffraction and Structural Modeling. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 12669-12678	3.4	12
43	Dynamics of DiPGME/Water Mixtures in Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 6796-6806	3.8	11
42	Brownian motion of single glycerol molecules in an aqueous solution as studied by dynamic light scattering. <i>Physical Review E</i> , 2015 , 91, 032306	2.4	11
41	Local dimensionality and intermediate range ordering of ion conduction pathways in borate glasses. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 5164-5169	3.9	11
40	The nature of conduction pathways in mixed alkali phosphate glasses. <i>Ionics</i> , 2004 , 10, 396-404	2.7	11
39	Motions of water and solutes-Slaving versus plasticization phenomena. <i>Journal of Chemical Physics</i> , 2019 , 150, 124902	3.9	10
38	Structural Comparison between Sucrose and Trehalose in Aqueous Solution. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 3074-3082	3.4	10
37	Cycling Stability of Poly(ethylene glycol) of Six Molecular Weights: Influence of Thermal Conditions for Energy Applications. <i>ACS Applied Energy Materials</i> , 2020 , 3, 10578-10589	6.1	9
36	Slow dielectric response of Debye-type in water and other hydrogen bonded liquids. <i>Journal of Molecular Structure</i> , 2010 , 972, 92-98	3.4	9
35	Structure of AgNaPO glasses by neutron diffraction and reverse Monte Carlo modelling. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 415115	1.8	9
34	Predictability of ion transport properties from the structure of solid electrolytes. <i>Ionics</i> , 2004 , 10, 317-326	7	9
33	Dynamics of propylene glycol and its oligomers confined to a single molecular layer. <i>Journal of Chemical Physics</i> , 2005 , 122, 244702	3.9	9
32	Protein and solvent dynamics as studied by QENS and dielectric spectroscopy. <i>Journal of Non-Crystalline Solids</i> , 2006 , 352, 4410-4416	3.9	8
31	Dynamics of water in strawberry and red onion as studied by dielectric spectroscopy. <i>Physical Review E</i> , 2005 , 71, 011901	2.4	8
30	Stabilization of proteins embedded in sugars and water as studied by dielectric spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 21197-21207	3.6	8

29	Conductivity-Relaxation Relations in Nanocomposite Polymer Electrolytes Containing Ionic Liquid. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 9699-9707	3.4	7
28	Effect of glycation on the structure and dynamics of DNA: a critical spectroscopic approach. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 646-51	3.4	7
27	Structural investigations of polymer electrolyte poly(propylene oxide)-LiClO ₄ using diffraction experiments and reverse Monte Carlo simulation. <i>Journal of Chemical Physics</i> , 2004 , 121, 12026-37	3.9	7
26	DOPC DOPE as a helper lipid for gene-therapies: molecular dynamics simulations with DLin-MC3-DMA. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 28256-28268	3.6	7
25	Glass transition and relaxation dynamics of propylene glycol-water solutions confined in clay. <i>Journal of Chemical Physics</i> , 2014 , 141, 034505	3.9	5
24	Long-range diffusion in xylitol-water mixtures. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 7363-9	3.4	5
23	Effects of water contamination on the supercooled dynamics of a hydrogen-bonded model glass former. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 1842-7	3.4	5
22	Structure of Li(x)Rb(1-x)PO(3) glasses near the glass transition. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 245106	1.8	5
21	Reduced mobility of di-propylene glycol methylether in its aqueous mixtures by quasielastic neutron scattering. <i>Journal of Chemical Physics</i> , 2010 , 133, 234506	3.9	5
20	Structural properties determining the ionic conductivity of CsI-doped AgPO ₃ glasses. <i>Physical Review B</i> , 2004 , 69,	3.3	5
19	The role of disaccharides for protein-protein interactions in a SANS study. <i>Molecular Physics</i> , 2019 , 117, 3408-3416	1.7	4
18	A Porosimetric Mapping of Breadcrumb Structures by Differential Scanning Calorimetry and Nuclear Magnetic Resonance. <i>Food Biophysics</i> , 2013 , 8, 209-215	3.2	4
17	Mechanistic insight into the structure and dynamics of entangled and hydrated ϕphage DNA. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 4274-84	2.8	4
16	Diffusive solvent dynamics in a polymer gel electrolyte studied by quasielastic neutron scattering. <i>Journal of Chemical Physics</i> , 2005 , 122, 234905	3.9	4
15	Molecular Insights into Dipole Relaxation Processes in Water-Lysine Mixtures. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 6056-6064	3.4	2
14	Response to Comment on Slow Debye-type peak observed in the dielectric response of polyalcohols' [J. Chem. Phys. 134, 037101 (2011)]. <i>Journal of Chemical Physics</i> , 2011 , 134, 037102	3.9	2
13	Component of Cannabis, Cannabidiol, as a Possible Drug against the Cytotoxicity of A(β1-35) and A(β25-35) Peptides: An Investigation by Molecular Dynamics and Well-Tempered Metadynamics Simulations. <i>ACS Chemical Neuroscience</i> , 2021 , 12, 660-674	5.7	2
12	Complex modulus and compliance for airway smooth muscle cells. <i>Physical Review E</i> , 2020 , 101, 032410	2.4	1

11	Reply to Comment on Investigating hydrogen dependence of dynamics of confined water: Monolayer, hydration water and Maxwell-Wagner processes [J. Chem. Phys. 133, 037101 (2010)] <i>Journal of Chemical Physics</i> , 2010 , 133, 037102	3.9	1
10	Frequency dependent conductivity of single alkali and mixed alkali phosphate glasses. <i>Journal of Non-Crystalline Solids</i> , 2004 , 345-346, 514-517	3.9	1
9	Dynamical Accuracy of Water Models on Supercooling. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7469-7475	6.4	1
8	Atomistic molecular dynamics simulations of tubulin heterodimers explain the motion of a microtubule. <i>European Biophysics Journal</i> , 2021 , 50, 927-940	1.9	1
7	Influence of Graphene Oxide on Asphaltene Nanoaggregates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 630, 127614	5.1	1
6	Thermal and Relaxation Properties of Food and Biopolymers with Emphasis on Water 2017 , 1-29		
5	Reply to Comment on Dynamics of water in a molecular sieve by quasielastic neutron scattering [J. Chem. Phys. 125, 077101 (2006)]. <i>Journal of Chemical Physics</i> , 2006 , 125, 077102	3.9	
4	Bond valence analysis of ion transport in reverse Monte Carlo models of mixed alkali glasses. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 756, 1		
3	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	0.6	
2	Influence of ice formation on the dynamic and thermodynamic properties of aqueous solutions. <i>Journal of Molecular Liquids</i> , 2022 , 356, 119039	6	
1	Two statins and cromolyn as possible drugs against the cytotoxicity of A(1-35) and A(25-35) peptides: a comparative study by advanced computer simulation methods.. <i>RSC Advances</i> , 2022 , 12, 13352-13366	3.7	