

# Jiang Zhao

## List of Publications by Year in descending order

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73  
papers

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citations

394421

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434195

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73  
docs citations

73  
times ranked

1409  
citing authors

#	ARTICLE	IF	CITATIONS
1	Shear-Induced Counterion Release of a Polyelectrolyte. <i>Macromolecules</i> , 2022, 55, 1647-1656.	4.8	3
2	Poly(ethylene oxide) Is Positively Charged in Aqueous Solutions. <i>Gels</i> , 2022, 8, 213.	4.5	6
3	Clusterin inhibits A $\beta$ 42 aggregation through a "strawberry model" as detected by FRET-FCS. <i>Journal of Neurochemistry</i> , 2021, 158, 444-454.	3.9	2
4	Counterion Binding Dynamics of a Polyelectrolyte. <i>Macromolecules</i> , 2021, 54, 4926-4933.	4.8	7
5	Effect of Counterion Binding to Swelling of Polyelectrolyte Brushes. <i>Langmuir</i> , 2021, 37, 5554-5562.	3.5	7
6	Molecular motion activated by residual stress in a glassy polymer thin film. <i>Journal of Chemical Physics</i> , 2021, 155, 234903.	3.0	7
7	Enhancing the ionic conductivity in a composite polymer electrolyte with ceramic nanoparticles anchored to charged polymer brushes. <i>Chinese Chemical Letters</i> , 2020, 31, 831-835.	9.0	25
8	Macromolecular Crowding and Confinement Effect on the Growth of DNA Nanotubes in Dextran and Hyaluronic Acid Media. <i>ACS Applied Bio Materials</i> , 2020, 3, 412-420.	4.6	4
9	Anomalous Diffusion Inside Soft Colloidal Suspensions Investigated by Variable Length Scale Fluorescence Correlation Spectroscopy. <i>ACS Omega</i> , 2020, 5, 11123-11130.	3.5	4
10	On the Microstructure and Properties of Nb-12Ti-18Si-6Ta-5Al-5Cr-2.5W-1Hf (at.%) Silicide-Based Alloys with Ge and Sn Additions. <i>Materials</i> , 2020, 13, 3719.	2.9	10
11	On the Microstructure and Properties of Nb-18Si-6Mo-5Al-5Cr-2.5W-1Hf Nb-Silicide Based Alloys with Ge, Sn and Ti Additions (at.%). <i>Materials</i> , 2020, 13, 4548.	2.9	11
12	Lateral diffusion of single polymer molecules at interfaces between water and oil. <i>RSC Advances</i> , 2020, 10, 16565-16569.	3.6	4
13	Polymeric liquid layer densified by surface acoustic wave. <i>Journal of Chemical Physics</i> , 2020, 152, 224901.	3.0	3
14	On the Microstructure and Properties of Nb-12Ti-18Si-6Ta-2.5W-1Hf (at.%) Silicide-Based Alloys with Ge and Sn Additions. <i>Materials</i> , 2020, 13, 1778.	2.9	17
15	Studying the physics of charged macromolecules by single molecule fluorescence spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 170903.	3.0	7
16	The experimental evidence of multi-step $\tau$ -relaxation mode in liquid crystalline side chain polymers by time-resolved fluorescence emission spectroscopy. <i>Polymer</i> , 2019, 179, 121683.	3.8	0
17	Crowding and Confinement Effects in Different Polymer Concentration Regimes and Their Roles in Regulating the Growth of Nanotubes. <i>Macromolecules</i> , 2019, 52, 4251-4259.	4.8	4
18	Diffusive Motion of Single Polyelectrolyte Molecules under Electrostatic Repulsion. <i>Macromolecules</i> , 2019, 52, 3925-3934.	4.8	8

