

James A Raymond

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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 | 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 |
| 28 | Ice-Binding Proteins Associated with an Antarctic Cyanobacterium, sp. HG1. <i>Applied and Environmental Microbiology</i> , 2021 , 87, | 4.8 | 3 |
| 27 | 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 |
| 26 | 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 |
| 25 | An ice-binding protein from an Arctic grass,. <i>F1000Research</i> , 2020 , 9, 648 | 3.6 | |
| 24 | An ice-binding protein from an Arctic population of American dunegrass, <i>Leymus mollis</i> . <i>F1000Research</i> , 2020 , 9, 648 | 3.6 | |
| 23 | 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 |
| 22 | 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 |
| 21 | Evolutionary genomics of the cold-adapted diatom <i>Fragilariopsis cylindrus</i> . <i>Nature</i> , 2017 , 541, 536-540 | 50.4 | 226 |
| 20 | 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 |
| 19 | 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 |
| 18 | Two potential fish glycerol-3-phosphate phosphatases. <i>Fish Physiology and Biochemistry</i> , 2015 , 41, 811-82.7 | | 5 |
| 17 | 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 |
| 16 | Separate origins of ice-binding proteins in antarctic chlamydomonas species. <i>PLoS ONE</i> , 2013 , 8, e59186 | 3.7 | 22 |
| 15 | Possible role of horizontal gene transfer in the colonization of sea ice by algae. <i>PLoS ONE</i> , 2012 , 7, e35968 | | 79 |
| 14 | 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 |
| 13 | NOVEL ICE-BINDING PROTEINS FROM A PSYCHROPHILIC ANTARCTIC ALGA (CHLAMYDOMONADACEAE, CHLOROPHYCEAE)(1). <i>Journal of Phycology</i> , 2009 , 45, 130-6 | 3 | 89 |

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| 12 | Ice-binding proteins from enoki and shiitake mushrooms. <i>Cryobiology</i> , 2009 , 58, 151-6 | 2.7 | 37 |
| 11 | A bacterial ice-binding protein from the Vostok ice core. <i>Extremophiles</i> , 2008 , 12, 713-7 | 3 | 89 |
| 10 | An ice-binding protein from an Antarctic sea ice bacterium. <i>FEMS Microbiology Ecology</i> , 2007 , 61, 214-214.3 | 4.3 | 125 |
| 9 | ICE-BINDING PROTEINS FROM SEA ICE DIATOMS (BACILLARIOPHYCEAE)1. <i>Journal of Phycology</i> , 2006 , 42, 410-416 | 3 | 157 |
| 8 | 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 |
| 7 | 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 |
| 6 | Cryoprotective property of diatom ice-active substance. <i>Cryobiology</i> , 2003 , 46, 203-4 | 2.7 | 7 |
| 5 | 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 |
| 4 | Distribution and partial characterization of ice-active molecules associated with sea-ice diatoms. <i>Polar Biology</i> , 2000 , 23, 721-729 | 2 | 56 |
| 3 | Ice-active substances associated with Antarctic freshwater and terrestrial photosynthetic organisms. <i>Antarctic Science</i> , 2000 , 12, 418-424 | 1.7 | 28 |
| 2 | 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 |
| 1 | Glycerol is a colligative antifreeze in some northern fishes. <i>The Journal of Experimental Zoology</i> , 1992 , 262, 347-352 | | 63 |