

Zhijun Hu

List of Publications by Year in descending order

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78
papers

2,680
citations

186209

28
h-index

189801

50
g-index

78
all docs

78
docs citations

78
times ranked

3513
citing authors

#	ARTICLE	IF	CITATIONS
1	Regular arrays of highly ordered ferroelectric polymer nanostructures for non-volatile low-voltage memories. <i>Nature Materials</i> , 2009, 8, 62-67.	13.3	498
2	Nanoscale Control of Polymer Crystallization by Nanoimprint Lithography. <i>Nano Letters</i> , 2005, 5, 1738-1743.	4.5	142
3	High-Throughput Fabrication of Organic Nanowire Devices with Preferential Internal Alignment and Improved Performance. <i>Nano Letters</i> , 2007, 7, 3639-3644.	4.5	89
4	Effect of Nanoconfinement on the Collapse Transition of Responsive Polymer Brushes. <i>Nano Letters</i> , 2008, 8, 3819-3824.	4.5	85
5	Rhythmic Growth-Induced Ring-Banded Spherulites with Radial Periodic Variation of Thicknesses Grown from Poly(μ -caprolactone) Solution with Constant Concentration. <i>Macromolecules</i> , 2008, 41, 7584-7595.	2.2	81
6	Single Crystals of Polythiophene with Different Molecular Conformations Obtained by Tetrahydrofuran Vapor Annealing and Controlling Solvent Evaporation. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7452-7460.	1.2	75
7	Confinement Induced Preferential Orientation of Crystals and Enhancement of Properties in Ferroelectric Polymer Nanowires. <i>ACS Macro Letters</i> , 2013, 2, 535-538.	2.3	72
8	Effects of Casting Solvents on the Formation of Inverted Phase in Block Copolymer Thin Films. <i>Macromolecules</i> , 2004, 37, 6523-6530.	2.2	68
9	Rhythmic Growth-Induced Concentric Ring-Banded Structures in Poly(μ -caprolactone) Solution-Casting Films Obtained at the Slow Solvent Evaporation Rate. <i>Macromolecules</i> , 2007, 40, 4381-4385.	2.2	68
10	The AIEE effect and two-photon absorption (TPA) enhancement induced by polymerization: synthesis of a monomer with ICT and AIE effects and its homopolymer by ATRP and a study of their photophysical properties. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2599.	2.7	67
11	Dilution-Induced Spheres-to-Vesicles Morphological Transition in Micelles from Block Copolymer/Surfactant Complexes. <i>Journal of the American Chemical Society</i> , 2005, 127, 6526-6527.	6.6	65
12	High-Polarizability Organic Ferroelectric Materials Doping for Enhancing the Built-In Electric Field of Perovskite Solar Cells Realizing Efficiency over 24%. <i>Advanced Materials</i> , 2022, 34, e2110482.	11.1	65
13	Initiator-lightened polymers: preparation of end-functionalized polymers by ATRP and their intramolecular charge transfer and aggregation-induced emission. <i>Chemical Communications</i> , 2012, 48, 10234.	2.2	58
14	Control of crystal orientation in soft nanostructures by nanoimprint lithography. <i>Soft Matter</i> , 2010, 6, 21-28.	1.2	57
15	Study on the Origin of Inverted Phase in Drying Solution-Cast Block Copolymer Films. <i>Macromolecules</i> , 2003, 36, 4084-4092.	2.2	53
16	Thickness-Dependent Molecular Chain and Lamellar Crystal Orientation in Ultrathin Poly(di-n-hexylsilane) Films. <i>Langmuir</i> , 2004, 20, 3271-3277.	1.6	53
17	Lateral Nanopatterns in Thin Diblock Copolymer Films Induced by Selective Solvents. <i>Langmuir</i> , 2004, 20, 3805-3808.	1.6	51
18	A molecular ferroelectrics induced electroactive β -phase in solution processed PVDF films for flexible piezoelectric sensors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1532-1543.	2.7	50

