

Juan Peng

List of Publications by Year in descending order

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86
papers

2,780
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186265

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89
times ranked

3626
citing authors

#	ARTICLE	IF	CITATIONS
1	Lead-Free Halide Perovskite Nanocrystals: Crystal Structures, Synthesis, Stabilities, and Optical Properties. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1030-1046.	13.8	320
2	The influencing factors on the macroporous formation in polymer films by water droplet templating. <i>Polymer</i> , 2004, 45, 447-452.	3.8	254
3	Morphology Development of Ultrathin Symmetric Diblock Copolymer Film via Solvent Vapor Treatment. <i>Macromolecules</i> , 2004, 37, 7301-7307.	4.8	199
4	Bottlebrush polymers: From controlled synthesis, self-assembly, properties to applications. <i>Progress in Polymer Science</i> , 2021, 116, 101387.	24.7	138
5	Nanostructured Gold Films for SERS by Block Copolymer-Templated Galvanic Displacement Reactions. <i>Nano Letters</i> , 2009, 9, 2384-2389.	9.1	133
6	Morphologies in solvent-annealed thin films of symmetric diblock copolymer. <i>Journal of Chemical Physics</i> , 2006, 125, 064702.	3.0	94
7	Solvent-induced microphase separation in diblock copolymer thin films with reversibly switchable morphology. <i>Journal of Chemical Physics</i> , 2004, 120, 11163-11170.	3.0	89
8	Resolving Optical and Catalytic Activities in Thermoresponsive Nanoparticles by Permanent Ligation with Temperature-Sensitive Polymers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11910-11917.	13.8	80
9	Ordered porous polymer films via phase separation in humidity environment. <i>Polymer</i> , 2005, 46, 5334-5340.	3.8	69
10	Formation of Regular Hole Pattern in Polymer Films. <i>Macromolecular Chemistry and Physics</i> , 2003, 204, 125-130.	2.2	65
11	Development of Nanodomain and Fractal Morphologies in Solvent Annealed Block Copolymer Thin Films. <i>Macromolecular Rapid Communications</i> , 2007, 28, 1422-1428.	3.9	53
12	Strongly-ligated perovskite quantum dots with precisely controlled dimensions and architectures for white light-emitting diodes. <i>Nano Energy</i> , 2020, 77, 105043.	16.0	52
13	Controlling the size of nanostructures in thin films via blending of block copolymers and homopolymers. <i>Journal of Chemical Physics</i> , 2005, 122, 114706.	3.0	49
14	One step route to the fabrication of arrays of TiO ₂ nanobowls via a complementary block copolymer templating and sol-gel process. <i>Soft Matter</i> , 2008, 4, 515-521.	2.7	46
15	Solvent vapor induced dewetting in diblock copolymer thin films. <i>Polymer</i> , 2005, 46, 5767-5772.	3.8	43
16	Morphology change of asymmetric diblock copolymer micellar films during solvent annealing. <i>Polymer</i> , 2007, 48, 2434-2443.	3.8	40
17	Microphase Separation of Block Copolymer Thin Films. <i>Macromolecular Rapid Communications</i> , 2010, 31, 591-608.	3.9	37
18	Rapid Capillary-Assisted Solution Printing of Perovskite Nanowire Arrays Enables Scalable Production of Photodetectors. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14942-14949.	13.8	36

