

Christopher Stubbs

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

710
citations

687363

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h-index

1058476

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all docs

14
docs citations

14
times ranked

603
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer mimics of biomacromolecular antifreezes. <i>Nature Communications</i> , 2017, 8, 1546.	12.8	178
2	Mimicking the Ice Recrystallization Activity of Biological Antifreezes. When is a New Polymer <i>Active</i> ? <i>Macromolecular Bioscience</i> , 2019, 19, e1900082.	4.1	95
3	Polyampholytes as Emerging Macromolecular Cryoprotectants. <i>Biomacromolecules</i> , 2020, 21, 7-17.	5.4	68
4	The atomistic details of the ice recrystallisation inhibition activity of PVA. <i>Nature Communications</i> , 2021, 12, 1323.	12.8	62
5	Regioregular Alternating Polyampholytes Have Enhanced Biomimetic Ice Recrystallization Activity Compared to Random Copolymers and the Role of Side Chain versus Main Chain Hydrophobicity. <i>Biomacromolecules</i> , 2017, 18, 295-302.	5.4	57
6	Synthesis of Degradable Poly(vinyl alcohol) by Radical Ring-Opening Copolymerization and Ice Recrystallization Inhibition Activity. <i>ACS Macro Letters</i> , 2017, 6, 1404-1408.	4.8	45
7	Synthetically Scalable Poly(ampholyte) Which Dramatically Enhances Cellular Cryopreservation. <i>Biomacromolecules</i> , 2019, 20, 3104-3114.	5.4	40
8	High-Throughput Tertiary Amine Deoxygenated Photopolymerizations for Synthesizing Polymer Libraries. <i>Macromolecules</i> , 2019, 52, 7603-7612.	4.8	31
9	Combinatorial Biomaterials Discovery Strategy to Identify New Macromolecular Cryoprotectants. <i>ACS Macro Letters</i> , 2020, 9, 290-294.	4.8	31
10	Multivalent Presentation of Ice Recrystallization Inhibiting Polymers on Nanoparticles Retains Activity. <i>Langmuir</i> , 2019, 35, 7347-7353.	3.5	30
11	Ultralow Dispersity Poly(vinyl alcohol) Reveals Significant Dispersity Effects on Ice Recrystallization Inhibition Activity. <i>ACS Macro Letters</i> , 2017, 6, 1001-1004.	4.8	23
12	PCR-RAFT: rapid high throughput oxygen tolerant RAFT polymer synthesis in a biology laboratory. <i>Polymer Chemistry</i> , 2020, 11, 1230-1236.	3.9	20
13	Enhancement of Macromolecular Ice Recrystallization Inhibition Activity by Exploiting Depletion Forces. <i>ACS Macro Letters</i> , 2019, 8, 1063-1067.	4.8	19
14	Photo-polymerisation and study of the ice recrystallisation inhibition of hydrophobically modified poly(vinyl pyrrolidone) co-polymers. <i>European Polymer Journal</i> , 2019, 110, 330-336.	5.4	11