

Rui Shi

List of Publications by Year in descending order

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Version: 2024-02-01

14
papers

185
citations

1163117

8
h-index

1058476

14
g-index

14
all docs

14
docs citations

14
times ranked

223
citing authors

#	ARTICLE	IF	CITATIONS
1	An unexpected N-dependence in the viscosity reduction in all-polymer nanocomposite. <i>Nature Communications</i> , 2019, 10, 5552.	12.8	39
2	A non-sacrificial method for the quantification of poly(ethylene glycol) grafting density on gold nanoparticles for applications in nanomedicine. <i>Chemical Science</i> , 2019, 10, 2067-2074.	7.4	37
3	Computer simulation study on the self-assembly of unimodal and bimodal polymer-grafted nanoparticles in a polymer melt. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16524-16532.	2.8	22
4	Tuning cavitation and crazing in polymer nanocomposite glasses containing bimodal grafted nanoparticles at the nanoparticle/polymer interface. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7115-7126.	2.8	18
5	Temperature Effect on Interfacial Structure and Dynamics Properties in Polymer/Single-Chain Nanoparticle Composite. <i>Macromolecular Chemistry and Physics</i> , 2017, 218, 1700029.	2.2	11
6	Versatile fabrication of patchy nanoparticles via patterning of grafted diblock copolymers on NP surface. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 1417-1427.	2.8	10
7	Direct comparison between chemisorption and physisorption: a study of poly(ethylene glycol) by means of single-molecule force spectroscopy. <i>RSC Advances</i> , 2017, 7, 33883-33889.	3.6	9
8	Interfacial Tuning of the Cavitation and Strain-Softening Behavior of Polymer/Nanoparticle Composites in the Glassy State. <i>Macromolecules</i> , 2019, 52, 7353-7360.	4.8	9
9	Synthesis of Polymer Single-Chain Nanoparticle with High Compactness in Cosolvent Condition: A Computer Simulation Study. <i>Macromolecular Rapid Communications</i> , 2020, 41, e1900655.	3.9	9
10	Block-copolymer-like self-assembly behavior of mobile-ligand grafted ultra-small nanoparticles. <i>Soft Matter</i> , 2021, 17, 5897-5906.	2.7	5
11	Coarse-grained Dynamics Simulation in Polymer Systems: from Structures to Material Properties. <i>Chemical Research in Chinese Universities</i> , 2022, 38, 653-670.	2.6	5
12	Mechanism of periodic field driven self-assembly process. <i>Journal of Chemical Physics</i> , 2021, 154, 144904.	3.0	4
13	Relating the Degree of Nanofiller Functionality to the Glass Transition Temperature and Structure in a Polymer-Polyhedral Oligomeric Silsesquioxane Nanocomposite. <i>Macromolecules</i> , 2022, 55, 4891-4898.	4.8	4
14	Physical insights into stress-strain process of polymers under tensile deformation via machine learning. <i>Soft Materials</i> , 2020, 18, 323-334.	1.7	3