Jiun-Tai Chen

List of Publications by Citations

122 papers	2,386 citations	23 h-index	45 g-index
132 ext. papers	2,583 ext. citations	5.4 avg, IF	5.05 L-index

#	Paper	IF	Citations
122	Enhanced mobility of confined polymers. *Nature Materials*, **2007**, 6, 961-5	27	254
121	Wetting Transition in Cylindrical Alumina Nanopores with Polymer Melts. *Nano Letters*, **2006**, 6, 1075-1079	12.5	210
120	Conjugated polymer nanostructures for organic solar cell applications. *Polymer Chemistry*, **2011**, 2, 2707	4.9	176
119	Cylindrically Confined Diblock Copolymers. *Macromolecules*, **2009**, 42, 9082-9088	5.5	163
118	Instabilities in nanoporous media. *Nano Letters*, **2007**, 7, 183-7	11.5	119
117	Highly Ordered Nanoporous Thin Films from Cleavable Polystyrene-block-poly(ethylene oxide). *Advanced Materials*, **2007**, 19, 1571-1576	24	112
116	Amorphous Carbon Nanotubes with Tunable Properties via Template Wetting. *Advanced Functional Materials*, **2006**, 16, 1476-1480	15.6	93
115	Synthesis and Thermal and Photoluminescence Properties of Liquid Crystalline Polyacetylenes Containing 4-Alkanyloxyphenyl trans-4-Alkylcyclohexanoate Side Groups. *Macromolecules*, **2002**, 35, 1180-1189	5.5	62
114	Solvent-annealing-induced nanowetting in templates: towards tailored polymer nanostructures. *Macromolecular Rapid Communications*, **2013**, 34, 348-54	4.8	60
113	A simple route for the preparation of mesoporous nanostructures using block copolymers. *ACS Nano*, **2009**, 3, 2827-33	16.7	52
112	Thin Film Instabilities in Blends under Cylindrical Confinement. *Macromolecular Rapid Communications*, **2009**, 30, 377-83	4.8	50
111	Effect of nonsolvent on the formation of polymer nanomaterials in the nanopores of anodic aluminum oxide templates. *Macromolecular Rapid Communications*, **2012**, 33, 1381-7	4.8	46
110	Fabrication of Polymer Nanopeapods in the Nanopores of Anodic Aluminum Oxide Templates Using a Double-Solution Wetting Method. *Macromolecules*, **2014**, 47, 5227-5235	5.5	43
109	Hierarchical Structures by Wetting Porous Templates with Electrospun Polymer Fibers.. *ACS Macro Letters*, **2012**, 1, 41-46	6.6	39
108	Fabrication of hierarchical structures by wetting porous templates with polymer microspheres. *Langmuir*, **2009**, 25, 4331-5	4	36
107	Templated nanostructured PS-b-PEO nanotubes. *Journal of Polymer Science, Part B: Polymer Physics*, **2007**, 45, 2912-2917	2.6	33
106	Microwave-annealing-induced nanowetting: a rapid and facile method for fabrication of one-dimensional polymer nanomaterials. *RSC Advances*, **2015**, 5, 27443-27448	3.7	30

105	Rayleigh-Instability-Driven Morphology Transformation by Thermally Annealing Electrospun Polymer Fibers on Substrates. *Macromolecules*, **2012**, 45, 5816-5822	5.5	30
104	Transformation of polymer nanofibers to nanospheres driven by the Rayleigh instability. *ACS Applied Materials & Interfaces*, **2013**, 5, 3134-42	9.5	29
103	Three-dimensional block copolymer nanostructures by the solvent-annealing-induced wetting in anodic aluminum oxide templates. *Macromolecular Rapid Communications*, **2014**, 35, 1598-605	4.8	28
102	Rayleigh instability in polymer thin films coated in the nanopores of anodic aluminum oxide templates. *Langmuir*, **2014**, 30, 387-93	4	27
101	Annealing effect on electrospun polymer fibers and their transformation into polymer microspheres. *Macromolecular Rapid Communications*, **2012**, 33, 343-9	4.8	26
100	Effect of thermal annealing on the surface properties of electrospun polymer fibers. *Macromolecular Rapid Communications*, **2014**, 35, 360-6	4.8	25
