

# 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	Constrain Effect of Charge Traps in Organic Field-Effect Transistors with Ferroelectric Polymer as a Dielectric Interfacial Layer. ACS Applied Materials & Interfaces, 2022, , .	4.0	1
2	Microfluidic fabrication of $\beta$ -phase enriched poly(vinylidene fluoride) microfibers toward flexible piezoelectric sensor. Journal of Polymer Science, 2022, 60, 1718-1726.	2.0	3
3	High-Polarizability Organic Ferroelectric Materials Doping for Enhancing the Built-in Electric Field of Perovskite Solar Cells Realizing Efficiency over 24%. Advanced Materials, 2022, 34, e2110482.	11.1	65
4	A novel cell structure-based disparity estimation for unsupervised stereo matching. IET Image Processing, 2022, 16, 1678-1693.	1.4	1
5	Extremely Stretchable and Tough Piezoelectric Gels for Artificial Electronic Skin. Advanced Materials Technologies, 2022, 7, .	3.0	8
6	Effects of chain ends and densities on the glass transition of polymer thin films probed by linear and cyclic polystyrene. Polymer, 2022, 253, 124986.	1.8	3
7	Solution processable poly(vinylidene fluoride)-based ferroelectric polymers for flexible electronics. APL Materials, 2021, 9, .	2.2	27
8	Enhanced ferroelectric properties of P(VDF-TrFE) thin film on single-layer graphene simply adjusted by crystallization condition. Materials Today Energy, 2021, 20, 100678.	2.5	9
9	Self-polarized Poly(vinylidene fluoride) Ultrathin Film and Its Piezo/Ferroelectric Properties. ACS Applied Materials & Interfaces, 2020, 12, 29818-29825.	4.0	12
10	Molecular orientation and stability of poly(3-hexylthiophene) nanogratings affected by the fabricated solvent vapor. RSC Advances, 2019, 9, 28648-28656.	1.7	3
11	Immobilized ionic liquid induced electroactive $\beta$ -phase in poly(vinylidene fluoride) thin films. Polymer, 2019, 181, 121784.	1.8	11
12	A molecular ferroelectrics induced electroactive $\beta$ -phase in solution processed PVDF films for flexible piezoelectric sensors. Journal of Materials Chemistry C, 2019, 7, 1532-1543.	2.7	50
13	Polymer-Polymer Interfacial Perturbation on the Glass Transition of Supported Low Molecular Weight Polystyrene Thin Films. ACS Macro Letters, 2019, 8, 435-441.	2.3	11
14	Multiferroic Nanopatterned Hybrid Material with Room-Temperature Magnetic Switching of the Electric Polarization. Advanced Materials, 2017, 29, 1604604.	11.1	20
15	Local polarization switching in stressed ferroelectric polymers. Applied Physics Letters, 2017, 110, .	1.5	12
16	Nanoimprinting-induced molecular orientation in poly(3-hexylthiophene) nanogratings and its extraordinary retention after thermal annealing. Polymer Chemistry, 2017, 8, 2666-2674.	1.9	11
17	Impact of cyclic topology: odd-even glass transition temperatures and fluorescence quantum yields in molecularly-defined macrocycles. Polymer Chemistry, 2017, 8, 2686-2692.	1.9	12
18	Controllable Hierarchical Surface Patterns of Supramolecular Hydrogels: Harnessing Buckling Instability by Confinement. Chemistry - A European Journal, 2017, 23, 17444-17448.	1.7	4

#	ARTICLE	IF	CITATIONS
19	Implementing multiple order parameters via oxygen vacancies: The case of $E_u B_a O_{3-x}$	1.1	15
20	The Fabrication of Nanoimprinted P3HT Nanograting by Patterned ETFE Mold at Room Temperature and Its Application for Solar Cell. Nanoscale Research Letters, 2016, 11, 258.	3.1	8
21	Scaled down glass transition temperature in confined polymer nanofibers. Nanoscale, 2016, 8, 14950-14955.	2.8	31
22	Organic ferroelectric/semiconducting nanowire hybrid layer for memory storage. Nanoscale, 2016, 8, 5968-5976.	2.8	8
23	Two-Step Polarization Switching in Ferroelectric Polymers. Physical Review Letters, 2015, 115, 267601.	2.9	24
24	Large Modulation of Charge Transport Anisotropy by Controlling the Alignment of $\text{TiO}_2$ Stacks in Diketopyrrolopyrrole-Based Polymers. Advanced Materials Interfaces, 2015, 2, 1500153.	1.9	9
25	The Fabrication of Ordered Bulk Heterojunction Solar Cell by Nanoimprinting Lithography Method Using Patterned Silk Fibroin Mold at Room Temperature. Nanoscale Research Letters, 2015, 10, 491.	3.1	17
26	Quantitative analysis of the size effect of room temperature nanoimprinted P3HT nanopillar arrays on the photovoltaic performance. Nanoscale, 2015, 7, 11024-11032.	2.8	21
27	Metal complex modified azo polymers for multilevel organic memories. Nanoscale, 2015, 7, 7659-7664.	2.8	21
28	Field-effect memory transistors based on arrays of nanowires of a ferroelectric polymer. , 2015, , .		0
29	An organic ferroelectric field effect transistor with poly(vinylidene fluoride-co-trifluoroethylene) nanostripes as gate dielectric. Applied Physics Letters, 2014, 105, 113113.	1.5	12
30	Controlled Synthesis and Self-Assembly of Dopamine-Containing Copolymer for Honeycomb-Like Porous Hybrid Particles. Macromolecular Rapid Communications, 2014, 35, 1061-1067.	2.0	20
31	Orientation of lamellar crystals and its correlation with switching behavior in ferroelectric P(VDF-TrFE) ultra-thin films. Polymer, 2014, 55, 970-977.	1.8	26
32	Fabrication of highly ordered/switchable polymer nanogratings for nano-actuators using nanoimprint lithography. Nanotechnology, 2014, 25, 195503.	1.3	5
33	Nanoscale Design of Multifunctional Organic Layers for Low-Power High-Density Memory Devices. ACS Nano, 2014, 8, 3498-3505.	7.3	36
34	Photomechanical bending of linear azobenzene polymer. RSC Advances, 2014, 4, 11776-11781.	1.7	35
35	The Ferro- to Paraelectric Curie Transition of a Strongly Confined Ferroelectric Polymer. Macromolecules, 2014, 47, 4711-4717.	2.2	11
36	Control of $\beta$ -Sheet Crystal Orientation and Elastic Modulus in Silk Protein by Nanoconfinement. Macromolecules, 2014, 47, 7987-7992.	2.2	10

