Peter W Wilson

List of Publications by Year
in descending order

44 papers	1,746 citations	361045 20 h-index	264894 42 g-index
44 all docs	44 docs citations	44 times ranked	1701 citing authors

#	Article	IF	Citations
1	Demonstration of neutron radiation-induced nucleation of supercooled water. Physical Chemistry Chemical Physics, 2021, 23, 13440-13446.	1.3	3
2	The Inhibition of Icing and Frosting on Glass Surfaces by the Coating of Polyethylene Glycol and Polypeptide Mimicking Antifreeze Protein. Biomolecules, 2020, 10, 259.	1.8	7
3	Characterization of Ice-Binding Proteins from Sea-Ice. Methods in Molecular Biology, 2020, 2156, 289-302.	0.4	2
4	Presence of a basic secretory protein in xylem sap and shoots of poplar in winter and its physicochemical activities against winter environmental conditions. Journal of Plant Research, 2019, 132, 655-665.	1.2	1
5	Effects of Winter Flounder Antifreeze Protein on the Growth of Ice Particles in an Ice Slurry Flow in Mini-Channels. Biomolecules, 2019, 9, 70.	1.8	3
6	Suppression of droplets freezing on glass surfaces on which antifreeze polypeptides are adhered by a silane coupling agent. PLoS ONE, 2018, 13, e0204686.	1.1	10
7	Mechanically Robust Transparent Antiâ€Icing Coatings: Roles of Dispersion Status of Titanate Nanotubes. Advanced Materials Interfaces, 2018, 5, 1800773.	1.9	16
8	The Workmanâ€“Reynolds â€œFreezing Potentialâ€• A new look at the inherent physical process. Journal of Molecular Liquids, 2017, 228, 243-246.	2.3	8
9	The effect of stirring on the heterogeneous nucleation of water and of clathrates of tetrahydrofuran/water mixtures. Condensed Matter Physics, 2016, 19, 23602.	0.3	6
10	Ice nucleation behaviour on solâ€“gel coatings with different surface energy and roughness. Physical Chemistry Chemical Physics, 2015, 17, 21492-21500.	1.3	55
11	Development of Solâ€“Gel Icephobic Coatings: Effect of Surface Roughness and Surface Energy. ACS Applied Materials & Interfaces, 2014, 6, 20685-20692.	4.0	146
12	Characterization of Ice Binding Proteins from Sea Ice Algae. Methods in Molecular Biology, 2014, 1166, 241-253.	0.4	2
13	Inhibition of ice nucleation by slippery liquid-infused porous surfaces (SLIPS). Physical Chemistry Chemical Physics, 2013, 15, 581-585.	1.3	284
14	The Spread of Nucleation Temperatures of a Sample of Supercooled Liquid Is Independent of the Average Nucleation Temperature. Journal of Physical Chemistry B, 2012, 116, 13472-13475.	1.2	20
15	Development of a high pressure automated lag time apparatus for experimental studies and statistical analyses of nucleation and growth of gas hydrates. Review of Scientific Instruments, 2011, 82, 065109.	0.6	53
16	Hydrate formation and re-formation in nucleating THF/water mixtures show no evidence to support a â€œmemoryâ€•effect. Chemical Engineering Journal, 2010, 161, 146-150.	6.6	55
17	Type I Antifreeze Proteins Enhance Ice Nucleation above Certain Concentrations. Journal of Biological Chemistry, 2010, 285, 34741-34745.	1.6	51
18	Effect of Ice Growth Rate on the Measured Workmanâ˜Reynolds Freezing Potential between Ice and Dilute NaCl Solutions. Journal of Physical Chemistry B, 2010, 114, 12585-12588.	1.2	16