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19	Chain Entropy and Wetting Energy Control the Shape of Nanopatterned Polymer Brushes. <i>Macromolecules</i> , 2008, 41, 6859-6863.	2.2	44
20	Structure and Ferroelectric Properties of Nanoimprinted Poly(vinylidene fluoride-trifluoroethylene) Thin Films. <i>ACS Nano</i> , 2014, 8, 3498-3505.	2.2	41
21	Study on the Single Crystals of Poly(3-octylthiophene) Induced by Solvent-Vapor Annealing. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14604-14610.	1.2	38
22	Nanoscale Design of Multifunctional Organic Layers for Low-Power High-Density Memory Devices. <i>ACS Nano</i> , 2014, 8, 3498-3505.	7.3	36
23	Solvent-Assistant Room Temperature Nanoimprinting-Induced Molecular Orientation in Poly(3-hexylthiophene) Nanopillars. <i>Macromolecules</i> , 2013, 46, 8638-8643.	2.2	35
24	Photomechanical bending of linear azobenzene polymer. <i>RSC Advances</i> , 2014, 4, 11776-11781.	1.7	35
25	Novel phthalocyanine and PEG-methacrylates based temperature-responsive polymers for targeted photodynamic therapy. <i>Polymer Chemistry</i> , 2013, 4, 782-788.	1.9	33
26	Ring-Shaped Morphology in Solution-Cast Polystyrene- <i>b</i> -Poly(methyl methacrylate) Block Copolymer Thin Films. <i>Langmuir</i> , 2005, 21, 11870-11877.	1.6	31
27	Scaled down glass transition temperature in confined polymer nanofibers. <i>Nanoscale</i> , 2016, 8, 14950-14955.	2.8	31
28	Guiding the behaviors of human umbilical vein endothelial cells with patterned silk fibroin films. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 79-84.	2.5	30
29	Inverted to Normal Phase Transition in Solution-Cast Polystyrene- <i>b</i> -Poly(methyl methacrylate) Block Copolymer Thin Films. <i>Macromolecules</i> , 2006, 39, 3369-3376.	2.2	27
30	Cyclic Side-Chain Phenylazo Naphthalene Polymers: Enhanced Fluorescence Emission and Surface Relief Grating Formation. <i>Macromolecular Rapid Communications</i> , 2012, 33, 1845-1851.	2.0	27
31	Solution processable poly(vinylidene fluoride)-based ferroelectric polymers for flexible electronics. <i>APL Materials</i> , 2021, 9, .	2.2	27
32	Orientation of lamellar crystals and its correlation with switching behavior in ferroelectric P(VDF-TrFE) ultra-thin films. <i>Polymer</i> , 2014, 55, 970-977.	1.8	26
33	Polydispersity of ethylene sequence length in metallocene ethylene/1-octene copolymers. I. Characterized by thermal-fractionation technique. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 813-821.	2.4	24
34	Two-Step Polarization Switching in Ferroelectric Polymers. <i>Physical Review Letters</i> , 2015, 115, 267601.	2.9	24
35	Boundary Effect of Relief Structure on Crystallization of Diblock Copolymer in Thin Films. <i>Langmuir</i> , 2003, 19, 5563-5566.	1.6	23
36	Photoresponsive superhydrophobic surfaces from one-pot solution spin coating mediated by polydopamine. <i>RSC Advances</i> , 2014, 4, 24973.	1.7	22

