Wenke Zhang

List of Publications by Year
in descending order

59 papers	2,454 citations	257101 24 h-index	197535 49 g-index
59 all docs	59 docs citations	59 times ranked	2994 citing authors

#	Article	IF	Citations
1	Identification of the New Type of G-Quadruplex with Multiple Vacant Sites in Human Telomeric DNA. CCS Chemistry, 2022, 4, 3023-3035.	4.6	17
2	Chemical Fuel Mediated Selfâ€Regulatory Polymer Brushes for Autonomous Fluorescence Modulator and Wettability Switcher. Macromolecular Rapid Communications, 2022, 43, e2100878.	2.0	4
3	Cinobufotalin inhibits the epithelial-mesenchymal transition of hepatocellular carcinoma cells through down-regulate Î²-catenin in vitro and in vivo. European Journal of Pharmacology, 2022, 922, 174886.	1.7	6
4	Manipulation of a Single Polymer Chain: From the Nanomechanical Properties to Dynamic Structure Evolution. Macromolecules, 2022, 55, 4177-4199.	2.2	8
5	Achieving Aliphatic Amine Addition to Arylalkynes via the Lewis Acid Assisted Triazole-Gold (TA-Au) Catalyst System. Organic Letters, 2021, 23, 6019-6023.	2.4	6
6	Single-molecule observation of mechanical isomerization of spirothiopyran and subsequent Click addition. Nano Research, 2021, 14, 2654-2658.	5.8	14
7	Quantifying the Mechanical Anisotropy in Poly(3-hexylthiophene) Nanofibers. ACS Macro Letters, 2020, 9, 108-114.	2.3	4
8	A Polymer with Mechanochemically Active Hidden Length. Journal of the American Chemical Society, 2020, 142, 18687-18697.	6.6	46
9	Effects of Psoralen on Histoneâ€DNA Interactions Studied by Using Atomic Force Microscopy. Macromolecular Rapid Communications, 2020, 41, e2000017.	2.0	1
10	Nanomechanical Properties of a Supramolecular Helix Stabilized by Nonâ€Covalent Interactions. Macromolecular Rapid Communications, 2020, 41, 2000453.	2.0	4
11	Side-Chain Length Dependence of Youngâ€™s Modulus and Strength in Crystalline Poly(3-alkylthiophene) Nanofibers. Macromolecules, 2020, 53, 10061-10068.	2.2	10
12	Dynamic topology of double-stranded telomeric DNA studied by single-molecule manipulation in vitro. Nucleic Acids Research, 2020, 48, 6458-6470.	6.5	9
13	A single-molecule study reveals novel rod-like structures formed by a thrombin aptamer repeat sequence. Nanoscale, 2020, 12, 4159-4166.	2.8	9
14	Polymer Research at the State Key Laboratory of Supramolecular Structure and Materials, Jilin University. Macromolecular Rapid Communications, 2020, 41, e2000630.	2.0	0
15	Mechanochemistry of an Interlocked Poly[2]catenane: From Single Molecule to Bulk Gel. CCS Chemistry, 2020, 2, 513-523.	4.6	52
16	A single-molecule atomic force microscopy study reveals the antiviral mechanism of tannin and its derivatives. Nanoscale, 2019, 11, 16368-16376.	2.8	13
17	Interactions between PHD3-Bromo of MLL1 and H3K4me3 Revealed by Single-Molecule Magnetic Tweezers in a Parallel DNA Circuit. Bioconjugate Chemistry, 2019, 30, 2998-3006.	1.8	11
18	Quantifying the Chain Folding in Polymer Single Crystals by Single-Molecule Force Spectroscopy. ACS Macro Letters, 2019, 8, 1194-1199.	2.3	25