#	Article	IF	Citations
19	Effect of solutes on the heterogeneous nucleation temperature of supercooled water: an experimental determination. Physical Chemistry Chemical Physics, 2009, 11, 2679.	1.3	33
20	Workmanâ˜'Reynolds Freezing Potential Measurements between Ice and Dilute Salt Solutions for Single Ice Crystal Faces. Journal of Physical Chemistry B, 2008, 112, 11750-11755.	1.2	37
21	Comment on â€œWorkmanâ˜'Reynolds Freezing Potential Measurements between Ice and Dilute Salt Solutions for Single Ice Crystal Facesâ€. Journal of Physical Chemistry B, 2008, 112, 15260-15260.	1.2	5
22	Heterogeneous nucleation of clathrates from supercooled tetrahydrofuran (THF)/water mixtures, and the effect of an added catalyst. Chemical Engineering Science, 2005, 60, 2937-2941.	1.9	67
23	Nucleation from a Supercooled Binary Mixture Studied by Crossed Polarizersâ€. Journal of Physical Chemistry A, 2005, 109, 11354-11357.	1.1	3
24	Antifreeze glycoproteins from the antarctic fish Dissostichus mawsoni studied by differential scanning calorimetry (DSC) in combination with nanolitre osmometry. Cryo-Letters, 2005, 26, 73-84.	0.1	13
25	Ice nucleation in nature: supercooling point (SCP) measurements and the role of heterogeneous nucleation. Cryobiology, 2003, 46, 88-98.	0.3	156
26	Heterogeneous nucleation of supercooled water, and the effect of an added catalyst. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 9631-9634.	3.3	92
27	Hexagonal shaped ice spicules in frozen antifreeze protein solutions. Cryobiology, 2002, 44, 240-250.	0.3	16
28	Liquid-to-crystal nucleation: Automated lag-time apparatus to study supercooled liquids. Journal of Chemical Physics, 2001, 115, 7599-7608.	1.2	52
29	Nucleation in the presence of fish and insect ice-growth inhibition (â€œantifreezeâ€) molecules. AIP Conference Proceedings, 2000, , .	0.3	0
30	Ice Premelting during Differential Scanning Calorimetry. Biophysical Journal, 1999, 77, 2850-2855.	0.2	31
31	Recrystallization in a Freezing Tolerant Antarctic Nematode,Panagrolaimus davidi,and an Alpine Weta,Hemideina maori(Orthoptera; Stenopelmatidae). Cryobiology, 1996, 33, 607-613.	0.3	47
32	Hemolymph ice nucleating proteins from the New Zealand alpine weta Hemideina maori (Orthoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 T 1995, 112, 535-542.	0.7	14
33	Stabilization of supercooled fluids by thermal hysteresis proteins. Biophysical Journal, 1995, 68, 2098-2107.	0.2	57
34	Extrinsic Premelting at the Ice-Glass Interface. The Journal of Physical Chemistry, 1994, 98, 8096-8100.	2.9	46
35	COMPARISON OF THE FREEZE/THAW CHARACTERISTICS OF ANTARCTIC COD (DISSOSTICHUS MAWSONI) AND BLACK COD (PARANOTOTHENIA AUGUSTATA) ? POSSIBLE EFFECTS OF ANTIFREEZE GLYCOPROTEINS. Journal of Muscle Foods, 1994, 5, 233-244.	0.5	7
36	A Model for Thermal Hysteresis Utilizing the Anisotropic Interfacial Energy of Ice Crystals. Cryobiology, 1994, 31, 406-412.	0.3	19

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37	Antifreeze glycopeptide adsorption on single crystal ice surfaces using ellipsometry. Biophysical Journal, 1993, 64, 1878-1884.	0.2	46
38	Thickness and anisotropy of the ice-water interface. The Journal of Physical Chemistry, 1993, 97, 11053-11055.	2.9	46
39	Inhibition of growth of nonbasal planes in ice by fish antifreezes.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 881-885.	3.3	162
40	Determining optical properties of thin films by modified attenuated total reflection with a charge coupled device. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1988, 6, 2386-2389.	0.9	14
41	Microstructural-induced anisotropy in thin films for optical applications. Critical Reviews in Solid State and Materials Sciences, 1988, 15, 27-61.	6.8	25
42	Scatter from fluid patches in optical thin-film coatings. Applied Optics, 1986, 25, 2688.	2.1	3
43	Anisotropic optical scatter from moisture patches in thin films deposited obliquely. Journal of Applied Physics, 1986, 59, 1453-1455.	1.1	10
44	Reflection anisotropy in evaporated aluminum: Consequences for telescope mirror coatings. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1986, 4, 1875-1878.	0.9	7