

Kaihuan Zhang

List of Publications by Year in descending order

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papers

659
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566801

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docs citations

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times ranked

1082
citing authors

#	ARTICLE	IF	CITATIONS
1	Imparting ultralow lubricity to double-network hydrogels by surface-initiated controlled radical polymerization under ambient conditions. <i>Biotribology</i> , 2021, 26, 100161.	0.9	11
2	Oxygen inhibition of free-radical polymerization is the dominant mechanism behind the "mold effect" on hydrogels. <i>Soft Matter</i> , 2021, 17, 6394-6403.	1.2	34
3	Importance of Hydration and Surface Structure for Friction of Acrylamide Hydrogels. <i>Tribology Letters</i> , 2020, 68, 1.	1.2	28
4	Versatile Surface Modification of Hydrogels by Surface-Initiated, Cu ⁰ -Mediated Controlled Radical Polymerization. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 6761-6767.	4.0	38
5	Linking Friction and Surface Properties of Hydrogels Molded Against Materials of Different Surface Energies. <i>Langmuir</i> , 2019, 35, 15805-15812.	1.6	49
6	Creating an Interface: Rendering a Double-Network Hydrogel Lubricious via Spontaneous Delamination. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 25427-25435.	4.0	25
7	Metal nanoparticle loading of gel-brush grafted polymer fibers in membranes for catalysis. <i>Journal of Materials Chemistry A</i> , 2018, 6, 7741-7748.	5.2	26
8	Thermoresponsive Membranes from Electrospun Mats with Switchable Wettability for Efficient Oil/Water Separations. <i>Macromolecules</i> , 2018, 51, 8435-8442.	2.2	43
9	Comparison of three types of redox active polymer for two photon stereolithography. <i>Polymers for Advanced Technologies</i> , 2017, 28, 1194-1197.	1.6	2
10	Continuous fabrication of multi-stimuli responsive graphene oxide composite hydrogel fibres by microfluidics. <i>RSC Advances</i> , 2017, 7, 19243-19249.	1.7	26
11	Thermoresponsive Semi-IPN Hydrogel Microfibers from Continuous Fluidic Processing with High Elasticity and Fast Actuation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 901-908.	4.0	99
12	Synchrotron SAXS and Impedance Spectroscopy Unveil Nanostructure Variations in Redox-Responsive Porous Membranes from Poly(ferrocenylsilane) Poly(ionic liquid)s. <i>Macromolecules</i> , 2017, 50, 296-302.	2.2	19
13	Smart Windows: Switching Light Transmittance by Responsive Organometallic Poly(ionic liquid)s: Control by Cross Talk of Thermal and Redox Stimuli (<i>Adv. Funct. Mater.</i> 41/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	0
14	Switching Light Transmittance by Responsive Organometallic Poly(ionic liquid)s: Control by Cross Talk of Thermal and Redox Stimuli. <i>Advanced Functional Materials</i> , 2017, 27, 1702784.	7.8	34
15	Hydrogels with a Memory: Dual-Responsive, Organometallic Poly(ionic liquid)s with Hysteretic Volume-Phase Transition. <i>Journal of the American Chemical Society</i> , 2017, 139, 10029-10035.	6.6	45
16	Macromol. Rapid Commun. 23/2016. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1980-1980.	2.0	0
17	Electrochemical atomic force microscopy reveals potential stimulated height changes of redox responsive Cu-azurin on gold. <i>European Polymer Journal</i> , 2016, 83, 529-537.	2.6	10
18	Highly Swellable, Dual-Responsive Hydrogels Based on PNIPAM and Redox Active Poly(ferrocenylsilane) Poly(ionic liquid)s: Synthesis, Structure, and Properties. <i>Macromolecular Rapid Communications</i> , 2016, 37, 1939-1944.	2.0	43

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19	Organometallic polymers for electrode decoration in sensing applications. RSC Advances, 2015, 5, 106355-106376.	1.7	22
20	Breathing Pores on Command: Redox-Responsive Spongy Membranes from Poly(ferrocenylsilane)s. Angewandte Chemie - International Edition, 2014, 53, 13789-13793.	7.2	90
21	Color-encoded microcarriers based on nano-silicon dioxide film for multiplexed immunoassays. Analyst, The, 2012, 137, 3760.	1.7	6