

# Peter W Wilson

## List of Publications by Year in descending order

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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	Inhibition of ice nucleation by slippery liquid-infused porous surfaces (SLIPS). <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 581-585.	1.3	284
2	Inhibition of growth of nonbasal planes in ice by fish antifreezes.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 881-885.	3.3	162
3	Ice nucleation in nature: supercooling point (SCP) measurements and the role of heterogeneous nucleation. <i>Cryobiology</i> , 2003, 46, 88-98.	0.3	156
4	Development of Solâ€“Gel Icephobic Coatings: Effect of Surface Roughness and Surface Energy. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 20685-20692.	4.0	146
5	Heterogeneous nucleation of supercooled water, and the effect of an added catalyst. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 9631-9634.	3.3	92
6	Heterogeneous nucleation of clathrates from supercooled tetrahydrofuran (THF)/water mixtures, and the effect of an added catalyst. <i>Chemical Engineering Science</i> , 2005, 60, 2937-2941.	1.9	67
7	Stabilization of supercooled fluids by thermal hysteresis proteins. <i>Biophysical Journal</i> , 1995, 68, 2098-2107.	0.2	57
8	Hydrate formation and re-formation in nucleating THF/water mixtures show no evidence to support a â€œmemoryâ€œ-effect. <i>Chemical Engineering Journal</i> , 2010, 161, 146-150.	6.6	55
9	Ice nucleation behaviour on solâ€“gel coatings with different surface energy and roughness. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21492-21500.	1.3	55
10	Development of a high pressure automated lag time apparatus for experimental studies and statistical analyses of nucleation and growth of gas hydrates. <i>Review of Scientific Instruments</i> , 2011, 82, 065109.	0.6	53
11	Liquid-to-crystal nucleation: Automated lag-time apparatus to study supercooled liquids. <i>Journal of Chemical Physics</i> , 2001, 115, 7599-7608.	1.2	52
12	Type I Antifreeze Proteins Enhance Ice Nucleation above Certain Concentrations. <i>Journal of Biological Chemistry</i> , 2010, 285, 34741-34745.	1.6	51
13	Recrystallization in a Freezing Tolerant Antarctic Nematode, <i>Panagrolaimus davidi</i> , and an Alpine Weta, <i>Hemideina maori</i> (Orthoptera; Stenopelmaticidae). <i>Cryobiology</i> , 1996, 33, 607-613.	0.3	47
14	Antifreeze glycopeptide adsorption on single crystal ice surfaces using ellipsometry. <i>Biophysical Journal</i> , 1993, 64, 1878-1884.	0.2	46
15	Thickness and anisotropy of the ice-water interface. <i>The Journal of Physical Chemistry</i> , 1993, 97, 11053-11055.	2.9	46
16	Extrinsic Premelting at the Ice-Glass Interface. <i>The Journal of Physical Chemistry</i> , 1994, 98, 8096-8100.	2.9	46
17	Workmanâ€™s Reynolds Freezing Potential Measurements between Ice and Dilute Salt Solutions for Single Ice Crystal Faces. <i>Journal of Physical Chemistry B</i> , 2008, 112, 11750-11755.	1.2	37
18	Effect of solutes on the heterogeneous nucleation temperature of supercooled water: an experimental determination. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 2679.	1.3	33