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19	Controllable supramolecular "opening" polymerization based on DNA duplex. <i>Polymer</i> , 2019, 171, 121-126.	3.8	9
20	Light- and pH-responsive self-healing hydrogel. <i>Journal of Materials Science</i> , 2019, 54, 9983-9994.	3.7	20
21	A negative correlation between water content and protein adsorption on polymer brushes. <i>Journal of Materials Chemistry B</i> , 2019, 7, 2162-2168.	5.8	14
22	Enhanced Diffusion and Oligomeric Enzyme Dissociation. <i>Journal of the American Chemical Society</i> , 2019, 141, 20062-20068.	13.7	31
23	Cell membrane mimetic copolymer coated polydopamine nanoparticles for combined pH-sensitive drug release and near-infrared photothermal therapeutic. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 176, 1-8.	5.0	28
24	The In-plane Orientation and Thermal Mechanical Properties of the Chemically Imidized Polyimide Films. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2019, 37, 268-278.	3.8	30
25	The effect of solvent to the kinetics of imidization of poly(amic acid). <i>Polymer</i> , 2018, 143, 46-51.	3.8	16
26	Charge evolution during the unfolding of a single DNA i-motif. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 916-924.	2.8	14
27	Positioning a fluorescent probe at the core of a glassy star polymer for detection of local dynamics. <i>Chinese Chemical Letters</i> , 2018, 29, 374-380.	9.0	5
28	The effects of fluorescent labels on $\text{A}\beta_{42}$ aggregation detected by fluorescence correlation spectroscopy. <i>Biopolymers</i> , 2018, 109, e23237.	2.4	9
29	Probing the interplay between chain diffusion and polymer crystal growth under nanoscale confinement: a study by single molecule fluorescence microscopy. <i>Science China Chemistry</i> , 2018, 61, 1440-1446.	8.2	4
30	Facile preparation of ductile, free-standing and multilayer polymeric optical data storage media with macroscopic structural homogeneity. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6118-6124.	5.5	1
31	Response of a Permanently Charged Polyelectrolyte Brush to External Ions: The Aspects of Structure and Dynamics. <i>Langmuir</i> , 2018, 34, 6757-6765.	3.5	14
32	Molecular weight dependence of chain conformation of strong polyelectrolytes. <i>Journal of Chemical Physics</i> , 2018, 149, 163329.	3.0	16
33	Counterion Cloud Expansion of a Polyelectrolyte by Dilution. <i>Macromolecules</i> , 2018, 51, 4444-4450.	4.8	10
34	Retarded local dynamics of single fluorescent probes in polymeric glass due to interaction strengthening. <i>Polymer</i> , 2017, 116, 452-457.	3.8	7
35	Detection of site-dependent segmental mobility of polymer by fluorescent defocused imaging. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2017, 35, 1488-1496.	3.8	5
36	Huge Differences in the Kinetics of Swelling Enhancement and Deenhancement of Permanently Charged Polyelectrolyte Brushes. <i>Chemistry - an Asian Journal</i> , 2016, 11, 2802-2807.	3.3	1

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37	Single chains of strong polyelectrolytes in aqueous solutions at extreme dilution: Conformation and counterion distribution. <i>Journal of Chemical Physics</i> , 2016, 145, 144903.	3.0	21
38	Photo-controllable coil-to-globule transition of single polymer molecules. <i>Polymer</i> , 2016, 97, 309-313.	3.8	9
39	When does a diblock copolymer probe the interfacial rheological effect?. <i>Science China Chemistry</i> , 2016, 59, 1330-1334.	8.2	1
40	Examining dynamics in a polymer matrix by single molecule fluorescence probes of different sizes. <i>Soft Matter</i> , 2016, 12, 7299-7306.	2.7	17
41	Interfacial diffusion of a single cyclic polymer chain. <i>Soft Matter</i> , 2016, 12, 9520-9526.	2.7	16
42	Kinesin <sup>1</sup> inhibits the aggregation of amyloid <sup>2</sup> peptide as detected by fluorescence cross-correlation spectroscopy. <i>FEBS Letters</i> , 2016, 590, 1028-1037.	2.8	8
43	Understanding anti <sup>1</sup> polyelectrolyte behavior of a well <sup>2</sup> defined polyzwitterion at the single <sup>3</sup> chain level. <i>Polymer International</i> , 2015, 64, 999-1005.	3.1	71
44	Standardization and Metrology for Efficiency and Reliability in Microbeam Analysis - No pain, no gain. <i>Microscopy and Microanalysis</i> , 2015, 21, 1477-1478.	0.4	0
45	Axial Growth and Fusion of Liposome Regulated by Macromolecular Crowding and Confinement. <i>Langmuir</i> , 2015, 31, 4822-4826.	3.5	3
46	Probing the Adjustments of Macromolecules during Their Surface Adsorption. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 6422-6429.	8.0	34
47	The growth of filaments under macromolecular confinement using scaling theory. <i>Chemical Communications</i> , 2015, 51, 15928-15931.	4.1	3
48	Segmental dynamics near the chain end of polystyrene in its ultrathin films: A study by single-molecule fluorescence de-focus microscopy. <i>Science China Chemistry</i> , 2014, 57, 389-396.	8.2	4
49	Effect of particle polydispersity on the structure and dynamics of complex formation between small particles and large polymer. <i>RSC Advances</i> , 2014, 4, 14896.	3.6	6
50	Swelling enhancement of polyelectrolyte brushes induced by external ions. <i>Soft Matter</i> , 2014, 10, 5568-5578.	2.7	46
51	AC-electrokinetic manipulation and controlled encapsulate release of surfactant based micelles. <i>Soft Matter</i> , 2013, 9, 5052.	2.7	5
52	Resolving the Difference in Electric Potential within a Charged Macromolecule. <i>Macromolecules</i> , 2013, 46, 3132-3136.	4.8	23
53	Fluorescence correlation spectroscopy of repulsive systems: Theory, simulation, and experiment. <i>Journal of Chemical Physics</i> , 2013, 138, 214902.	3.0	5
54	Advantage of Fluorescence Correlation Spectroscopy for the Study of Polyelectrolytes. <i>Chinese Journal of Chemistry</i> , 2012, 30, 2237-2240.	4.9	5

