

# Xiaozheng Duan

## List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Precise Molecular-Level Modification of Nafion with Bismuth Oxide Clusters for High-Performance Proton-Exchange Membranes. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6076-6085.	13.8	86
2	Low-Noise Nanopore Enables In-Situ and Label-Free Tracking of a Trigger-Induced DNA Molecular Machine at the Single-Molecular Level. <i>Journal of the American Chemical Society</i> , 2020, 142, 4481-4492.	13.7	83
3	A new lattice Monte Carlo simulation for dielectric saturation in ion-containing liquids. <i>Soft Matter</i> , 2015, 11, 3566-3571.	2.7	31
4	Monte Carlo Study of Polyelectrolyte Adsorption on Mixed Lipid Membrane. <i>Journal of Physical Chemistry B</i> , 2013, 117, 989-1002.	2.6	26
5	Flow-Induced Ring Polymer Translocation through Nanopores. <i>Macromolecules</i> , 2015, 48, 6002-6007.	4.8	24
6	How Does the Branching Effect of Macromonomer Influence the Polymerization, Structural Features, and Solution Properties of Long-Subchain Hyperbranched Polymers?. <i>Macromolecules</i> , 2019, 52, 1065-1082.	4.8	21
7	Flow-induced translocation of star polymers through a nanopore. <i>Soft Matter</i> , 2016, 12, 2851-2857.	2.7	20
8	Finely Tuning the Lower Critical Solution Temperature of Ionogels by Regulating the Polarity of Polymer Networks and Ionic Liquids. <i>CCS Chemistry</i> , 2022, 4, 1386-1396.	7.8	20
9	Formation of Ionomer Microparticles via Polyelectrolyte Complexation. <i>Macromolecules</i> , 2021, 54, 9053-9062.	4.8	18
10	Regulation of anionic lipids in binary membrane upon the adsorption of polyelectrolyte: A Monte Carlo simulation. <i>AIP Advances</i> , 2013, 3, .	1.3	17
11	Structure and dynamics of ions in dipolar solvents: a coarse-grained simulation study. <i>Soft Matter</i> , 2021, 17, 6305-6314.	2.7	17
12	Precise Molecular-Level Modification of Nafion with Bismuth Oxide Clusters for High-Performance Proton-Exchange Membranes. <i>Angewandte Chemie</i> , 2021, 133, 6141-6150.	2.0	16
13	Effects of Chain Rigidity on the Adsorption of a Polyelectrolyte Chain on Mixed Lipid Monolayer: A Monte Carlo Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 6041-6049.	2.6	15
14	Flow-induced polymer translocation through a nanopore from a confining nanotube. <i>Journal of Chemical Physics</i> , 2016, 144, 174903.	3.0	13
15	Structures of cationic and anionic polyelectrolytes in aqueous solutions: the sign effect. <i>Soft Matter</i> , 2022, 18, 1603-1616.	2.7	13
16	Flow-induced polymer separation through a nanopore: effects of solvent quality. <i>Soft Matter</i> , 2017, 13, 7239-7243.	2.7	11
17	Molecular Dynamics Simulation of Salt Diffusion in Polyelectrolyte Assemblies. <i>Journal of Physical Chemistry B</i> , 2018, 122, 6656-6665.	2.6	11
18	Designing narcissistic self-sorting terpyridine moieties with high coordination selectivity for complex metallo-supramolecules. <i>Communications Chemistry</i> , 2021, 4, .	4.5	11

