

Polymer Chain Behavior in Polymer Nanocomposites w

ACS Macro Letters

5, 523-527

DOI: [10.1021/acsmacrolett.6b00164](https://doi.org/10.1021/acsmacrolett.6b00164)

Citation Report

#	ARTICLE	IF	CITATIONS
2	Structure and Dynamics of Interacting Nanoparticles in Semidilute Polymer Solutions. <i>Macromolecules</i> , 2016, 49, 6568-6577.	2.2	36
3	Concepts and conflicts in nanoparticles reinforcement to polymers beyond hydrodynamics. <i>Progress in Materials Science</i> , 2016, 84, 1-58.	16.0	186
4	Intra- and Interchain Correlations in Polymer Nanocomposites: A Small-Angle Neutron Scattering Extrapolation Method. <i>ACS Macro Letters</i> , 2016, 5, 1095-1099.	2.3	19
5	<i>50th Anniversary Perspective</i>: Are Polymer Nanocomposites Practical for Applications?. <i>Macromolecules</i> , 2017, 50, 714-731.	2.2	491
6	Unraveling the Molecular Weight Dependence of Interfacial Interactions in Poly(2-vinylpyridine)/Silica Nanocomposites. <i>ACS Macro Letters</i> , 2017, 6, 68-72.	2.3	65
7	Reduced-mobility layers with high internal mobility in poly(ethylene oxide)â€“silica nanocomposites. <i>Journal of Chemical Physics</i> , 2017, 146, 203303.	1.2	25
8	Cluster size distribution of spherical nanoparticles in polymer nanocomposites: rheological quantification and evidence of phase separation. <i>Soft Matter</i> , 2017, 13, 4088-4098.	1.2	21
9	A Small-Angle Neutron Scattering Study of a Soft Model Nanofiller in an Athermal Melt. <i>Macromolecules</i> , 2017, 50, 4733-4741.	2.2	7
10	Focus: Structure and dynamics of the interfacial layer in polymer nanocomposites with attractive interactions. <i>Journal of Chemical Physics</i> , 2017, 146, 203201.	1.2	114
11	Direct Relationship Between Interfacial Microstructure and Confined Crystallization in Poly(Ethylene Oxide)/Silica Composites: The Study of Polymer Molecular Weight Effects. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1608-1616.	2.4	16
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14	Interactions between brush-grafted nanoparticles within chemically identical homopolymers: the effect of brush polydispersity. <i>Soft Matter</i> , 2018, 14, 1026-1042.	1.2	13
15	Multiscale Molecular Simulations of Polymer-Matrix Nanocomposites. <i>Archives of Computational Methods in Engineering</i> , 2018, 25, 591-645.	6.0	45
16	Large-scale reverse Monte Carlo analysis for the morphologies of silica nanoparticles in end-modified rubbers based on ultra-small-angle X-ray scattering data. <i>Polymer</i> , 2018, 135, 219-229.	1.8	22
17	Theoretical Interpretation of Conformation Variations of Polydimethylsiloxane Induced by Nanoparticles. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2018, 36, 505-513.	2.0	1
18	Miscibility and Nanoparticle Diffusion in Ionic Nanocomposites. <i>Polymers</i> , 2018, 10, 1010.	2.0	15
19	Influence of a nanoparticle on the structure and dynamics of model ionomer melts. <i>Soft Matter</i> , 2018, 14, 4621-4632.	1.2	11

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20	Local Structure and Relaxation Dynamics in the Brush of Polymer-Grafted Silica Nanoparticles. ACS Macro Letters, 2018, 7, 699-704.	2.3	49
21	Effect of copolymer sequence on structure and relaxation times near a nanoparticle surface. Soft Matter, 2018, 14, 5913-5921.	1.2	8
22	6.3 The Elusive Interphase/Interface in Polymer Nanocomposites. , 2018, , 52-72.		3
23	Direct Mapping of Nanoscale Viscoelastic Dynamics at Nanofiller/Polymer Interfaces. Macromolecules, 2018, 51, 6085-6091.	2.2	37
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33	Interfacial phenomena and molecular dynamics in core-shell-type nanocomposites based on polydimethylsiloxane and fumed silica: Comparison between impregnation and the new mechano-sorption modification as preparation methods. Polymer, 2020, 205, 122876.	1.8	3
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37	Entangled Polymer Dynamics in Attractive Nanocomposite Melts. Macromolecules, 2020, 53, 4982-4989.	2.2	14

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39	Dielectric Relaxation of Type-A Rouse Chains Undergoing Reversible End-Adsorption and Desorption. <i>Nihon Reoroji Gakkaishi</i> , 2020, 48, 27-35.	0.2	0
40	Dynamics of polymer segments, polymer chains, and nanoparticles in polymer nanocomposite melts: A review. <i>Progress in Polymer Science</i> , 2020, 105, 101242.	11.8	195
41	Selective dynamics in polymeric materials: Insights from quasi-elastic neutron scattering spectroscopy. <i>Journal of Applied Physics</i> , 2020, 127, .	1.1	12
42	Detecting bound polymer layers in attractive polymer-nanoparticle hybrids. <i>Nanoscale</i> , 2021, 13, 12910-12915.	2.8	5
43	Molecular Modeling and Simulation of Polymer Nanocomposites with Nanorod Fillers. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2435-2449.	1.2	21
44	Molecular View on Mechanical Reinforcement in Polymer Nanocomposites. <i>Physical Review Letters</i> , 2021, 126, 117801.	2.9	23
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46	Characterizing polymer structure with small-angle neutron scattering: A Tutorial. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	33
47	Collective Nanoparticle Dynamics Associated with Bridging Network Formation in Model Polymer Nanocomposites. <i>ACS Nano</i> , 2021, 15, 11501-11513.	7.3	34
48	Effect of surface properties and polymer chain length on polymer adsorption in solution. <i>Journal of Chemical Physics</i> , 2021, 155, 034701.	1.2	14
49	Insights from modeling into structure, entanglements, and dynamics in attractive polymer nanocomposites. <i>Soft Matter</i> , 2021, 17, 6362-6373.	1.2	18
50	Enhanced resistance to decay of imprinted nanopatterns in thin films by bare nanoparticles compared to polymer-grafted nanoparticles. <i>Nanoscale Advances</i> , 2021, 3, 5348-5354.	2.2	3
51	A correspondence between the Flory-Rehner theory for microgels and the Daoud-Cotton model for polymer-grafted nanoparticles. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	3
52	Structural and Dynamical Roles of Bound Polymer Chains in Rubber Reinforcement. <i>Macromolecules</i> , 2021, 54, 11032-11046.	2.2	17
53	Fundamentals of Dielectric Spectroscopy in Polymer Nanocomposites. <i>Advances in Dielectrics</i> , 2022, , 35-61.	1.2	0
55	Research progress on the correlation between properties of nanoparticles and their dispersion states in polymer matrix. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	1.3	16
56	In Situ SAXS and SANS Monitoring of Both Nanofillers and Polymer Chain Microstructure under Uniaxial Stretching in a Nanocomposite with a Controlled Anisotropic Structure. <i>Macromolecules</i> , 0, , .	2.2	0

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58	Local conformations and heterogeneities in structures and dynamics of isotactic polypropylene adsorbed onto carbon fiber. <i>Polymer</i> , 2023, 265, 125584.	1.8	2
59	Intensified Nonequilibrium Effect of Polymer Nanocomposites with Decreasing Nanoparticle Size. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 4527-4537.	4.0	3