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37	Crystallization of Weakly Segregated Poly(styrene- <i>b</i> - μ -caprolactone) Diblock Copolymer in Thin Films. <i>Langmuir</i> , 2003, 19, 10100-10108.	1.6	21
38	Quantitative analysis of the size effect of room temperature nanoimprinted P3HT nanopillar arrays on the photovoltaic performance. <i>Nanoscale</i> , 2015, 7, 11024-11032.	2.8	21
39	Metal complex modified azo polymers for multilevel organic memories. <i>Nanoscale</i> , 2015, 7, 7659-7664.	2.8	21
40	Formation of Vesicles in Block Copolymer-Fluorinated Surfactant Complexes. <i>Langmuir</i> , 2007, 23, 116-122.	1.6	20
41	Controlled Synthesis and Self-Assembly of Dopamine-Containing Copolymer for Honeycomb-Like Porous Hybrid Particles. <i>Macromolecular Rapid Communications</i> , 2014, 35, 1061-1067.	2.0	20
42	Multiferroic Nanopatterned Hybrid Material with Room-Temperature Magnetic Switching of the Electric Polarization. <i>Advanced Materials</i> , 2017, 29, 1604604.	11.1	20
43	The Fabrication of Ordered Bulk Heterojunction Solar Cell by Nanoimprinting Lithography Method Using Patterned Silk Fibroin Mold at Room Temperature. <i>Nanoscale Research Letters</i> , 2015, 10, 491.	3.1	17
44	Conducting Probe Atomic Force Microscopy Investigation of Anisotropic Charge Transport in Solution Cast PBD Single Crystals Induced by an External Field. <i>Journal of Physical Chemistry B</i> , 2004, 108, 19198-19204.	1.2	16
45	Precisely controlled copper(0)-catalyzed one-pot reaction: Concurrent living radical polymerization and click chemistry. <i>Journal of Polymer Science Part A</i> , 2012, 50, 3656-3663.	2.5	16
46	Morphology and Structures of Self-Assembled Symmetric Poly(di-n-alkylsilanes). <i>Langmuir</i> , 2003, 19, 9013-9017.	1.6	15
47	Manipulating multiple order parameters via oxygen vacancies: The case of $E_{u0.5}B_aTi$	1.1	15
48	Phase behavior of side-chain liquid-crystalline elastomers and their precursors containing para-nitro azobenzene. <i>Journal of Applied Polymer Science</i> , 2003, 88, 2275-2279.	1.3	13
49	Long-Range Ordered Crystallization Structure in the Micromolded Diblock Copolymer Thin Film. <i>ACS Macro Letters</i> , 2012, 1, 1007-1011.	2.3	13
50	Morphology and Structure of Poly(di-n-butylsilane) Single Crystals Prepared by Controlling Kinetic Process of Solvent Evaporation. <i>Macromolecules</i> , 2004, 37, 3310-3318.	2.2	12
51	An organic ferroelectric field effect transistor with poly(vinylidene fluoride-co-trifluoroethylene) nanostripes as gate dielectric. <i>Applied Physics Letters</i> , 2014, 105, 113113.	1.5	12
52	Local polarization switching in stressed ferroelectric polymers. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	12
53	Impact of cyclic topology: odd-even glass transition temperatures and fluorescence quantum yields in molecularly-defined macrocycles. <i>Polymer Chemistry</i> , 2017, 8, 2686-2692.	1.9	12
54	Self-polarized Poly(vinylidene fluoride) Ultrathin Film and Its Piezo/Ferroelectric Properties. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29818-29825.	4.0	12