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19	An Optical Waveguide Study on the Nanopore Formation in Block Copolymer/Homopolymer Thin Films by Selective Solvent Swelling. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15381-15388.	2.6	35
20	Simultaneous blue, green, and red emission from diblock copolymer micellar films: a new approach to white-light emission. <i>Chemical Communications</i> , 2009, , 6723.	4.1	35
21	Unravelling the Correlation between Charge Mobility and Cocrystallization in Rod-Block Copolymers for High-Performance Field-Effect Transistors. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8644-8648.	13.8	35
22	Unconventional Route to Uniform Hollow Semiconducting Nanoparticles with Tailorable Dimensions, Compositions, Surface Chemistry, and Near-Infrared Absorption. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12946-12951.	13.8	34
23	Pattern formation in a confined polymer film induced by a temperature gradient. <i>Polymer</i> , 2004, 45, 8013-8017.	3.8	33
24	Toward high efficiency organic photovoltaic devices with enhanced thermal stability utilizing P3HT-b-P3PHT block copolymer additives. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18432-18443.	10.3	31
25	Enhanced white-light emission from multiple fluorophores encapsulated in a single layer of diblock copolymer micelles. <i>Chemical Communications</i> , 2011, 47, 2787.	4.1	30
26	Chemical Bonding-Directed Hierarchical Assembly of Nanoribbon-Shaped Nanocomposites of Gold Nanorods and Poly(3-hexylthiophene). <i>Angewandte Chemie - International Edition</i> , 2016, 55, 8686-8690.	13.8	30
27	Reversibly strain-tunable elastomeric photonic crystals. <i>Chemical Physics Letters</i> , 2004, 390, 285-289.	2.6	29
28	Insights into poly(3-hexylthiophene)- <i>b</i> -poly(ethylene oxide) block copolymer: Synthesis and solvent-induced structure formation in thin films. <i>Journal of Polymer Science Part A</i> , 2012, 50, 5060-5067.	2.3	29
29	Tailoring Phase Transition in Poly(3-hexylselenophene) Thin Films and Correlating Their Crystalline Polymorphs with Charge Transport Properties for Organic Field-Effect Transistors. <i>Macromolecules</i> , 2017, 50, 9674-9682.	4.8	29
30	The SiaA/B/C/D signaling network regulates biofilm formation in <i>Pseudomonas aeruginosa</i> . <i>EMBO Journal</i> , 2020, 39, e103412.	7.8	29
31	Crystallization and Microphase Morphology of Side-Chain Cross-Linkable Poly(3-hexylthiophene)- <i>b</i> -poly[3-(6-hydroxy)hexylthiophene] Diblock Copolymers. <i>Macromolecules</i> , 2016, 49, 287-297.	4.8	28
32	Solvent Induced Sphere Development in Symmetric Diblock Copolymer Thin Films. <i>Macromolecular Rapid Communications</i> , 2005, 26, 738-743.	3.9	26
33	Fabrication and Photocatalytic Activities of Morphology-Controlled Titania Nanoobject Arrays by Block Copolymer Templates. <i>Macromolecular Rapid Communications</i> , 2007, 28, 2055-2061.	3.9	25
34	Recent advances in conjugated polythiophene-based rod-rod block copolymers: From morphology control to optoelectronic applications. <i>Giant</i> , 2020, 4, 100039.	5.1	25
35	Multistimuli-Responsive Luminescence Switching of Pyrazine Derivative Based Donor-Acceptor-Donor Luminophores. <i>Chemistry - an Asian Journal</i> , 2016, 11, 285-293.	3.3	24
36	Dewetting of Thin Polystyrene Films under Confinement. <i>Langmuir</i> , 2007, 23, 2326-2329.	3.5	23