99	Curved polymer nanodiscs by wetting nanopores of anodic aluminum oxide templates with polymer nanospheres. *Nanoscale*, **2014**, 6, 1340-6	7.7	23
98	Effects of Thermal Annealing and Solvent Annealing on the Morphologies and Properties of Poly(3-hexylthiophene) Nanowires. *Macromolecular Chemistry and Physics*, **2015**, 216, 59-68	2.6	23
97	Zwitterionic polymer brush grafting on anodic aluminum oxide membranes by surface-initiated atom transfer radical polymerization. *Polymer Chemistry*, **2017**, 8, 2309-2316	4.9	21
96	Porous polymer nanostructures fabricated by the surface-induced phase separation of polymer solutions in anodic aluminum oxide templates. *Langmuir*, **2013**, 29, 9972-8	4	21
95	Fabrication of Core–Shell Polymer Nanospheres in the Nanopores of Anodic Aluminum Oxide Templates Using Polymer Blend Solutions. *ACS Macro Letters*, **2015**, 4, 717-720	6.6	20
94	Electrogenerated chemiluminescence of soliton waves in conjugated polymers. *Journal of the American Chemical Society*, **2009**, 131, 14166-7	16.4	19
93	Hybridization of CMRP and ATRP: A Direct Living Chain Extension from Poly(vinyl acetate) to Poly(methyl methacrylate) and Polystyrene. *Macromolecules*, **2015**, 48, 6832-6838	5.5	17
92	Synthesis and characterisation of liquid crystal molecules based on thieno [3,2-b] thiophene and their application in organic field-effect transistors. *Liquid Crystals*, **2017**, 44, 557-565	2.3	17
91	New soluble poly(2,3-diphenylphenylene vinylene) derivatives for light-emitting diodes. *Thin Solid Films*, **2005**, 477, 73-80	2.2	17
90	Electrogenerated chemiluminescence of conjugated polymer films from patterned electrodes. *Journal of the American Chemical Society*, **2011**, 133, 11994-2000	16.4	16
89	Blending Homopolymers for Controlling the Morphology Transitions of Block Copolymer Nanorods Confined in Cylindrical Nanopores. *ACS Applied Materials & Interfaces*, **2017**, 9, 21010-21016	9.5	14
88	Fabrication of WO3 electrochromic devices using electro-exploding wire techniques and spray coating. *Solar Energy Materials and Solar Cells*, **2021**, 223, 110960	6.4	14

87	Selective Template Wetting Routes to Hierarchical Polymer Films: Polymer Nanotubes from Phase-Separated Films via Solvent Annealing. *Langmuir*, **2016**, 32, 2110-6	4	12
86	Poly(2,3-diphenyl-1,4-phenylenevinylene) (DP-PPV) derivatives: Synthesis, properties, and their applications in polymer light-emitting diodes. *Polymer*, **2013**, 54, 4045-4058	3.9	12
85	Solvent-Induced Dewetting on Curved Substrates: Fabrication of Porous Polymer Nanotubes by Anodic Aluminum Oxide Templates. *Macromolecules*, **2015**, 48, 6241-6250	5.5	12
84	Wetting in nanopores of cylindrical anodic aluminum oxide templates: Production of gradient polymer nanorod arrays on large-area curved surfaces. *European Polymer Journal*, **2015**, 63, 141-148	5.2	12
83	Plateau-Rayleigh Instability Morphology Evolution (PRIME): From Electrospun Core-Shell Polymer Fibers to Polymer Microbowls. *Macromolecular Rapid Communications*, **2017**, 38, 1600689	4.8	11
82	Rayleigh-instability-driven morphology transformation of electrospun polymer fibers imaged by in situ optical microscopy and stimulated Raman scattering microscopy. *RSC Advances*, **2014**, 4, 51884-51892	3.7	11
81	Effect of the polymer concentration on the Rayleigh-instability-type transformation in polymer thin films coated in the nanopores of anodic aluminum oxide templates. *Langmuir*, **2015**, 31, 2569-75	4	11
