

# Wenlin Zhang

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Predicting Chain Dimensions of Semiflexible Polymers from Dihedral Potentials. <i>Macromolecules</i> , 2014, 47, 6453-6461.	4.8	78
2	Predicting the Flory-Huggins $\chi$ Parameter for Polymers with Stiffness Mismatch from Molecular Dynamics Simulations. <i>Polymers</i> , 2016, 8, 241.	4.5	57
3	Predicting Flory-Huggins $\chi$ from Simulations. <i>Physical Review Letters</i> , 2017, 119, 017801.	7.8	44
4	Predicting Nematic Phases of Semiflexible Polymers. <i>Macromolecules</i> , 2015, 48, 1454-1462.	4.8	43
5	Direct All-Atom Molecular Dynamics Simulations of the Effects of Short Chain Branching on Polyethylene Oligomer Crystal Nucleation. <i>Macromolecules</i> , 2018, 51, 4762-4769.	4.8	43
6	Molecular Rectification in Conjugated Block Copolymer Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6978-6988.	3.1	32
7	Side chain length affects backbone dynamics in poly( $\epsilon$ -alkylthiophene)s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 1193-1202.	2.1	31
8	Surface-Induced Chain Alignment of Semiflexible Polymers. <i>Macromolecules</i> , 2016, 49, 963-971.	4.8	29
9	Effect of Flow-Induced Nematic Order on Polyethylene Crystal Nucleation. <i>Macromolecules</i> , 2020, 53, 7650-7657.	4.8	24
10	A metastable nematic precursor accelerates polyethylene oligomer crystallization as determined by atomistic simulations and self-consistent field theory. <i>Journal of Chemical Physics</i> , 2019, 150, 244903.	3.0	22
11	Nematic Order Imposes Molecular Weight Effect on Charge Transport in Conjugated Polymers. <i>ACS Central Science</i> , 2018, 4, 413-421.	11.3	16
12	Using surface-induced ordering to probe the isotropic-to-nematic transition for semiflexible polymers. <i>Soft Matter</i> , 2016, 12, 6141-6147.	2.7	15
13	Molecular Dynamics Simulations of the Effects of Entanglement on Polymer Crystal Nucleation. <i>Macromolecules</i> , 2022, 55, 4899-4906.	4.8	14
14	Modeling Intercolloidal Interactions Induced by Adsorption of Mobile Telechelic Polymers onto Particle Surfaces. <i>Macromolecules</i> , 2019, 52, 5357-5365.	4.8	11
15	Tension-Induced Nematic Phase Separation in Bidisperse Homopolymer Melts. <i>ACS Central Science</i> , 2018, 4, 1545-1550.	11.3	10
16	Molecular Dynamics Simulations of Crystal Nucleation near Interfaces in Incompatible Polymer Blends. <i>Polymers</i> , 2021, 13, 347.	4.5	9
17	Thermal Fluctuations Lead to Cumulative Disorder and Enhance Charge Transport in Conjugated Polymers. <i>Macromolecular Rapid Communications</i> , 2019, 40, e1900134.	3.9	8