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19	Single-Molecule Force Spectroscopy Study on Force-Induced Melting in Polymer Single Crystals: The Chain Conformation Matters. Macromolecules, 2019, 52, 1327-1333.	2.2	27
20	Quantifying the Bonding Strength of Goldâ€Chalcogen Bonds in Block Copolymer Systems. Chemistry - an Asian Journal, 2019, 14, 1481-1486.	1.7	22
21	Two-dimensional polymers with versatile functionalities via gemini monomers. Science Advances, 2019, 5, eaaw9120.	4.7	6
22	Forceâ€induced melting of a single polyethylene oxide chain from single crystal: Molecular behavior and influencing factors. Polymer Crystallization, 2019, 2, e10048.	0.5	2
23	Direct observation of the wrapping/unwrapping of ssDNA around/from a SWCNT at the single-molecule level: towards tuning the binding mode and strength. Nanoscale, 2018, 10, 18586-18596.	2.8	22
24	Unfolding of a Single Polymer Chain from the Single Crystal by Air-Phase Single-Molecule Force Spectroscopy: Toward Better Force Precision and More Accurate Description of Molecular Behaviors. Macromolecules, 2018, 51, 7052-7060.	2.2	31
25	Atomic Force Microscopy Imaging Study of Aligning DNA by Dumbbell-like Auâ€“Fe₃O₄ Magnetic Nanoparticles. Langmuir, 2018, 34, 14875-14881.	1.6	10
26	Direct Observation of Single-Molecule Stickâ€“Slip Motion in Polyamide Single Crystals. ACS Macro Letters, 2018, 7, 762-766.	2.3	28
27	Effect of Chain Conformation on the Single-Molecule Melting Force in Polymer Single Crystals: Steered Molecular Dynamics Simulations Study. Langmuir, 2017, 33, 1826-1833.	1.6	12
28	Multi-modal mechanophores based on cinnamate dimers. Nature Communications, 2017, 8, 1147.	5.8	106
29	Single Molecule Study on Polymerâ€“Nanoparticle Interactions: The Particle Shape Matters. Langmuir, 2017, 33, 7615-7621.	1.6	6
30	Transparent, Healable Elastomers with High Mechanical Strength and Elasticity Derived from Hydrogen-Bonded Polymer Complexes. ACS Applied Materials & Interfaces, 2017, 9, 29120-29129.	4.0	136
31	Quantifying the Interactions between PEI and Double-Stranded DNA: Toward the Understanding of the Role of PEI in Gene Delivery. ACS Applied Materials & Interfaces, 2016, 8, 21055-21062.	4.0	21
32	Investigation of the binding modes between AIE-active molecules and dsDNA by single molecule force spectroscopy. Nanoscale, 2015, 7, 8939-8945.	2.8	25
33	Quantifying thiolâ€“gold interactions towards the efficient strength control. Nature Communications, 2014, 5, 4348.	5.8	518
34	Single-Molecule Force Spectroscopy Study on the Mechanism of RNA Disassembly in Tobacco Mosaic Virus. Biophysical Journal, 2013, 105, 2790-2800.	0.2	18
35	Exploring the Folding Pattern of a Polymer Chain in a Single Crystal by Combining Single-Molecule Force Spectroscopy and Steered Molecular Dynamics Simulations. Langmuir, 2013, 29, 3853-3857.	1.6	20
36	Feeling Interâ€• or Intramolecular Interactions with the Polymer Chain as Probe: Recent Progress in SMFS Studies on Macromolecular Interactions. ChemPhysChem, 2012, 13, 2238-2256.	1.0	18

