Shanju Zhang

List of Publications by Year
in descending order

54 papers	1,659 citations	331670 21 h-index	289244 40 g-index
55 all docs	55 docs citations	55 times ranked	2118 citing authors

#	Article	IF	Citations
1	Polymer transcrystallinity induced by carbon nanotubes. Polymer, 2008, 49, 1356-1364.	3.8	207
2	Macroscopic Fibers of Wellâ€Aligned Carbon Nanotubes by Wet Spinning. Small, 2008, 4, 1217-1222.	10.0	157
3	Carbon Nanotubes as Liquid Crystals. Small, 2008, 4, 1270-1283.	10.0	136
4	Solid-state spun fibers and yarns from 1-mm long carbon nanotube forests synthesized by water-assisted chemical vapor deposition. Journal of Materials Science, 2008, 43, 4356-4362.	3.7	96
5	Microwave Makes Carbon Nanotubes Less Defective. ACS Nano, 2010, 4, 1716-1722.	14.6	86
6	Nanocomposites of Carbon Nanotube Fibers Prepared by Polymer Crystallization. ACS Applied Materials & Interfaces, 2010, 2, 1642-1647.	8.0	82
7	Mesogenicity Drives Fractionation in Lyotropic Aqueous Suspensions of Multiwall Carbon Nanotubes. Nano Letters, 2006, 6, 568-572.	9.1	77
8	Directed Assembly of Hybrid Nanomaterials and Nanocomposites. Advanced Materials, 2018, 30, e1705794.	21.0	74
9	Ordering in a Droplet of an Aqueous Suspension of Single-Wall Carbon Nanotubes on a Solid Substrate. Langmuir, 2010, 26, 2107-2112.	3.5	54
10	Interfacial crystallization of isotactic polypropylene surrounding macroscopic carbon nanotube and graphene fibers. Polymer, 2016, 91, 136-145.	3.8	53
11	Surfaceâ€Induced Polymer Crystallization in High Volume Fraction Aligned Carbon Nanotubeâ€“Polymer Composites. Macromolecular Chemistry and Physics, 2010, 211, 1003-1011.	2.2	41
12	Liquid Crystalline Order and Magnetocrystalline Anisotropy in Magnetically Doped Semiconducting ZnO Nanowires. ACS Nano, 2011, 5, 8357-8364.	14.6	38
13	Graphene-Induced Oriented Interfacial Microstructures in Single Fiber Polymer Composites. ACS Applied Materials & Interfaces, 2015, 7, 13620-13626.	8.0	38
14	Directed Selfâ€Assembly of Hybrid Oxide/Polymer Core/Shell Nanowires with Transport Optimized Morphology for Photovoltaics. Advanced Materials, 2012, 24, 82-87.	21.0	37
15	In Situ Study of Dynamic Conformational Transitions of a Water-Soluble Poly(3-hexylthiophene) Derivative by Surfactant Complexation. Journal of Physical Chemistry B, 2012, 116, 12887-12894.	2.6	29
16	Lyotropic Self-Assembly of High-Aspect-Ratio Semiconductor Nanowires of Single-Crystal ZnO. Langmuir, 2011, 27, 11616-11621.	3.5	28
17	Synthesis and solid state structures of macromolecular cylindrical brushes with varying side chain length. Polymer, 2004, 45, 4009-4015.	3.8	27
18	Lyotropic Hexagonal Ordering in Aqueous Media by Conjugated Hairy-Rod Supramolecules. Macromolecules, 2010, 43, 7549-7555.	4.8	25

