

Zhen Cao

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

696
citations

516710

16
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

942
citing authors

#	ARTICLE	IF	CITATIONS
1	Combs and Bottlebrushes in a Melt. <i>Macromolecules</i> , 2017, 50, 3430-3437.	4.8	117
2	Computer Simulations of Bottle Brushes: From Melts to Soft Networks. <i>Macromolecules</i> , 2015, 48, 5006-5015.	4.8	80
3	Adhesion and Wetting of Nanoparticles on Soft Surfaces. <i>Macromolecules</i> , 2014, 47, 3203-3209.	4.8	73
4	Polymeric Droplets on Soft Surfaces: From Neumann's Triangle to Young's Law. <i>Macromolecules</i> , 2015, 48, 443-451.	4.8	46
5	Independent Control of Elastomer Properties through Stereocontrolled Synthesis. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 13076-13080.	13.8	43
6	Elastocapillarity: Adhesion and Wetting in Soft Polymeric Systems. <i>Macromolecules</i> , 2014, 47, 6515-6521.	4.8	36
7	Dynamics of Bottlebrush Networks. <i>Macromolecules</i> , 2016, 49, 8009-8017.	4.8	36
8	Dictating Nanoparticle Assembly via Systems-Level Control of Molecular Multivalency. <i>Journal of the American Chemical Society</i> , 2019, 141, 14624-14632.	13.7	34
9	Nanoparticles as Adhesives for Soft Polymeric Materials. <i>Macromolecules</i> , 2016, 49, 3586-3592.	4.8	28
10	Boron Nitride Surface Activity as Route to Composite Dielectric Films. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16913-16916.	8.0	26
11	Controlled 3D Assembly of Graphene Sheets to Build Conductive, Chemically Selective and Shape-Responsive Materials. <i>Advanced Materials</i> , 2017, 29, 1604947.	21.0	26
12	Surface Stress and Surface Tension in Polymeric Networks. <i>ACS Macro Letters</i> , 2018, 7, 116-121.	4.8	25
13	From Adhesion to Wetting: Contact Mechanics at the Surfaces of Super-Soft Brush-Like Elastomers. <i>ACS Macro Letters</i> , 2017, 6, 854-858.	4.8	24
14	Surface Stresses and a Force Balance at a Contact Line. <i>Langmuir</i> , 2018, 34, 7497-7502.	3.5	24
15	Adhesion and Wetting of Soft Nanoparticles on Textured Surfaces: Transition between Wenzel and Cassie-Baxter States. <i>Langmuir</i> , 2015, 31, 1693-1703.	3.5	22
16	How To Measure Work of Adhesion and Surface Tension of Soft Polymeric Materials. <i>Macromolecules</i> , 2018, 51, 4059-4067.	4.8	21
17	Contact Mechanics of Nanoparticles: Pulling Rigid Nanoparticles from Soft, Polymeric Surfaces. <i>Langmuir</i> , 2015, 31, 12520-12529.	3.5	16
18	Molecular Dynamics Simulations of the Effect of Elastocapillarity on Reinforcement of Soft Polymeric Materials by Liquid Inclusions. <i>Macromolecules</i> , 2016, 49, 7108-7115.	4.8	12

#	ARTICLE	IF	CITATIONS
19	Controlled Water Uptake in Fuel Cell Membranes with Dual Chemistry Confinement. Chemistry of Materials, 2021, 33, 6662-6670.	6.7	3
20	Immerse precipitation as an efficient protocol to optimize morphology and performance of organic solar cells. Applied Physics Letters, 2012, 101, 233306.	3.3	2
21	Gluing Interfaces with Soft Nanoparticles. Langmuir, 2019, 35, 7277-7284.	3.5	2