Christopher Li

List of Publications by Year in descending order

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50276 62596 7,269 140 46 80 citations h-index g-index papers 141 141 141 7156 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Multilayered Solid Polymer Electrolytes with Sacrificial Coating for Suppressing Lithium Dendrite Growth. ACS Applied Materials & Samp; Interfaces, 2022, 14, 484-491.	8.0	4
2	MC3T3 E1 cell response to mineralized nanofiber shish kebab structures. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 1601-1610.	3.4	2
3	Interpenetrating Network-Based Hybrid Solid and Gel Electrolytes for High Voltage Lithium Metal Batteries. ACS Applied Energy Materials, 2021, 4, 5639-5648.	5.1	11
4	Biomimetic Mineralization of Hierarchical Nanofiber Shish-Kebabs in a Concentrated Apatite-Forming Solution. ACS Applied Bio Materials, 2021, 4, 571-580.	4.6	9
5	Adaptable Multivalent Hairy Inorganic Nanoparticles. Journal of the American Chemical Society, 2021, 143, 16919-16924.	13.7	17
6	Decoupling the Modulus and Toughness Effects of Solid Polymer Electrolytes in All-Solid-State Lithium Batteries. ACS Applied Energy Materials, 2021, 4, 14093-14101.	5.1	4
7	Directed Nanoparticle Assembly through Polymer Crystallization. Chemistry - A European Journal, 2020, 26, 349-361.	3.3	30
8	Structure and Morphology of Poly(lactic acid) Stereocomplex Nanofiber Shish Kebabs. ACS Macro Letters, 2020, 9, 103-107.	4.8	33
9	Brownian Diffusion of Individual Janus Nanoparticles at Water/Oil Interfaces. ACS Nano, 2020, 14, 10095-10103.	14.6	22
10	Confined Crystal Melting in Edgeless Poly(l-lactic acid) Crystalsomes. ACS Macro Letters, 2020, 9, 1773-1778.	4.8	12
11	Engineering long-circulating nanomaterial delivery systems. Current Opinion in Biotechnology, 2020, 66, 131-139.	6.6	24
12	Designing Comb-Chain Crosslinker-Based Solid Polymer Electrolytes for Additive-Free All-Solid-State Lithium Metal Batteries. Nano Letters, 2020, 20, 6914-6921.	9.1	35
13	Anisotropic ion transport in 2D polymer single crystal-based solid polymer electrolytes. Giant, 2020, 2, 100021.	5.1	18
14	The rise of semicrystalline polymers and why are they still interesting. Polymer, 2020, 211, 123150.	3.8	30
15	Frustrated Layered Self-Assembly Induced Superlattice from Two-Dimensional Nanosheets. Nano Letters, 2020, 20, 8647-8653.	9.1	15
16	Size-dependent soft epitaxial crystallization in the formation of blend nanofiber shish kebabs. Polymer, 2020, 202, 122644.	3.8	8
17	Towards shape-translational symmetry incommensurate polymer crystals. Polymer, 2020, 195, 122407.	3.8	13
18	Fabrication of 2D Block Copolymer Brushes via a Polymerâ€Singleâ€Crystalâ€Assistedâ€Graftingâ€ŧo Method. Macromolecular Rapid Communications, 2020, 41, e2000228.	3.9	7

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19	Frontispiece: Directed Nanoparticle Assembly through Polymer Crystallization. Chemistry - A European Journal, 2020, 26, .	3.3	O
20	Dendrite-free, wide temperature range lithium metal batteries enabled by hybrid network ionic liquids. Energy Storage Materials, 2020, 29, 273-280.	18.0	55
21	Breaking translational symmetry via polymer chain overcrowding in molecular bottlebrush crystallization. Nature Communications, 2020, 11, 2152.	12.8	29
22	A novel de-coupling solid polymer electrolyte via semi-interpenetrating network for lithium metal battery. Energy Storage Materials, 2020, 29, 42-51.	18.0	51
23	Anomalous Ostwald Ripening Enables 2D Polymer Crystals via Fast Evaporation. Physical Review Letters, 2019, 123, 207801.	7.8	18
24	Polymerized Ionic Liquid-Containing Interpenetrating Network Solid Polymer Electrolytes for All-Solid-State Lithium Metal Batteries. ACS Applied Materials & Samp; Interfaces, 2019, 11, 34904-34912.	8.0	43
25	Decorin Regulates the Aggrecan Network Integrity and Biomechanical Functions of Cartilage Extracellular Matrix. ACS Nano, 2019, 13, 11320-11333.	14.6	67
26	Morphology control in semicrystalline solid polymer electrolytes for lithium batteries. Molecular Systems Design and Engineering, 2019, 4, 793-803.	3.4	18
27	Glass transition temperature of cyclic polystyrene and the linear counterpart contamination effect. Polymer, 2019, 170, 198-203.	3.8	45
28	2D MXene-containing polymer electrolytes for all-solid-state lithium metal batteries. Nanoscale Advances, 2019, 1, 395-402.	4.6	117
29	Effect of Fullerene Volume Fraction on Twoâ€Dimensional Crystalâ€Constructed Supramolecular Liquid Crystals. Chemistry - an Asian Journal, 2019, 14, 125-129.	3.3	10
30	Plasticized Hybrid Network Solid Polymer Electrolytes for Lithiumâ€Metal Batteries. Advanced Materials Interfaces, 2019, 6, 1801445.	3.7	33
31	Electrospun poly(εâ€caprolactone) nanofiber shish kebabs mimic mineralized bony surface features. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 1141-1149.	3.4	15
32	Structure and Morphology of Poly(vinylidene fluoride) Nanoscrolls. ACS Macro Letters, 2018, 7, 75-79.	4.8	17
33	Confined and Directed Polymer Crystallization at Curved Liquid/Liquid Interface. Macromolecular Chemistry and Physics, 2018, 219, 1700455.	2.2	19
34	Impacts of maturation on the micromechanics of the meniscus extracellular matrix. Journal of Biomechanics, 2018, 72, 252-257.	2.1	14
35	Nanostructured, Highly Anisotropic, and Mechanically Robust Polymer Electrolyte Membranes via Holographic Polymerization. Advanced Materials Interfaces, 2018, 5, 1700861.	3.7	13
36	Polyethylene nano crystalsomes formed at a curved liquid/liquid interface. Nanoscale, 2018, 10, 268-276.	5.6	25