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55	A Smart Cyclic Azobenzene as Pendant Groups on Polymer Chains: Topological Effect of the Cyclization on Thermal and Photoresponsive Properties of the Azobenzene and the Polymer. <i>Chemistry - an Asian Journal</i> , 2013, 8, 1095-1100.	1.7	11
56	The Ferro- to Paraelectric Curie Transition of a Strongly Confined Ferroelectric Polymer. <i>Macromolecules</i> , 2014, 47, 4711-4717.	2.2	11
57	Nanoimprinting-induced molecular orientation in poly(3-hexylthiophene) nanogratings and its extraordinary retention after thermal annealing. <i>Polymer Chemistry</i> , 2017, 8, 2666-2674.	1.9	11
58	Immobilized ionic liquid induced electroactive β -phase in poly(vinylidene fluoride) thin films. <i>Polymer</i> , 2019, 181, 121784.	1.8	11
59	Polymer-Induced Polymer Interfacial Perturbation on the Glass Transition of Supported Low Molecular Weight Polystyrene Thin Films. <i>ACS Macro Letters</i> , 2019, 8, 435-441.	2.3	11
60	Control of β -Sheet Crystal Orientation and Elastic Modulus in Silk Protein by Nanoconfinement. <i>Macromolecules</i> , 2014, 47, 7987-7992.	2.2	10
61	Large Modulation of Charge Transport Anisotropy by Controlling the Alignment of π -Conjugated Stacks in Diketopyrrolopyrrole-Based Polymers. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500153.	1.9	9
62	Enhanced ferroelectric properties of P(VDF-TrFE) thin film on single-layer graphene simply adjusted by crystallization condition. <i>Materials Today Energy</i> , 2021, 20, 100678.	2.5	9
63	The Fabrication of Nanoimprinted P3HT Nanograting by Patterned ETFE Mold at Room Temperature and Its Application for Solar Cell. <i>Nanoscale Research Letters</i> , 2016, 11, 258.	3.1	8
64	Organic ferroelectric/semiconducting nanowire hybrid layer for memory storage. <i>Nanoscale</i> , 2016, 8, 5968-5976.	2.8	8
65	Extremely Stretchable and Tough Piezoelectric Gels for Artificial Electronic Skin. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	8
66	Fabrication of highly ordered/switchable polymer nanogratings for nano-actuators using nanoimprint lithography. <i>Nanotechnology</i> , 2014, 25, 195503.	1.3	5
67	Molecular and Supramolecular Deformations and Disclinations in a Liquid Crystalline Copolyether Thin Films under an Electrostatic Field. <i>Macromolecular Rapid Communications</i> , 2001, 22, 396-400.	2.0	4
68	Controllable Hierarchical Surface Patterns of Supramolecular Hydrogels: Harnessing Buckling Instability by Confinement. <i>Chemistry - A European Journal</i> , 2017, 23, 17444-17448.	1.7	4
69	Thickness-dependent molecular chain and lamellar crystal orientation in ultrathin poly(di-n-hexylsilane) films. <i>Langmuir</i> , 2004, 20, 3271-7.	1.6	4
70	Molecular orientation and stability of poly(3-hexylthiophene) nanogratings affected by the fabricated solvent vapor. <i>RSC Advances</i> , 2019, 9, 28648-28656.	1.7	3
71	Microfluidic fabrication of β -phase enriched poly(vinylidene fluoride) microfibers toward flexible piezoelectric sensor. <i>Journal of Polymer Science</i> , 2022, 60, 1718-1726.	2.0	3
72	Effects of chain ends and densities on the glass transition of polymer thin films probed by linear and cyclic polystyrene. <i>Polymer</i> , 2022, 253, 124986.	1.8	3

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73	Electrostatic-field-induced chain alignment of liquid crystalline copolyether TPP thin films. <i>Polymer</i> , 2001, 42, 4039-4044.	1.8	2
74	Phase structure and transitions in a poly(methyloctadecylsilane) oligomer. <i>Polymer</i> , 2001, 42, 1047-1053.	1.8	2
75	In situ study of nanostructure and morphological development during the crystalâ€“mesophase transition of poly(di-n-hexylsilane) and poly(di-n-butylsilane) by X-ray and hot-stage AFM. <i>Polymer</i> , 2002, 43, 6005-6012.	1.8	2
76	Constrain Effect of Charge Traps in Organic Field-Effect Transistors with Ferroelectric Polymer as a Dielectric Interfacial Layer. <i>ACS Applied Materials & Interfaces</i> , 2022, , .	4.0	1
77	A novel cell structureâ€“based disparity estimation for unsupervised stereo matching. <i>IET Image Processing</i> , 2022, 16, 1678-1693.	1.4	1
78	Field-effect memory transistors based on arrays of nanowires of a ferroelectric polymer. , 2015, , .		0