80	Exploring Ternary Organic Solar Cells for the Improved Efficiency of 16.5% with the Compatible Nonacyclic Carbazole-Based Nonfullerene Acceptors as the Third Component. *ACS Applied Energy Materials*, **2021**, 4, 2847-2855	6.1	11
79	Solvent On-Film Annealing (SOFA): Morphological Evolution of Polymer Particles on Polymer Films via Solvent Vapor Annealing. *Macromolecules*, **2017**, 50, 5114-5121	5.5	10
78	Morphology control of three-dimensional nanostructures in porous templates using lamella-forming block copolymers and solvent vapors. *Soft Matter*, **2016**, 12, 8087-8092	3.6	10
77	From Electrospun Polymer Core–Shell Fibers to Polymer Hemispheres and Spheres: Two Types of Transformation Processes and Tearing Films with Linearly Arranged Cavities. *Macromolecules*, **2017**, 50, 9024-9031	5.5	10
76	Synthesis of cyclopentyloxy terphenyl liquid crystals with negative dielectric anisotropy. *Liquid Crystals*, **2015**, 42, 104-112	2.3	9
75	Interplay of Nanoscale, Hybrid P3HT/ZTO Interface on Optoelectronics and Photovoltaic Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 33212-33219	9.5	9
74	Asymmetric Polymer Particles with Anisotropic Curvatures by Annealing Polystyrene Microspheres on Poly(vinyl alcohol) Films. *Macromolecular Rapid Communications*, **2016**, 37, 1825-1831	4.8	9
73	Microwave-annealing-induced nanowetting of block copolymers in cylindrical nanopores. *Soft Matter*, **2017**, 14, 35-41	3.6	9
72	Thermal-Annealing-Induced Self-Stretching: Fabrication of Anisotropic Polymer Particles on Polymer Films. *Langmuir*, **2017**, 33, 12300-12305	4	8
71	The Effect of Solvent Vapor Annealing on Drug-Loaded Electrospun Polymer Fibers. *Pharmaceutics*, **2020**, 12,	6.4	8
70	The synthesis of anthradithiophene-based liquid crystals and their applications in organic thin film transistors. *Journal of Materials Chemistry C*, **2016**, 4, 2284-2288	7.1	8

69	Multifunctional nanoparticles with controllable dimensions and tripled orthogonal reactivity. *Nanoscale*, **2017**, 9, 14787-14791	7.7	8
68	Fabrication of multicomponent polymer nanostructures containing PMMA shells and encapsulated PS nanospheres in the nanopores of anodic aluminum oxide templates. *Macromolecular Rapid Communications*, **2015**, 36, 439-46	4.8	8
67	Light-Induced Nanowetting: Erasable and Rewritable Polymer Nanoarrays via Solid-to-Liquid Transitions. *Nano Letters*, **2020**, 20, 5853-5859	11.5	8
66	Solvent-Induced Shape Recovery of Anisotropic Polymer Particles Prepared by a Modified Thermal Stretching Method. *Langmuir*, **2018**, 34, 8326-8332	4	8
65	On-Film Annealing: A Simple Method to Fabricate Heterogeneous Polymer Surfaces, Porous Films, and Hemispheres. *ACS Macro Letters*, **2015**, 4, 721-724	6.6	7
64	Intelligent Environmental Sensing: Fabrication of Switchable, Reusable, and Highly Sensitive Gas Sensors with Spiropyran-Grafted Anodic Aluminum Oxide Templates. *Journal of Physical Chemistry C*, **2020**, 124, 11870-11876	3.8	7
63	Interplay of Template Constraints and Microphase Separation in Polymeric Nano-Objects Replicated from Novel Modulated and Interconnected Nanoporous Anodic Alumina. *ACS Applied Nano Materials*, **2018**, 1, 200-208	5.6	7
62	Confinement Effects on the Optical Properties and Chain Conformations of Poly(9,9-di-n-octylfluorene-alt-benzothiadiazole) Nanotubes. *Macromolecular Chemistry and Physics*, **2016**, 217, 2074-2080	2.6	7
61	Controlled Assembly of Polymer-Tethered Gold Nanorods via a Rayleigh-Instability-Driven Transformation: Implications for Biomedical Applications. *ACS Applied Nano Materials*, **2019**, 2, 2587-2592	5.6	6
60	Nanopressing: toward tailored polymer microstructures and nanostructures. *Macromolecular Rapid Communications*, **2014**, 35, 84-90	4.8	6