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37	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
38	Photoresponsive superhydrophobic surfaces from one-pot solution spin coating mediated by polydopamine. <i>RSC Advances</i> , 2014, 4, 24973.	1.7	22
39	Solvent-Assistant Room Temperature Nanoimprinting-Induced Molecular Orientation in Poly(3-hexylthiophene) Nanopillars. <i>Macromolecules</i> , 2013, 46, 8638-8643.	2.2	35
40	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
41	Novel phthalocyanine and PEG-methacrylates based temperature-responsive polymers for targeted photodynamic therapy. <i>Polymer Chemistry</i> , 2013, 4, 782-788.	1.9	33
42	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
43	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
44	Structure and Ferroelectric Properties of Nanoimprinted Poly(vinylidene fluoride-trifluoroethylene) (P(VDF-TrFE)). <i>Journal of Applied Physics</i> , 2012, 112, 044101.	2.2	41
45	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
46	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
47	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
48	Long-Range Ordered Crystallization Structure in the Micromolded Diblock Copolymer Thin Film. <i>ACS Macro Letters</i> , 2012, 1, 1007-1011.	2.3	13
49	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
50	Control of crystal orientation in soft nanostructures by nanoimprint lithography. <i>Soft Matter</i> , 2010, 6, 21-28.	1.2	57
51	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
52	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
53	Chain Entropy and Wetting Energy Control the Shape of Nanopatterned Polymer Brushes. <i>Macromolecules</i> , 2008, 41, 6859-6863.	2.2	44
54	Effect of Nanoconfinement on the Collapse Transition of Responsive Polymer Brushes. <i>Nano Letters</i> , 2008, 8, 3819-3824.	4.5	85

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55	Rhythmic Growth-Induced Ring-Banded Spherulites with Radial Periodic Variation of Thicknesses Grown from Poly( $\epsilon$ -caprolactone) Solution with Constant Concentration. <i>Macromolecules</i> , 2008, 41, 7584-7595.	2.2	81
56	Formation of Vesicles in Block Copolymer-Fluorinated Surfactant Complexes. <i>Langmuir</i> , 2007, 23, 116-122.	1.6	20
57	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
58	Rhythmic Growth-Induced Concentric Ring-Banded Structures in Poly( $\epsilon$ -caprolactone) Solution-Casting Films Obtained at the Slow Solvent Evaporation Rate. <i>Macromolecules</i> , 2007, 40, 4381-4385.	2.2	68
59	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
60	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
61	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
62	Nanoscale Control of Polymer Crystallization by Nanoimprint Lithography. <i>Nano Letters</i> , 2005, 5, 1738-1743.	4.5	142
63	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
64	Lateral Nanopatterns in Thin Diblock Copolymer Films Induced by Selective Solvents. <i>Langmuir</i> , 2004, 20, 3805-3808.	1.6	51
65	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
66	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
67	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
68	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
69	Morphology and Structures of Self-Assembled Symmetric Poly(di-n-alkylsilanes). <i>Langmuir</i> , 2003, 19, 9013-9017.	1.6	15
70	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
71	Study on the Origin of Inverted Phase in Drying Solution-Cast Block Copolymer Films. <i>Macromolecules</i> , 2003, 36, 4084-4092.	2.2	53
72	Crystallization of Weakly Segregated Poly(styrene- <i>b</i> - $\epsilon$ -caprolactone) Diblock Copolymer in Thin Films. <i>Langmuir</i> , 2003, 19, 10100-10108.	1.6	21

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73	Boundary Effect of Relief Structure on Crystallization of Diblock Copolymer in Thin Films. <i>Langmuir</i> , 2003, 19, 5563-5566.	1.6	23
74	Polydispersity of ethylene sequence length in metallocene ethylene/?-olefin copolymers. I. Characterized by thermal-fractionation technique. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 813-821.	2.4	24
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	Electrostatic-field-induced chain alignment of liquid crystalline copolyether TPP thin films. <i>Polymer</i> , 2001, 42, 4039-4044.	1.8	2
77	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
78	Phase structure and transitions in a poly(methyloctadecylsilane) oligomer. <i>Polymer</i> , 2001, 42, 1047-1053.	1.8	2