

James A Raymond

List of Publications by Citations

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29
papers

1,314
citations

17
h-index

31
g-index

31
ext. papers

1,522
ext. citations

5
avg, IF

4.83
L-index

#	Paper	IF	Citations
29	Evolutionary genomics of the cold-adapted diatom <i>Fragilariopsis cylindrus</i> . <i>Nature</i> , 2017 , 541, 536-540	50.4	226
28	ICE-BINDING PROTEINS FROM SEA ICE DIATOMS (BACILLARIOPHYCEAE)1. <i>Journal of Phycology</i> , 2006 , 42, 410-416	3	157
27	An ice-binding protein from an Antarctic sea ice bacterium. <i>FEMS Microbiology Ecology</i> , 2007 , 61, 214-214	4.3	125
26	NOVEL ICE-BINDING PROTEINS FROM A PSYCHROPHILIC ANTARCTIC ALGA (CHLAMYDOMONADACEAE, CHLOROPHYCEAE)(1). <i>Journal of Phycology</i> , 2009 , 45, 130-6	3	89
25	A bacterial ice-binding protein from the Vostok ice core. <i>Extremophiles</i> , 2008 , 12, 713-7	3	89
24	Possible role of horizontal gene transfer in the colonization of sea ice by algae. <i>PLoS ONE</i> , 2012 , 7, e35968	3.7	79
23	Semipurification and ice recrystallization inhibition activity of ice-active substances associated with Antarctic photosynthetic organisms. <i>Cryobiology</i> , 2001 , 43, 63-70	2.7	67
22	Ice binding, recrystallization inhibition, and cryoprotective properties of ice-active substances associated with Antarctic sea ice diatoms. <i>Cryobiology</i> , 2003 , 46, 174-81	2.7	66
21	Glycerol is a colligative antifreeze in some northern fishes. <i>The Journal of Experimental Zoology</i> , 1992 , 262, 347-352		63
20	Distribution and partial characterization of ice-active molecules associated with sea-ice diatoms. <i>Polar Biology</i> , 2000 , 23, 721-729	2	56
19	The ice-binding proteins of a snow alga, <i>Chloromonas brevispina</i> : probable acquisition by horizontal gene transfer. <i>Extremophiles</i> , 2014 , 18, 987-94	3	54
18	Ice-binding proteins from enoki and shiitake mushrooms. <i>Cryobiology</i> , 2009 , 58, 151-6	2.7	37
17	Algal ice-binding proteins change the structure of sea ice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E198	11.5	34
16	Glycerol and water balance in a near-isosmotic teleost, winter-acclimatized rainbow smelt. <i>Canadian Journal of Zoology</i> , 1993 , 71, 1849-1854	1.5	30
15	Ice-active substances associated with Antarctic freshwater and terrestrial photosynthetic organisms. <i>Antarctic Science</i> , 2000 , 12, 418-424	1.7	28
14	Dependence on epiphytic bacteria for freezing protection in an Antarctic moss, <i>Bryum argenteum</i> . <i>Environmental Microbiology Reports</i> , 2016 , 8, 14-9	3.7	23
13	Separate origins of ice-binding proteins in antarctic chlamydomonas species. <i>PLoS ONE</i> , 2013 , 8, e59186	3.7	22

12	Reduction of freeze-thaw-induced hemolysis of red blood cells by an algal ice-binding protein. <i>Cryo-Letters</i> , 2004 , 25, 307-10	0.3	15
11	Multiple ice-binding proteins of probable prokaryotic origin in an Antarctic lake alga, <i>Chlamydomonas</i> sp. ICE-MDV (Chlorophyceae). <i>Journal of Phycology</i> , 2017 , 53, 848-854	3	13
10	Ice-Binding Proteins in a Chrysophycean Snow Alga: Acquisition of an Essential Gene by Horizontal Gene Transfer. <i>Frontiers in Microbiology</i> , 2019 , 10, 2697	5.7	8
9	Cryoprotective property of diatom ice-active substance. <i>Cryobiology</i> , 2003 , 46, 203-4	2.7	7
8	Concentrations and properties of ice nucleating substances in exudates from Antarctic sea-ice diatoms. <i>Environmental Sciences: Processes and Impacts</i> , 2021 , 23, 323-334	4.3	7
7	Two potential fish glycerol-3-phosphate phosphatases. <i>Fish Physiology and Biochemistry</i> , 2015 , 41, 811-82.7		5
6	Snow Algae Preferentially Grow on Fe-containing Minerals and Contribute to the Formation of Fe Phases. <i>Geomicrobiology Journal</i> , 2020 , 37, 572-581	2.5	4
5	Investigating the Growth of Algae Under Low Atmospheric Pressures for Potential Food and Oxygen Production on Mars. <i>Frontiers in Microbiology</i> , 2021 , 12, 733244	5.7	3
4	Glycerol Is an Osmoprotectant in Two Antarctic Species From an Ice-Covered Saline Lake and Is Synthesized by an Unusual Bidomain Enzyme. <i>Frontiers in Plant Science</i> , 2020 , 11, 1259	6.2	3
3	Ice-Binding Proteins Associated with an Antarctic Cyanobacterium, sp. HG1. <i>Applied and Environmental Microbiology</i> , 2021 , 87,	4.8	3
2	An ice-binding protein from an Arctic grass,. <i>F1000Research</i> , 2020 , 9, 648	3.6	
1	An ice-binding protein from an Arctic population of American dunegrass, <i>Leymus mollis</i> . <i>F1000Research</i> , 2020 , 9, 648	3.6	