

Jiang Zhao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1335375/publications.pdf>

Version: 2024-02-01

73
papers

1,198
citations

394421

19
h-index

434195

31
g-index

73
all docs

73
docs citations

73
times ranked

1409
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Polymer Lateral Diffusion at the Solid~Liquid Interface. <i>Journal of the American Chemical Society</i> , 2004, 126, 6242-6243. | 13.7 | 91 |
| 2 | Understanding anti~polyelectrolyte behavior of a well~defined polyzwitterion at the single~chain level. <i>Polymer International</i> , 2015, 64, 999-1005. | 3.1 | 71 |
| 3 | How Polymer Surface Diffusion Depends on Surface Coverage. <i>Macromolecules</i> , 2007, 40, 1243-1247. | 4.8 | 70 |
| 4 | 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 |
| 5 | Swelling enhancement of polyelectrolyte brushes induced by external ions. <i>Soft Matter</i> , 2014, 10, 5568-5578. | 2.7 | 46 |
| 6 | 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 |
| 7 | Charge on a weak polyelectrolyte. <i>Journal of Chemical Physics</i> , 2008, 129, 241102. | 3.0 | 43 |
| 8 | 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 |
| 9 | 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 |
| 10 | Probing the Adjustments of Macromolecules during Their Surface Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 6422-6429. | 8.0 | 34 |
| 11 | Diffusion of Single Polyelectrolytes on the Surface of Poly(N-isopropylacrylamide) Brushes. <i>Macromolecules</i> , 2007, 40, 9564-9569. | 4.8 | 33 |
| 12 | Dynamic exchange of counterions of polystyrene sulfonate. <i>Journal of Chemical Physics</i> , 2012, 136, 084904. | 3.0 | 33 |
| 13 | Enhanced Diffusion and Oligomeric Enzyme Dissociation. <i>Journal of the American Chemical Society</i> , 2019, 141, 20062-20068. | 13.7 | 31 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | Resolving the Difference in Electric Potential within a Charged Macromolecule. <i>Macromolecules</i> , 2013, 46, 3132-3136. | 4.8 | 23 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | 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 |
| 20 | Light- and pH-responsive self-healing hydrogel. <i>Journal of Materials Science</i> , 2019, 54, 9983-9994. | 3.7 | 20 |
| 21 | Diffusion of Ionic Fluorescent Probes atop Polyelectrolyte Brushes. <i>Journal of Physical Chemistry B</i> , 2011, 115, 15167-15173. | 2.6 | 19 |
| 22 | 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 |
| 23 | 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 |
| 24 | Hofmeister Effect on the Interfacial Dynamics of Single Polymer Molecules. <i>Langmuir</i> , 2011, 27, 11757-11760. | 3.5 | 16 |
| 25 | Interfacial diffusion of a single cyclic polymer chain. <i>Soft Matter</i> , 2016, 12, 9520-9526. | 2.7 | 16 |
| 26 | The effect of solvent to the kinetics of imidization of poly(amic acid). <i>Polymer</i> , 2018, 143, 46-51. | 3.8 | 16 |
| 27 | Molecular weight dependence of chain conformation of strong polyelectrolytes. <i>Journal of Chemical Physics</i> , 2018, 149, 163329. | 3.0 | 16 |
| 28 | Lateral Mobility of Single Chains at a Liquid Polymer Interface. <i>Macromolecules</i> , 2008, 41, 7284-7286. | 4.8 | 14 |
| 29 | Charge evolution during the unfolding of a single DNA i-motif. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 916-924. | 2.8 | 14 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | Counterion Cloud Expansion of a Polyelectrolyte by Dilution. <i>Macromolecules</i> , 2018, 51, 4444-4450. | 4.8 | 10 |
| 35 | 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 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Photo-controllable coil-to-globule transition of single polymer molecules. <i>Polymer</i> , 2016, 97, 309-313. | 3.8 | 9 |
| 38 | 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 |
| 39 | Controllable supramolecular π - π opening polymerization based on DNA duplex. <i>Polymer</i> , 2019, 171, 121-126. | 3.8 | 9 |
| 40 | 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 |
| 41 | Kinesin γ inhibits the aggregation of amyloid β peptide as detected by fluorescence cross-correlation spectroscopy. <i>FEBS Letters</i> , 2016, 590, 1028-1037. | 2.8 | 8 |
| 42 | Diffusive Motion of Single Polyelectrolyte Molecules under Electrostatic Repulsion. <i>Macromolecules</i> , 2019, 52, 3925-3934. | 4.8 | 8 |
| 43 | Fluence dependence of nonlinear optical response of cadmium texaphyrin. <i>Applied Physics Letters</i> , 1995, 67, 1975-1977. | 3.3 | 7 |
| 44 | Retarded local dynamics of single fluorescent probes in polymeric glass due to interaction strengthening. <i>Polymer</i> , 2017, 116, 452-457. | 3.8 | 7 |