59	Synthesis of alkyl-branched main chain copolyimides and their effect on the pretilt angles of liquid crystal alignment. *Liquid Crystals*, **2002**, 29, 907-913	2.3	6
58	Fabrication, Morphology Control, and Electroless Metal Deposition of Electrospun ABS Fibers. *Macromolecular Materials and Engineering*, **2016**, 301, 895-901	3.9	6
57	Reversible morphology control of three-dimensional block copolymer nanostructures by the solvent-annealing-induced wetting in anodic aluminum oxide templates. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2016**, 65, 695-701	3	6
56	Asymmetries in Porous Membranes: Fabrication of Anodic Aluminum Oxide Membranes with Double-Sized Nanopores and Controlled Surface Properties. *Journal of Physical Chemistry C*, **2019**, 123, 14540-14546	3.8	5
55	Laser-Assisted Nanowetting: Selective Fabrication of Polymer/Gold Nanorod Arrays Using Anodic Aluminum Oxide Templates. *Macromolecular Rapid Communications*, **2020**, 41, e2000035	4.8	5
54	Anthradithiophene-based liquid crystal molecules: High carrier mobilities enhanced by rubbed polyimides for the application in organic field-effect transistors. *Organic Electronics*, **2018**, 57, 82-88	3.5	5
53	Hierarchical hybrid nanostructures: controlled assembly of polymer-encapsulated gold nanoparticles via a Rayleigh-instability-driven transformation under cylindrical confinement. *RSC Advances*, **2016**, 6, 54539-54543	3.7	5
52	Competition Between Effects of Pore Sizes and Annealing Solvents on the Morphology Manipulation of 3D Block Copolymer Nanostructures Using Anodic Aluminum Oxide Templates. *Macromolecular Chemistry and Physics*, **2016**, 217, 1376-1383	2.6	5

51	Fabrication and Thermal Insulation Properties of Bamboo-Shaped Polymer Fibers by Selective Solvent Vapor Annealing. *Macromolecular Rapid Communications*, **2018**, 39, e1800424	4.8	5
50	Controlled self-assemblies of polystyrene-block-polydimethylsiloxane micelles in cylindrical confinement through a micelle solution wetting method and Rayleigh-instability-driven transformation. *Soft Matter*, **2017**, 13, 5428-5436	3.6	5
49	Porous Polyimide and Carbon Nanotubes: Solvent Vapor Induced Transformation in the Nanochannels of Anodic Aluminum Oxide Templates. *Macromolecular Materials and Engineering*, **2019**, 304, 1800700	3.9	4
48	Exceptionally low thermal conductivity of poly(3-hexylthiophene) single nanowires. *RSC Advances*, **2015**, 5, 90847-90851	3.7	4
47	Preparation and thermal dissipation of hollow carbon fibers from electrospun polystyrene/poly(amic acid) carboxylate salt core-shell fibers. *European Polymer Journal*, **2020**, 130, 109648	5.2	4
46	Alignment-Improved and Diameter-Reduced Electrospun Polymer Fibers via the Hot-Stretching Process. *Macromolecular Materials and Engineering*, **2020**, 305, 1900637	3.9	4
45	Three-dimensional nanomasks using block copolymers confined in the nanopores of anodic aluminum oxide templates. *Materials Today Communications*, **2015**, 3, 52-56	2.5	4
44	Effects on Oxidation Waves of Conjugated Polymers by Studying Photoluminescence Quenching and Electrogenerated Chemiluminescence. *Journal of Physical Chemistry C*, **2011**, 115, 10256-10263	3.8	4
43	Electrogenerated chemiluminescence of pure polymer films and polymer blends. *Macromolecular Rapid Communications*, **2011**, 32, 598-603	4.8	4
42	Fabrication of Electrospun Polymer Fibers with Nonspherical Cross-Sections Using a Nanopressing Technique. *Macromolecular Rapid Communications*, **2016**, 37, 239-45	4.8	4