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37	Bleifreie Halogenidâ€Perowskitâ€Nanokristalle: Kristallstrukturen, Synthese, StabilitÄten und optische Eigenschaften. <i>Angewandte Chemie</i> , 2020, 132, 1042-1059.	2.0	22
38	Hierarchical Self-Assembly of Conjugated Block Copolymers and Semiconducting Nanorods into One-Dimensional Nanocomposites. <i>Macromolecules</i> , 2018, 51, 8833-8843.	4.8	21
39	Two-Dimensional Arrays of Strings of TiO ₂ Nanoparticles via Cooperative Block Copolymer Self-Assembly. <i>Chemistry of Materials</i> , 2008, 20, 1200-1202.	6.7	18
40	Transforming Polymorphs <i>via</i> Meniscus-Assisted Solution-Shearing Conjugated Polymers for Organic Field-Effect Transistors. <i>ACS Nano</i> , 2022, 16, 11194-11203.	14.6	18
41	Chemicalâ€Bondingâ€Directed Hierarchical Assembly of Nanoribbonâ€Shaped Nanocomposites of Gold Nanorods and Poly(3â€hexylthiophene). <i>Angewandte Chemie</i> , 2016, 128, 8828-8832.	2.0	17
42	Pattern formation in polymer films under the mask. <i>Polymer</i> , 2003, 44, 2379-2384.	3.8	16
43	A Polymer Composite Film with Reversible Responsive Behaviors. <i>Macromolecular Rapid Communications</i> , 2006, 27, 136-141.	3.9	16
44	Visible light-driven superoxide generation by conjugated polymers for organic synthesis. <i>Nano Research</i> , 2018, 11, 1099-1108.	10.4	16
45	Effect of Block Sequence in All-Conjugated Triblock Copoly(3-alkylthiophene)s on Control of the Crystallization and Field-Effect Mobility. <i>Macromolecules</i> , 2020, 53, 5775-5786.	4.8	16
46	Tailoring Cocrystallization and Microphase Separation in Rodâ€Rod Block Copolymers for Field-Effect Transistors. <i>Macromolecules</i> , 2021, 54, 4571-4581.	4.8	15
47	Cocrystallization-Promoted Charge Mobility in All-Conjugated Diblock Copolymers for High-Performance Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 58094-58104.	8.0	15
48	Morphology control of poly(3-hexylthiophene)-b-poly(ethylene oxide) block copolymer by solvent blending. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 544-551.	2.1	14
49	Dipicolylamine Functionalized Polyfluorene Based Gel with Lower Critical Solution Temperature: Preparation, Characterization, and Application. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 8872-8879.	8.0	14
50	Largeâ€Scale Rapid Positioning of Hierarchical Assemblies of Conjugated Polymers via Meniscusâ€Assisted Selfâ€Assembly. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11751-11757.	13.8	14
51	Controlling morphology and crystalline structure in poly(3-hexylselenophene) solutions during aging. <i>RSC Advances</i> , 2015, 5, 107970-107976.	3.6	13
52	Hydrogen-bonding-directed helical nanofibers in a polythiophene-based all-conjugated diblock copolymer. <i>Soft Matter</i> , 2018, 14, 5906-5912.	2.7	13
53	Unravelling the Correlation between Microphase Separation and Cocrystallization in Thiophene-Selenophene Block Copolymers for Organic Field-Effect Transistors. <i>Macromolecules</i> , 2020, 53, 10245-10255.	4.8	13
54	Transition from polythiophene-based one-dimensional nanofibers to spherical clusters in ultrafiltration. <i>Soft Matter</i> , 2012, 8, 9981.	2.7	12

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55	Synthesis, characterization, and solution structure of all-conjugated polyelectrolyte diblock copoly(3-hexylthiophene)s. <i>RSC Advances</i> , 2014, 4, 19646.	3.6	12
56	Controlling the morphology and crystallization of a thiophene-based all-conjugated diblock copolymer by solvent blending. <i>Soft Matter</i> , 2017, 13, 5261-5268.	2.7	11
57	Transformation from Nanofibers to Nanoribbons in Poly(3-hexylthiophene) Solution by Adding Alkylthiols. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800048.	3.9	11
58	Formation of nanofibers in Poly(9,9-dioctylfluorene) toluene solutions during aging. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 633-639.	2.1	10
59	Simultaneous light emissions from two different types of fluorophores in diblock copolymer micellar films. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	9
60	From Nanodot to Nanowire: Hybrid Au/Titania Nanoarrays by Block Copolymer Templates. <i>Macromolecular Rapid Communications</i> , 2009, 30, 1857-1861.	3.9	9
61	Rapid Route to Polar Solvent-Directed Growth of Perovskite Nanowires. <i>ACS Applied Nano Materials</i> , 2019, 2, 7910-7915.	5.0	9
62	High-k titanium-aluminum oxide dielectric films prepared by inorganic-organic hybrid solution. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 71, 458-463.	2.4	8
63	Structural basis for diguanylate cyclase activation by its binding partner in <i>Pseudomonas aeruginosa</i> . <i>ELife</i> , 2021, 10, .	6.0	8
64	Resolving Optical and Catalytic Activities in Thermoresponsive Nanoparticles by Permanent Ligation with Temperature-sensitive Polymers. <i>Angewandte Chemie</i> , 2019, 131, 12036-12043.	2.0	7
65	Iron facilitates the RetS-GacR cascade to inversely regulate protease IV expression via the sigma factor PvdS in <i>Pseudomonas aeruginosa</i> . <i>Environmental Microbiology</i> , 2020, 22, 5402-5413.	3.8	7
66	Genomic characterisation of clinical <i>Pseudomonas aeruginosa</i> isolate PAG5 with a multidrug-resistant megaplasmid from China. <i>Journal of Global Antimicrobial Resistance</i> , 2020, 21, 130-131.	2.2	7
67	One-dimensional hairy CNT/polymer/Au nanocomposites via ligating with amphiphilic crosslinkable block copolymers. <i>Giant</i> , 2021, 5, 100048.	5.1	7
68	Semiconducting Spaghetti-like Organic-Inorganic Nanojunctions via Sequential Self-Assembly of Conjugated Polymers and Quantum Dots. <i>Chemistry of Materials</i> , 2022, 34, 847-853.	6.7	6
69	Direct patterning of polymer-based photo luminescent structures with a mask. <i>Thin Solid Films</i> , 2004, 450, 329-333.	1.8	5
70	Formation of star-like and linear nanofibers via controlled crystallization of poly(3-dodecylthiophene). <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1268-1272.	2.1	5
71	Rapid Meniscus-Assisted Solution-Printing of Conjugated Block Copolymers for Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	5
72	Unfolding the cocrystallization-charge transport correlation in all-conjugated triblock copolymers via meticulous molecular engineering for organic field-effect transistors. <i>Nano Energy</i> , 2022, 100, 107489.	16.0	5