#	Article	IF	Citations
19	Dynamic Interactions between Poly(3-hexylthiophene) and Single-Walled Carbon Nanotubes in Marginal Solvent. Journal of Physical Chemistry B, 2014, 118, 6038-6046.	2.6	25
20	Nematic Order Drives Macroscopic Patterns of Graphene Oxide in Drying Drops. Langmuir, 2014, 30, 14631-14637.	3.5	24
21	Polymerâ€infiltrated Aligned Carbon Nanotube Fibers by in situ Polymerization. Macromolecular Rapid Communications, 2009, 30, 1936-1939.	3.9	22
22	Surface coatings of PEOâ€“PPOâ€“PEO block copolymers on native and polystyrene-coated silicon wafers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 246, 81-89.	4.7	21
23	Disclinations and Their Interactions in Thin Films of Side-Chain Liquid Crystalline Polymers. Macromolecules, 2004, 37, 390-396.	4.8	19
24	Hydrogen-Bonding-Directed Ordered Assembly of Carboxylated Poly(3-Alkylthiophene)s. ACS Omega, 2017, 2, 8526-8535.	3.5	19
25	Multi-Scale Assembly of Polythiophene-Surfactant Supramolecular Complexes for Charge Transport Anisotropy. Macromolecules, 2017, 50, 1047-1055.	4.8	18
26	Shaping Polymer Particles by Carbon Nanotubes. Macromolecular Rapid Communications, 2008, 29, 557-561.	3.9	17
27	Î³â€Form Transcrystals of Poly(propylene) Induced by Individual Carbon Nanotubes. Macromolecular Chemistry and Physics, 2010, 211, 1348-1354.	2.2	16
28	Synthesis and thermotropic liquid crystalline behaviour of novel poly(aryl ether ketone)s with a lateral methoxy group. Macromolecular Chemistry and Physics, 2000, 201, 649-655.	2.2	15
29	Effect of surface-modified zinc oxide nanowires on solution crystallization kinetics of poly(3-hexylthiophene). Polymer, 2014, 55, 2008-2013.	3.8	13
30	Sustainable and Repulpable Barrier Coatings for Fiber-Based Materials for Food Packaging: A Review. Frontiers in Materials, 0, 9, .	2.4	13
31	The synthesis and thermotropic liquid crystalline behavior of the novel poly(aryl ether ketone)s containing chloro-side group. Polymer Bulletin, 1997, 38, 621-625.	3.3	11
32	Nature of disclination cores in liquid crystals. Liquid Crystals, 2005, 32, 69-75.	2.2	10
33	Optical Microscopy Study for Director Patterns around Disclinations in Side-Chain Liquid Crystalline Polymer Films. Journal of Physical Chemistry B, 2005, 109, 13195-13199.	2.6	10
34	Fluorineâ€containing linear block terpolymers: Synthesis and selfâ€assembly in solution. Journal of Polymer Science Part A, 2011, 49, 414-422.	2.3	9
35	Anisotropic coreâ€“shell nanocomposites by direct covalent attachment of a side-functionalized poly(3-hexylthiophene) onto ZnO nanowires. Polymer, 2013, 54, 7004-7008.	3.8	9
36	Ringâ€Banded Spherulitic Crystals of Poly(3â€butylthiophene) via Controlled Solvent Evaporation. Macromolecular Chemistry and Physics, 2018, 219, 1800204.	2.2	9

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37	Ordered Nanostructures of Carbon Nanotubeâ€“Polymer Composites from Lyotropic Liquid Crystal Templating. Macromolecular Chemistry and Physics, 2018, 219, 1800197.	2.2	9
38	Effect of crystal-disrupting chlorohydroquinone on the first-order transitions of poly(aryl ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702	3.9	8
39	Atomic Force Microscopy Study for Supermolecular Microstructures in Side-Chain Liquid Crystalline Polymer Films. Langmuir, 2005, 21, 3539-3543.	3.5	8
40	Solution-Based Large-Area Assembly of Coaxial Inorganicâ€“Organic Hybrid Nanowires for Fast Ambipolar Charge Transport. ACS Applied Materials & Interfaces, 2017, 9, 16397-16403.	8.0	8
41	Supramolecular Assembly of Oriented Spherulitic Crystals of Conjugated Polymers Surrounding Carbon Nanotube Fibers. Macromolecular Rapid Communications, 2019, 40, 1900098.	3.9	8
42	Shear-Induced Spiral-Like Morphology of a Main-Chain Liquid Crystalline Poly(aryl ether ketone). Macromolecular Rapid Communications, 2001, 22, 1168.	3.9	7
43	Homoepitaxial Crystallization in Films of a Thermotropic Liquid Crystalline Chloro-Poly(aryl ether) Tj ETQq1 1 0.784314 rgBT /Overlock	2.2	6
44	Ordering-induced micro-bands in thin films of a main-chain liquid crystalline chloro-poly(aryl ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.8	6
45	Phase Separation and Organisation of Colloidal Spheres Suspended in Sheared Lyotropic Liquid-Crystalline Polymers. Macromolecular Rapid Communications, 2005, 26, 911-914.	3.9	6
46	Preliminary communication - The synthesis and thermotropic liquid crystalline behaviour of novel main chain poly(aryl ether ketone)s containing a lateral phenyl group. Liquid Crystals, 1998, 24, 311-314.	2.2	5
47	Thermally switchable thin films of an ABC triblock copolymer of poly(n-butyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (m 2011, 257, 9673-9677.	6.1	5
48	Self-assembly of supramolecular complexes of charged conjugated polymers and imidazolium-based ionic liquid crystals. Giant, 2022, 9, 100088.	5.1	5
49	Amyloid-intercalated graphene oxide membranes for enhanced nanofiltration. Carbon Trends, 2021, 5, 100135.	3.0	4
50	Formation of a metastable phase induced by a liquid crystalline phase in a novel chloropoly(aryl ether) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.9	3
51	Chromatic Conductive Polymer Nanocomposites of Poly (p-Phenylene Ethynylene)s and Single-Walled Carbon Nanotubes. Journal of Composites Science, 2021, 5, 158.	3.0	2
52	Photonic liquid crystals of graphene oxide for fast membrane nanofiltration. Carbon Trends, 2022, 7, 100150.	3.0	2
53	Title is missing!. Journal of Materials Science Letters, 1997, 16, 1813-1815.	0.5	1
54	Dynamic Gelation of Conductive Polymer Nanocomposites Consisting of Poly(3-hexylthiophene) and ZnO Nanowires. Journal of Composites Science, 2021, 5, 199.	3.0	1