41	Bamboo-like nanostructures prepared using template-based wetting methods: Molecular arrangements of polyimide and carbon tubes in cylindrical nanopores. *Polymer*, **2019**, 185, 121979	3.9	4
40	Hierarchical Polymer Structures Using Templates and the Modified Breath Figure Method. *Langmuir* , **2018**, 34, 7472-7478	4	4
39	Sunny-Side-Up Egg-Shaped Structures: Surface Modification To Form Anisotropic Polymer Particles Driven by the Plateau Rayleigh Instability as Fluorescence Manipulation Platforms. *Macromolecules* , **2019**, 52, 1601-1608	5.5	3
38	Dewetting of Swollen Poly(3-hexylthiophene) Films during Spin-Coating Processes: Implications for Device Fabrication. *ACS Applied Nano Materials*, **2018**, 1, 2021-2028	5.6	3
37	Dewetting of polymer thin films on modified curved surfaces: preparation of polymer nanoparticles with asymmetric shapes by anodic aluminum oxide templates. *Soft Matter*, **2018**, 14, 2772-2776	3.6	3
36	Two-Step Solvent On-Film Annealing (2-SOFA) Method: Fabrication of Anisotropic Polymer Particles and Implications for Colloidal Self-Assembly. *ACS Applied Nano Materials*, **2018**, 1, 4557-4565	5.6	3
35	Structural and Optical Identification of Planar Side-Chain Stacking P3HT Nanowires. *Macromolecules*,	5.5	3
34	Hybrid "Kill and Release" Antibacterial Cellulose Papers Obtained via Surface-Initiated Atom Transfer Radical Polymerization.. *ACS Applied Bio Materials*, **2021**, 4, 7893-7902	4.1	3

33	Rayleigh-Instability-Induced Transformation for Confined Polystyrene Nanotubes Prepared Using the Solvent-Vapor-Induced Wetting Method. *Macromolecular Materials and Engineering*, **2020**, 305, 1900465	3.9	3
32	Recent advances of carbazole-based nonfullerene acceptors: Molecular design, optoelectronic properties, and photovoltaic performance in organic solar cells. *Journal of the Chinese Chemical Society*, **2021**, 68, 1186-1196	1.5	3
31	Elucidating End-Group Modifications of Carbazole-Based Nonfullerene Acceptors in Indoor Applications for Achieving a PCE of over 20. *ACS Applied Materials & Interfaces*, **2021**, 13, 26247-26255	9.5	3
30	Shaping the Light: The Key Factors Affecting the Photophysical Properties of Fluorescent Polymer Nanostructures. *Macromolecular Rapid Communications*, **2016**, 37, 2037-2044	4.8	3
29	Setting Foot in Asymmetric Wetting Environments: Fabrication of Mushroom-Like Anisotropic Polymer Nanoparticles. *Journal of Physical Chemistry C*, **2016**, 120, 28867-28874	3.8	3
28	Curved block copolymer nanodiscs: structure transformations in cylindrical nanopores using the nonsolvent-assisted template wetting method. *Soft Matter*, **2019**, 15, 8201-8209	3.6	3
27	Morphology transformations of electrospun polymer fibers annealed on polymer films with thickness-controlled growth rates of undulation. *Polymer*, **2018**, 134, 181-186	3.9	3
26	From Block Copolymer Nanotubes to Nanospheres: Nonsolvent-Induced Morphology Transformation Using Porous Templates. *Langmuir*, **2018**, 34, 14388-14394	4	3
25	Selective solvent-induced reconstruction in confined space: one-dimensional mesoporous block copolymer structures in cylindrical nanopores. *Polymer Chemistry*, **2017**, 8, 3399-3404	4.9	2
24	Radial Linear Polymer Patterns Driven by the Marangoni Instability and Lateral Phase Separation for the Formation of Nanoscale Perforation Lines. *ACS Applied Nano Materials*, **2019**, 2, 3253-3261	5.6	2
23	Reproducible and Bendable SERS Substrates with Tailored Wettability Using Block Copolymers and Anodic Aluminum Oxide Templates. *Macromolecular Rapid Communications*, **2020**, 41, e2000088	4.8	2