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19	Effects of nanopore size on the flow-induced star polymer translocation. <i>European Physical Journal E</i> , 2016, 39, 109.	1.6	10
20	Polymer Escape from Confining Nanotube in Reverse Flow. <i>Macromolecules</i> , 2017, 50, 7777-7782.	4.8	10
21	Single Copolymer Chain-Templated Synthesis of Ultrasmall Symmetric and Asymmetric Silica-Based Nanoparticles. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	10
22	Dissipative Particle Dynamics Study on Interfacial Properties of Symmetric Ternary Polymeric Blends. <i>Polymers</i> , 2021, 13, 1516.	4.5	9
23	DPD Study on the Interfacial Properties of PEO/PEO-PPO-PEO/PPO Ternary Blends: Effects of Pluronic Structure and Concentration. <i>Polymers</i> , 2021, 13, 2866.	4.5	9
24	Developing Dawson-Type Polyoxometalates Used as Highly Efficient Catalysts for Lignocellulose Transformation. <i>ACS Catalysis</i> , 2022, 12, 9213-9225.	11.2	9
25	Effect of polyelectrolyte adsorption on lateral distribution and dynamics of anionic lipids: a Monte Carlo study of a coarse-grain model. <i>European Biophysics Journal</i> , 2014, 43, 377-391.	2.2	8
26	P4VP-Ru <sup>II</sup> (bda) polyelectrolyte-metal complex as water oxidation catalyst: on the unique slow-diffusion and multi-charge effects of the polyelectrolyte ligand. <i>RSC Advances</i> , 2018, 8, 38818-38830.	3.6	8
27	Effect of Macromonomer Branching on Structural Features and Solution Properties of Long-Subchain Hyperbranched Polymers: The Case of Four-Arm Star Macromonomers. <i>Macromolecules</i> , 2019, 52, 6566-6577.	4.8	8
28	Glass formation in a mixture of hard disks and hard ellipses. <i>Journal of Chemical Physics</i> , 2015, 142, 224506.	3.0	7
29	Effects of Concentration and Ionization Degree of Anchoring Cationic Polymers on the Lateral Heterogeneity of Anionic Lipid Monolayers. <i>Journal of Physical Chemistry B</i> , 2017, 121, 984-994.	2.6	7
30	Adsorption of a hydrophobic cationic polypeptide onto acidic lipid membrane. <i>Polymer</i> , 2017, 122, 125-138.	3.8	7
31	Chain Conformation of Hyperbranched Polymers with Uniform Branching Subchains in Dilute Solution near the $\Gamma_1$ Point. <i>Macromolecules</i> , 2020, 53, 7980-7987.	4.8	7
32	Effects of Repulsion Parameter and Chain Length of Homopolymers on Interfacial Properties of An/Ax/2BxAx/2/Bm Blends: A DPD Simulation Study. <i>Polymers</i> , 2021, 13, 2333.	4.5	7
33	Unusual switching of ionic conductivity in ionogels enabled by water-induced phase separation. <i>Aggregate</i> , 2023, 4, .	9.9	7
34	Compositional redistribution and dynamic heterogeneity in mixed lipid membrane induced by polyelectrolyte adsorption: Effects of chain rigidity. <i>European Physical Journal E</i> , 2014, 37, 27.	1.6	6
35	Flow-Driven Translocation of a Diblock Copolymer through a Nanopore. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8848-8852.	2.6	6
36	Translocation of Micelles through a Nanochannel. <i>Macromolecules</i> , 2022, 55, 6487-6492.	4.8	6

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37	Highly Selective Semihydrogenation via a Wettability-Regulated Mass Transfer Process. ACS Catalysis, 2022, 12, 8494-8502.	11.2	4
38	Spatial Rearrangement and Mobility Heterogeneity of an Anionic Lipid Monolayer Induced by the Anchoring of Cationic Semiflexible Polymer Chains. Polymers, 2016, 8, 235.	4.5	3
39	Monte Carlo study on a complex of cationic polymers and anionic lipid monolayer. Polymer, 2016, 104, 138-148.	3.8	3
40	Effect of hydrodynamic interaction on flow-induced polymer translocation through a nanotube. Chemical Research in Chinese Universities, 2015, 31, 658-663.	2.6	2
41	Electrostatic Adsorption Behaviors of Charged Polymer- $\epsilon$ -ethered Nanoparticles on Oppositely Charged Surfaces. Macromolecular Rapid Communications, 2022, , 2200171.	3.9	1