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73	Photocatalytic printing of inorganic nanopatterns via poly(styrene-block-carbosilane) copolymer thin films on titania substrates. <i>Chemical Communications</i> , 2009, , 1091.	4.1	4
74	Unravelling the Correlation between Charge Mobility and Cocrystallization in Rod-Block Copolymers for High-Performance Field-Effect Transistors. <i>Angewandte Chemie</i> , 2018, 130, 8780-8784.	2.0	4
75	Large-Scale Rapid Positioning of Hierarchical Assemblies of Conjugated Polymers via Meniscus-Assisted Self-Assembly. <i>Angewandte Chemie</i> , 2021, 133, 11857-11863.	2.0	4
76	Correlating crystalline structure with charge mobility in conjugated statistical copolymers for field-effect transistors. <i>Polymer</i> , 2021, 227, 123854.	3.8	4
77	Preparation and Characterization of Highly Stable and Aqueous Dispersion of Conjugated Polyelectrolyte/Single-Walled Carbon Nanotube Nanocomposites. <i>Acta Chimica Sinica</i> , 2018, 76, 453.	1.4	4
78	The Formation of Ordered Nanoholes in Binary, Chemically Similar, Symmetric Diblock Copolymer Blend Films. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1181-1185.	3.9	2
79	A Simple Route to Hierarchical Rings of Diblock Copolymer Micelles. <i>Macromolecular Rapid Communications</i> , 2020, 41, 1900525.	3.9	2
80	The Influencing Factors on the Ring-shaped Morphology in PI-P2VP Diblock Copolymer. <i>Acta Chimica Sinica</i> , 2013, 71, 1141.	1.4	2
81	Rapid Capillary-Assisted Solution Printing of Perovskite Nanowire Arrays Enables Scalable Production of Photodetectors. <i>Angewandte Chemie</i> , 2020, 132, 15052-15059.	2.0	1
82	Self-Assembly of Conjugated Polymers Into Ring Structures by Breath Figures. <i>Science of Advanced Materials</i> , 2015, 7, 848-854.	0.7	1
83	Morphologies in Acetone-Annealed Polystyrene-Poly(methyl methacrylate) Diblock Copolymer Thin Films. <i>Acta Chimica Sinica</i> , 2012, 70, 1371.	1.4	1
84	Chemical-Bonding-Directed Hierarchical Assembly of Nanoribbon-Shaped Nanocomposites of Gold Nanorods and Poly(3-hexylthiophene) (<i>Angew. Chem.</i> 30/2016). <i>Angewandte Chemie</i> , 2016, 128, 8912-8912.	2.0	0
85	A Special Issue on Functional Polymeric Nanomaterials. <i>Science of Advanced Materials</i> , 2015, 7, 827-829.	0.7	0
86	Rapid Meniscus-Assisted Solution-Printing of Conjugated Block Copolymers for Field-Effect Transistors (<i>Adv. Funct. Mater.</i> 14/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	0