

Wanhao Cai

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

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933447

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all docs

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docs citations

18
times ranked

289
citing authors

#	ARTICLE	IF	CITATIONS
1	Revealing the formation mechanism of insoluble polydopamine by using a simplified model system. <i>Polymer Chemistry</i> , 2017, 8, 860-864.	3.9	71
2	Force-Induced Transition of π - π Stacking in a Single Polystyrene Chain. <i>Journal of the American Chemical Society</i> , 2019, 141, 9500-9503.	13.7	63
3	Detecting van der Waals forces between a single polymer repeating unit and a solid surface in high vacuum. <i>Nano Research</i> , 2019, 12, 57-61.	10.4	37
4	Single-Chain Polymer Models Incorporating the Effects of Side Groups: An Approach to General Polymer Models. <i>Macromolecules</i> , 2019, 52, 7324-7330.	4.8	20
5	Single-Molecule Studies Reveal That Water Is a Special Solvent for Amylose and Natural Cellulose. <i>Macromolecules</i> , 2019, 52, 5006-5013.	4.8	18
6	Intramolecular hydrogen bonds in a single macromolecule: Strength in high vacuum versus liquid environments. <i>Nano Research</i> , 2022, 15, 1517-1523.	10.4	16
7	Understanding the Extraordinary Flexibility of Polydimethylsiloxane through Single-Molecule Mechanics. , 2022, 4, 329-335.		15
8	Preparation of phospholipid-based polycarbonate urethanes for potential applications of blood-contacting implants. <i>International Journal of Energy Production and Management</i> , 2020, 7, 491-504.	3.7	14
9	Multivalent non-covalent interactions lead to strongest polymer adhesion. <i>Nanoscale</i> , 2022, 14, 3768-3776.	5.6	12
10	Real time quantification of the chemical cross-link density of a hydrogel by in situ UV-vis spectroscopy. <i>Polymer Chemistry</i> , 2015, 6, 4252-4257.	3.9	11
11	Angle-dependent strength of a single chemical bond by stereographic force spectroscopy. <i>Chemical Science</i> , 2022, 13, 5734-5740.	7.4	11
12	Single-chain mechanics of cis-1,4-polyisoprene and polysulfide. <i>Polymer</i> , 2022, 240, 124473.	3.8	10
13	Phospholipid-based multifunctional coating via layer-by-layer self-assembly for biomedical applications. <i>Materials Science and Engineering C</i> , 2020, 116, 111237.	7.3	8
14	Selenium-functionalized polycarbonate-polyurethane for sustained in situ generation of therapeutic gas for blood-contacting materials. <i>Smart Materials in Medicine</i> , 2022, 3, 361-373.	6.7	5
15	Single-chain Elasticity of Poly(ethylene glycol) in High Vacuum. <i>Acta Chimica Sinica</i> , 2019, 77, 189.	1.4	4
16	A facile and environment-friendly method for fabrication of polymer brush. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017, 35, 857-865.	3.8	3
17	Sulfur-Mediated Polycarbonate Polyurethane for Potential Application of Blood-Contacting Materials. <i>Frontiers in Bioengineering and Biotechnology</i> , 2022, 10, 874419.	4.1	2
18	Tellurium-containing polymer coating with glutathione peroxidase mimics capability for surface modification of intravascular implants. <i>Materials and Design</i> , 2022, 217, 110622.	7.0	2