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55	Conformational Transition of Poly(N-isopropylacrylamide) Single Chains in Its Cononsolvency Process: A Study by Fluorescence Correlation Spectroscopy and Scaling Analysis. <i>Macromolecules</i> , 2012, 45, 9196-9204.	4.8	51
56	Dynamic exchange of counterions of polystyrene sulfonate. <i>Journal of Chemical Physics</i> , 2012, 136, 084904.	3.0	33
57	Diffusion of Ionic Fluorescent Probes atop Polyelectrolyte Brushes. <i>Journal of Physical Chemistry B</i> , 2011, 115, 15167-15173.	2.6	19
58	Hofmeister Effect on the Interfacial Dynamics of Single Polymer Molecules. <i>Langmuir</i> , 2011, 27, 11757-11760.	3.5	16
59	Analysis of interfacial adhesion behaviors by single-fiber composite tensile tests and surface wettability tests. <i>Polymer Composites</i> , 2010, 31, 1457-1464.	4.6	10
60	Direct Observation of Rotational Motion of Fluorophores Chemically Attached to Polystyrene in Its Thin Films. <i>Macromolecules</i> , 2010, 43, 3165-3168.	4.8	37
61	Single chain contraction and re-expansion of polystyrene sulfonate: A study on its re-entrant condensation at single molecular level. <i>Journal of Chemical Physics</i> , 2009, 131, 231103.	3.0	42
62	Mobility of single DNA chain under electric field during its transient contact with solid surfaces. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 2541-2546.	2.1	4
63	Influence of Interfacial Properties on Crack Propagation in Fiber-Reinforced Polymer Matrix Composites. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 194-205.	3.6	9
64	Phase separation of polystyrene-b-(ethylene-co-butylene)-b-styrene (SEBS) deposited on polystyrene thin films. <i>Polymer</i> , 2008, 49, 2153-2159.	3.8	8
65	Lateral Mobility of Single Chains at a Liquid Polymer Interface. <i>Macromolecules</i> , 2008, 41, 7284-7286.	4.8	14
66	Charge on a weak polyelectrolyte. <i>Journal of Chemical Physics</i> , 2008, 129, 241102.	3.0	43
67	First-order conformation transition of single poly(2-vinylpyridine) molecules in aqueous solutions. <i>Journal of Chemical Physics</i> , 2007, 126, 091104.	3.0	45
68	How Polymer Surface Diffusion Depends on Surface Coverage. <i>Macromolecules</i> , 2007, 40, 1243-1247.	4.8	70
69	Diffusion of Single Polyelectrolytes on the Surface of Poly(N-isopropylacrylamide) Brushes. <i>Macromolecules</i> , 2007, 40, 9564-9569.	4.8	33
70	Polymer Lateral Diffusion at the Solid-Liquid Interface. <i>Journal of the American Chemical Society</i> , 2004, 126, 6242-6243.	13.7	91
71	Watching macromolecules diffuse at surfaces and under confinement. <i>Macromolecular Symposia</i> , 2003, 201, 89-94.	0.7	4
72	Dynamic studies of degenerate four-wave mixing in an azobenzene-doped polymer film with an optical pump. <i>Journal of Chemical Physics</i> , 1995, 103, 5357-5361.	3.0	22

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73	Fluence dependence of nonlinear optical response of cadmium texaphyrin. Applied Physics Letters, 1995, 67, 1975-1977.	3.3	7