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37	Extracting a Single Polyethylene Oxide Chain from a Single Crystal by a Combination of Atomic Force Microscopy Imaging and Single-Molecule Force Spectroscopy: Toward the Investigation of Molecular Interactions in Their Condensed States. Journal of the American Chemical Society, 2011, 133, 3226-3229.	6.6	122
38	EMSA and Single-Molecule Force Spectroscopy Study of Interactions between Bacillus subtilis Single-Stranded DNA-Binding Protein and Single-Stranded DNA. Langmuir, 2011, 27, 15008-15015.	1.6	23
39	Self-assembly of anisotropic tobacco mosaic virus nanoparticles on gold substrate. Science China Chemistry, 2011, 54, 137-143.	4.2	7
40	AFM IMAGING AND SINGLE-MOLECULE FORCE SPECTROSCOPY STUDIES ON MACROMOLECULAR INTERACTIONS AT SINGLE-MOLECULE LEVEL. Acta Polymerica Sinica, 2011, 011, 913-922.	0.0	3
41	The Nature of the Force-Induced Conformation Transition of dsDNA Studied by Using Single Molecule Force Spectroscopy. Langmuir, 2010, 26, 9491-9496.	1.6	23
42	Pulling Genetic RNA out of Tobacco Mosaic Virus Using Single-Molecule Force Spectroscopy. Journal of the American Chemical Society, 2010, 132, 11036-11038.	6.6	59
43	Single-Molecule Atomic Force Spectroscopy Reveals that DnaD Forms Scaffolds and Enhances Duplex Melting. Journal of Molecular Biology, 2008, 377, 706-714.	2.0	39
44	Dimerization of the Human Papillomavirus Type 16 E2 N Terminus Results in DNA Looping within the Upstream Regulatory Region. Journal of Virology, 2008, 82, 4853-4861.	1.5	16
45	Directional Loading and Stimulation of PcrA Helicase by the Replication Initiator Protein RepD. Journal of Molecular Biology, 2007, 371, 336-348.	2.0	47
46	The Bacillus subtilis Primosomal Protein DnaD Untwists Supercoiled DNA. Journal of Bacteriology, 2006, 188, 5487-5493.	1.0	37
47	Progressing single biomolecule force spectroscopy measurements for the screening of DNA binding agents. Nanotechnology, 2005, 16, 2325-2333.	1.3	19
48	The Bacillus subtilis DnaD and DnaB Proteins Exhibit Different DNA Remodelling Activities. Journal of Molecular Biology, 2005, 351, 66-75.	2.0	60
49	Single molecule mechanochemistry of macromolecules. Progress in Polymer Science, 2003, 28, 1271-1295.	11.8	254
50	Desorption Force per Polystyrene Segment in Water. Macromolecules, 2003, 36, 3779-3782.	2.2	34
51	Supramolecular research by single molecule force spectroscopy. Macromolecular Symposia, 2003, 195, 109-114.	0.4	4
52	Oxygen Bridge Inhibits Conformational Transition of 1,4-Linked Î±-d-Galactose Detected by Single-Molecule Atomic Force Microscopy. Macromolecules, 2002, 35, 871-876.	2.2	31
53	Force Spectroscopy Study on Poly(acrylamide) Derivatives:â€‰ Effects of Substitutes and Buffers on Single-Chain Elasticity. Nano Letters, 2002, 2, 1169-1172.	4.5	52
54	Single-Molecule Force Spectroscopy on Carrageenan by Means of AFM. Macromolecular Rapid Communications, 2001, 22, 1163.	2.0	27

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55	Hydrogen Bonding Governs the Elastic Properties of Poly(vinyl alcohol) in Water:Â Single-Molecule Force Spectroscopic Studies of PVA by AFM. Macromolecules, 2000, 33, 465-469.	2.2	151
56	Single Polymer Chain Elongation of Poly(N-isopropylacrylamide) and Poly(acrylamide) by Atomic Force Microscopy. Journal of Physical Chemistry B, 2000, 104, 10258-10264.	1.2	112
57	Single molecule force spectroscopy on poly(vinyl alcohol) by atomic force microscopy. Macromolecular Rapid Communications, 1998, 19, 609-612.	2.0	48
58	Synthesis and properties of polyester dendrimers bearing carbazole groups in their periphery. Macromolecular Chemistry and Physics, 1998, 199, 1323-1327.	1.1	19
59	Ester Bond Containing Protein: Mechanically Stable Yet Dynamic. Chemical Research in Chinese Universities, 0, , 1.	1.3	0