

Yi Zhi Zhuo

List of Publications by Year in descending order

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34
papers

1,731
citations

218381

26
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395343

33
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all docs

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docs citations

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times ranked

1167
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of hydroxide conductivity by grafting flexible pendant imidazolium groups into poly(arylene ether sulfone) as anion exchange membranes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 18105-18114.	5.2	116
2	Phenolphthalein-based Poly(arylene ether sulfone nitrile)s Multiblock Copolymers As Anion Exchange Membranes for Alkaline Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 8284-8292.	4.0	107
3	Enhancing the Mechanical Durability of Icephobic Surfaces by Introducing Autonomous Self-Healing Function. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 11972-11978.	4.0	99
4	Simultaneously Toughening and Stiffening Elastomers with Octuple Hydrogen Bonding. <i>Advanced Materials</i> , 2021, 33, e2008523.	11.1	92
5	Design and preparation of sandwich-like polydimethylsiloxane (PDMS) sponges with super-low ice adhesion. <i>Soft Matter</i> , 2018, 14, 4846-4851.	1.2	86
6	Crosslinked side-chain-type anion exchange membranes with enhanced conductivity and dimensional stability. <i>Journal of Membrane Science</i> , 2017, 539, 24-33.	4.1	85
7	Polysiloxane as icephobic materials “The past, present and the future. <i>Chemical Engineering Journal</i> , 2021, 405, 127088.	6.6	83
8	Side-chain-type anion exchange membranes bearing pendent imidazolium-functionalized poly(phenylene) Tj ETQq0,0,0 rgBT /Overlock 1	4.1	73
9	Interpenetrating anion exchange membranes using poly(1-vinylimidazole) as bifunctional crosslinker for fuel cells. <i>Journal of Membrane Science</i> , 2016, 518, 295-304.	4.1	72
10	One-Step Fabrication of Bioinspired Lubricant-Regenerable Icephobic Slippery Liquid-Infused Porous Surfaces. <i>ACS Omega</i> , 2018, 3, 10139-10144.	1.6	68
11	Self-Deicing Electrolyte Hydrogel Surfaces with Pa-level Ice Adhesion and Durable Antifreezing/Antifrost Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 35572-35578.	4.0	65
12	Benzylmethyl-containing poly(arylene ether nitrile) as anion exchange membranes for alkaline fuel cells. <i>Journal of Membrane Science</i> , 2015, 481, 9-18.	4.1	60
13	Highly ionic-conductive crosslinked cardo poly(arylene ether sulfone)s as anion exchange membranes for alkaline fuel cells. <i>Journal of Membrane Science</i> , 2015, 491, 138-148.	4.1	58
14	Liquid layer generators for excellent icephobicity at extremely low temperatures. <i>Materials Horizons</i> , 2019, 6, 2063-2072.	6.4	53
15	Anti-icing Ionogel Surfaces: Inhibiting Ice Nucleation, Growth, and Adhesion. , 2020, 2, 616-623.		52
16	Dynamic Anti-icing Surfaces (DAIS). <i>Advanced Science</i> , 2021, 8, e2101163.	5.6	49
17	Gels as emerging anti-icing materials: a mini review. <i>Materials Horizons</i> , 2021, 8, 3266-3280.	6.4	49
18	An ultra-durable icephobic coating by a molecular pulley. <i>Soft Matter</i> , 2019, 15, 3607-3611.	1.2	47

#	ARTICLE	IF	CITATIONS
19	Interlaboratory Study of Ice Adhesion Using Different Techniques. <i>Coatings</i> , 2019, 9, 678.	1.2	44
20	Anion exchange membranes based on carbazole-containing polyolefin for direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2016, 497, 99-107.	4.1	41
21	Ultrafast self-healing and highly transparent coating with mechanically durable icephobicity. <i>Applied Materials Today</i> , 2020, 19, 100542.	2.3	40
22	Side-chain-type phenolphthalein-based poly(arylene ether sulfone nitrile)s anion exchange membrane for fuel cells. <i>Journal of Membrane Science</i> , 2016, 502, 94-105.	4.1	38
23	Understanding the role of hollow sub-surface structures in reducing ice adhesion strength. <i>Soft Matter</i> , 2019, 15, 2905-2910.	1.2	35
24	Design and preparation of icephobic PDMS-based coatings by introducing an aqueous lubricating layer and macro-crack initiators at the ice-substrate interface. <i>Progress in Organic Coatings</i> , 2020, 147, 105737.	1.9	35
25	Design of Icephobic Surfaces by Lowering Ice Adhesion Strength: A Mini Review. <i>Coatings</i> , 2021, 11, 1343.	1.2	34
26	Durable Low Ice Adhesion Foams Modulated by Submicrometer Pores. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 17776-17783.	1.8	31
27	Enabling phase transition of infused lubricant in porous structure for exceptional oil/water separation. <i>Journal of Hazardous Materials</i> , 2020, 390, 122176.	6.5	30
28	Epidermal Gland Inspired Self-Repairing Slippery Lubricant-Infused Porous Coatings with Durable Low Ice Adhesion. <i>Coatings</i> , 2019, 9, 602.	1.2	26
29	Comb-shaped phenolphthalein-based poly(ether sulfone)s as anion exchange membranes for alkaline fuel cells. <i>RSC Advances</i> , 2016, 6, 17269-17279.	1.7	24
30	Enhanced ionic conductivity of anion exchange membranes by grafting flexible ionic strings on multiblock copolymers. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 1998-2008.	3.8	15
31	Carbon quantum dots (CQDs) and polyethyleneimine (PEI) layer-by-layer (LBL) self-assembly PEK-C-based membranes with high forward osmosis performance. <i>Chemical Engineering Research and Design</i> , 2021, 170, 423-433.	2.7	11
32	Adamantane-based block poly(arylene ether sulfone)s as anion exchange membranes. <i>Polymer</i> , 2022, 255, 125155.	1.8	8
33	Influence of phenolphthalein groups on the structure and properties of poly(arylene ether sulfone) Tj ETQq1 1 0.784314 rgBT ₄ /Overlook	1.7	1
34	Towards the "sustainable" operation at -30°C without the expense of energy for heating on-face electronics: Intelligent heat conservation and waste heat utilization. <i>Energy Reports</i> , 2022, 8, 6753-6763.	2.5	1