22	Orientation Preferences of Interchain Stackings for Poly(3-hexylthiophene) Nanowires Prepared Using Template-Based Wetting Methods. *Macromolecular Chemistry and Physics*, **2018**, 219, 1800078	2.6	2
21	Rapid separation of gold nanorods in multilayer aqueous systems via centrifugation. *RSC Advances*, **2016**, 6, 90786-90791	3.7	2
20	Block Copolymer Micelle Nanotubes by the Solvent-Annealing-Induced Nanowetting in Anodic Aluminum Oxide Templates. *Macromolecular Chemistry and Physics*, **2015**, 216, 2154-2160	2.6	2
19	Snake Tracks in Polymer Land: Wavy Polymer Structures via Selective Solvent Vapor Annealing. *Langmuir*, **2020**, 36, 9780-9785	4	2
18	Breaking embedded electrospun fibers (BEEF): Fabrication of polymer spheres encapsulated in polymer films. *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 2463-2470	2.6	2
17	Laser-Induced NanoKneading (LINK): Deformation of Patterned Azopolymer Nanopillar Arrays via Photo-Fluidization. *Macromolecular Rapid Communications*, **2021**, 42, e2000723	4.8	2
16	Achieving area-selective atomic layer deposition with fluorinated self-assembled monolayers. *Journal of Materials Chemistry C*,	7.1	2

15	Hierarchical and Spiral Polymer Structures: Direct Electrospinning on Porous Anodic Aluminum Oxide Templates. *Macromolecular Chemistry and Physics*, **2019**, 220, 1900169	2.6	1
14	Polymer Nanostructures Using Nanoporous Templates **2018**, 165-203		1
13	Sequential Selective Solvent On-Film Annealing: Fabrication of Monolayers of Ordered Anisotropic Polymer Particles. *ACS Applied Materials & Interfaces*, **2020**, 12, 35731-35739	9.5	1
12	Reversible and tunable morphologies of amphiphilic block copolymer nanorods confined in nanopores: Roles of annealing solvents. *Polymer*, **2021**, 228, 123859	3.9	1
11	Crystallization of Poly(methyl methacrylate) Stereocomplexes under Cylindrical Nanoconfinement. *Macromolecules*, **2021**, 54, 2001-2010	5.5	1
10	Reconsidering terms for mechanisms of polymer growth: the step-growth and chain-growth dilemma. *Polymer Chemistry*,	4.9	1
9	Block copolymer micelles confined in cylindrical nanopores: Effects of annealing solvents and hybridization. *Reactive and Functional Polymers*, **2020**, 150, 104534	4.6	0
8	Fabrication and Thermal Dissipation Properties of Carbon Nanofibers Derived from Electrospun Poly(Amic Acid) Carboxylate Salt Nanofibers. *Macromolecular Materials and Engineering*, **2020**, 305, 1900519	3.9	0
7	Selective Light-Induced Nanowetting: Hierarchical Polymer Nanoarrays with Erasability and Rewritability via Photofluidization. *Journal of Physical Chemistry C*, **2021**, 125, 15424-15432	3.8	0
6	Photoswitchable Composite Polymer Electrolytes Using Spiropyran-Immobilized Nanoporous Templates. *Chemistry - A European Journal*, **2021**, 27, 14981-14988	4.8	0
5	Macromol. Rapid Commun. 5/2015. *Macromolecular Rapid Communications*, **2015**, 36, 500-500	4.8	
4	Macromol. Rapid Commun. 18/2014. *Macromolecular Rapid Communications*, **2014**, 35, 1632-1632	4.8	
3	Laser-assisted nanowetting (LAN): Hierarchical Nanocomposites containing polymer/gold nanorods on breath figure films. *Polymer*, **2021**, 221, 123636	3.9	
2	Three-dimensional thermal annealing: An unconventional method to fabricate monodisperse polymer nanoparticles from polymer films. *Journal of Polymer Science, Part B: Polymer Physics*, **2016**, 54, 2471-2475	2.6	
1	Rayleigh-instability-induced transformation for confined polystyrene-grafted gold nanoparticles in anodic aluminum oxide templates. *Journal of the Chinese Chemical Society*, **2021**, 68, 2045	1.5	