| 45 | Counterion Binding Dynamics of a Polyelectrolyte. <i>Macromolecules</i> , 2021, 54, 4926-4933. | 4.8 | 7 |
| 46 | Effect of Counterion Binding to Swelling of Polyelectrolyte Brushes. <i>Langmuir</i> , 2021, 37, 5554-5562. | 3.5 | 7 |
| 47 | Studying the physics of charged macromolecules by single molecule fluorescence spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 170903. | 3.0 | 7 |
| 48 | Molecular motion activated by residual stress in a glassy polymer thin film. <i>Journal of Chemical Physics</i> , 2021, 155, 234903. | 3.0 | 7 |
| 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 | Poly(ethylene oxide) Is Positively Charged in Aqueous Solutions. <i>Gels</i> , 2022, 8, 213. | 4.5 | 6 |
| 51 | Advantage of Fluorescence Correlation Spectroscopy for the Study of Polyelectrolytes. <i>Chinese Journal of Chemistry</i> , 2012, 30, 2237-2240. | 4.9 | 5 |
| 52 | AC-electrokinetic manipulation and controlled encapsulate release of surfactant based micelles. <i>Soft Matter</i> , 2013, 9, 5052. | 2.7 | 5 |
| 53 | Fluorescence correlation spectroscopy of repulsive systems: Theory, simulation, and experiment. <i>Journal of Chemical Physics</i> , 2013, 138, 214902. | 3.0 | 5 |
| 54 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Positioning a fluorescent probe at the core of a glassy star polymer for detection of local dynamics. Chinese Chemical Letters, 2018, 29, 374-380. | 9.0 | 5 |
| 56 | Watching macromolecules diffuse at surfaces and under confinement. Macromolecular Symposia, 2003, 201, 89-94. | 0.7 | 4 |
| 57 | Mobility of single DNA chain under electric field during its transient contact with solid surfaces. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 2541-2546. | 2.1 | 4 |
| 58 | Segmental dynamics near the chain end of polystyrene in its ultrathin films: A study by single-molecule fluorescence de-focus microscopy. Science China Chemistry, 2014, 57, 389-396. | 8.2 | 4 |
| 59 | Probing the interplay between chain diffusion and polymer crystal growth under nanoscale confinement: a study by single molecule fluorescence microscopy. Science China Chemistry, 2018, 61, 1440-1446. | 8.2 | 4 |
| 60 | Crowding and Confinement Effects in Different Polymer Concentration Regimes and Their Roles in Regulating the Growth of Nanotubes. Macromolecules, 2019, 52, 4251-4259. | 4.8 | 4 |
| 61 | Macromolecular Crowding and Confinement Effect on the Growth of DNA Nanotubes in Dextran and Hyaluronic Acid Media. ACS Applied Bio Materials, 2020, 3, 412-420. | 4.6 | 4 |
| 62 | Anomalous Diffusion Inside Soft Colloidal Suspensions Investigated by Variable Length Scale Fluorescence Correlation Spectroscopy. ACS Omega, 2020, 5, 11123-11130. | 3.5 | 4 |
| 63 | Lateral diffusion of single polymer molecules at interfaces between water and oil. RSC Advances, 2020, 10, 16565-16569. | 3.6 | 4 |
| 64 | Axial Growth and Fusion of Liposome Regulated by Macromolecular Crowding and Confinement. Langmuir, 2015, 31, 4822-4826. | 3.5 | 3 |
| 65 | The growth of filaments under macromolecular confinement using scaling theory. Chemical Communications, 2015, 51, 15928-15931. | 4.1 | 3 |
| 66 | Polymeric liquid layer densified by surface acoustic wave. Journal of Chemical Physics, 2020, 152, 224901. | 3.0 | 3 |
| 67 | Shear-Induced Counterion Release of a Polyelectrolyte. Macromolecules, 2022, 55, 1647-1656. | 4.8 | 3 |
| 68 | Clusterin inhibits A β 42 aggregation through a "strawberry model" as detected by FRET-FCS. Journal of Neurochemistry, 2021, 158, 444-454. | 3.9 | 2 |
| 69 | Huge Differences in the Kinetics of Swelling Enhancement and Deenhancement of Permanently Charged Polyelectrolyte Brushes. Chemistry - an Asian Journal, 2016, 11, 2802-2807. | 3.3 | 1 |
| 70 | When does a diblock copolymer probe the interfacial rheological effect?. Science China Chemistry, 2016, 59, 1330-1334. | 8.2 | 1 |
| 71 | Facile preparation of ductile, free-standing and multilayer polymeric optical data storage media with macroscopic structural homogeneity. Journal of Materials Chemistry C, 2018, 6, 6118-6124. | 5.5 | 1 |
| 72 | Standardization and Metrology for Efficiency and Reliability in Microbeam Analysis - No pain, no gain. Microscopy and Microanalysis, 2015, 21, 1477-1478. | 0.4 | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | The experimental evidence of multi-step $\hat{\nu}$ -relaxation mode in liquid crystalline side chain polymers by time-resolved fluorescence emission spectroscopy. <i>Polymer</i> , 2019, 179, 121683. | 3.8 | 0 |