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19	Ice Premelting during Differential Scanning Calorimetry. <i>Biophysical Journal</i> , 1999, 77, 2850-2855.	0.2	31
20	Microstructural-induced anisotropy in thin films for optical applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 1988, 15, 27-61.	6.8	25
21	The Spread of Nucleation Temperatures of a Sample of Supercooled Liquid Is Independent of the Average Nucleation Temperature. <i>Journal of Physical Chemistry B</i> , 2012, 116, 13472-13475.	1.2	20
22	A Model for Thermal Hysteresis Utilizing the Anisotropic Interfacial Energy of Ice Crystals. <i>Cryobiology</i> , 1994, 31, 406-412.	0.3	19
23	Hexagonal shaped ice spicules in frozen antifreeze protein solutions. <i>Cryobiology</i> , 2002, 44, 240-250.	0.3	16
24	Effect of Ice Growth Rate on the Measured Workman <sup>~</sup> Reynolds Freezing Potential between Ice and Dilute NaCl Solutions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12585-12588.	1.2	16
25	Mechanically Robust Transparent Anti-icing Coatings: Roles of Dispersion Status of Titanate Nanotubes. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800773.	1.9	16
26	Determining optical properties of thin films by modified attenuated total reflection with a charge coupled device. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1988, 6, 2386-2389.	0.9	14
27	Hemolymph ice nucleating proteins from the New Zealand alpine weta <i>Hemideina maori</i> (Orthoptera: Tj ETQq1 1 0.784314 rgBT /Over 1995, 112, 535-542.	0.7	14
28	Antifreeze glycoproteins from the antarctic fish <i>Dissostichus mawsoni</i> studied by differential scanning calorimetry (DSC) in combination with nanolitre osmometry. <i>Cryo-Letters</i> , 2005, 26, 73-84.	0.1	13
29	Anisotropic optical scatter from moisture patches in thin films deposited obliquely. <i>Journal of Applied Physics</i> , 1986, 59, 1453-1455.	1.1	10
30	Suppression of droplets freezing on glass surfaces on which antifreeze polypeptides are adhered by a silane coupling agent. <i>PLoS ONE</i> , 2018, 13, e0204686.	1.1	10
31	The Workman <sup>~</sup> Reynolds <sup>~</sup> Freezing Potential <sup>~</sup> A new look at the inherent physical process. <i>Journal of Molecular Liquids</i> , 2017, 228, 243-246.	2.3	8
32	Reflection anisotropy in evaporated aluminum: Consequences for telescope mirror coatings. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1986, 4, 1875-1878.	0.9	7
33	COMPARISON OF THE FREEZE/THAW CHARACTERISTICS OF ANTARCTIC COD ( <i>DISSOSTICHUS MAWSONI</i> ) AND BLACK COD ( <i>PARANOTOTHENIA AUGUSTATA</i> ) ? POSSIBLE EFFECTS OF ANTIFREEZE GLYCOPROTEINS. <i>Journal of Muscle Foods</i> , 1994, 5, 233-244.	0.5	7
34	The Inhibition of Icing and Frosting on Glass Surfaces by the Coating of Polyethylene Glycol and Polypeptide Mimicking Antifreeze Protein. <i>Biomolecules</i> , 2020, 10, 259.	1.8	7
35	The effect of stirring on the heterogeneous nucleation of water and of clathrates of tetrahydrofuran/water mixtures. <i>Condensed Matter Physics</i> , 2016, 19, 23602.	0.3	6
36	Comment on <sup>~</sup> Workman <sup>~</sup> Reynolds Freezing Potential Measurements between Ice and Dilute Salt Solutions for Single Ice Crystal Faces <sup>~</sup> , <i>Journal of Physical Chemistry B</i> , 2008, 112, 15260-15260.	1.2	5

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37	Scatter from fluid patches in optical thin-film coatings. <i>Applied Optics</i> , 1986, 25, 2688.	2.1	3
38	Nucleation from a Supercooled Binary Mixture Studied by Crossed Polarizers. <i>Journal of Physical Chemistry A</i> , 2005, 109, 11354-11357.	1.1	3
39	Effects of Winter Flounder Antifreeze Protein on the Growth of Ice Particles in an Ice Slurry Flow in Mini-Channels. <i>Biomolecules</i> , 2019, 9, 70.	1.8	3
40	Demonstration of neutron radiation-induced nucleation of supercooled water. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13440-13446.	1.3	3
41	Characterization of Ice Binding Proteins from Sea Ice Algae. <i>Methods in Molecular Biology</i> , 2014, 1166, 241-253.	0.4	2
42	Characterization of Ice-Binding Proteins from Sea-Ice. <i>Methods in Molecular Biology</i> , 2020, 2156, 289-302.	0.4	2
43	Presence of a basic secretory protein in xylem sap and shoots of poplar in winter and its physicochemical activities against winter environmental conditions. <i>Journal of Plant Research</i> , 2019, 132, 655-665.	1.2	1
44	Nucleation in the presence of fish and insect ice-growth inhibition (antifreeze) molecules. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	0