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37	Polymer crystallization at liquidâ€liquid interface. Polymer Crystallization, 2018, 1, e10045.	0.8	8
38	Terraced and Smooth Gradient Polymer Brushes via a Polymer Singleâ€Crystal Assisted Grafting‶o Method. Angewandte Chemie - International Edition, 2018, 57, 15758-15761.	13.8	24
39	Terraced and Smooth Gradient Polymer Brushes via a Polymer Singleâ€Crystal Assisted Grafting‶o Method. Angewandte Chemie, 2018, 130, 15984-15987.	2.0	5
40	Velcro-mimicking surface based on polymer loop brushes. Nanoscale, 2018, 10, 18269-18274.	5.6	11
41	Structure of Negative Spherulites of Even–Even Polyamides. Introducing a Complex Multicomponent Spherulite Architecture. Macromolecules, 2018, 51, 5138-5156.	4.8	18
42	Block copolymer crystalsomes withÂan ultrathin shell to extend blood circulation time. Nature Communications, 2018, 9, 3005.	12.8	61
43	Dense and Dynamic Polyethylene Glycol Shells Cloak Nanoparticles from Uptake by Liver Endothelial Cells for Long Blood Circulation. ACS Nano, 2018, 12, 10130-10141.	14.6	153
44	Unique Supramolecular Liquidâ€Crystal Phases with Different Twoâ€Dimensional Crystal Layers. Angewandte Chemie, 2018, 130, 13642-13646.	2.0	2
45	Unique Supramolecular Liquidâ€Crystal Phases with Different Twoâ€Dimensional Crystal Layers. Angewandte Chemie - International Edition, 2018, 57, 13454-13458.	13.8	16
46	Highâ€Capacity Allâ€Solidâ€State Sodium Metal Battery with Hybrid Polymer Electrolytes. Advanced Energy Materials, 2018, 8, 1801885.	19.5	87
47	A Review of Nanofiber Shish Kebabs and Their Potential in Creating Effective Biomimetic Bone Scaffolds. Regenerative Engineering and Translational Medicine, 2018, 4, 107-119.	2.9	13
48	Hierarchically ordered polymer nanofiber shish kebabs as a bone scaffold material. Journal of Biomedical Materials Research - Part A, 2017, 105, 1786-1798.	4.0	33
49	Temperature-Induced Shape Changing of Thermosensitive Binary Heterografted Linear Molecular Brushes between Extended Wormlike and Stable Globular Conformations. Macromolecules, 2017, 50, 1645-1656.	4.8	36
50	Light-triggered unfolding of single linear molecular bottlebrushes from compact globular to wormlike nano-objects in water. Polymer Chemistry, 2017, 8, 2702-2712.	3.9	31
51	Poly(butylene terephthalate)-b-poly(ethylene oxide) alternating multiblock copolymers: Synthesis and application in solid polymer electrolytes. Polymer, 2017, 128, 188-199.	3.8	25
52	Precisely Assembled Cyclic Gold Nanoparticle Frames by 2D Polymer Singleâ€Crystal Templating. Angewandte Chemie - International Edition, 2017, 56, 13645-13649.	13.8	49
53	Precisely Assembled Cyclic Gold Nanoparticle Frames by 2D Polymer Singleâ€Crystal Templating. Angewandte Chemie, 2017, 129, 13833-13837.	2.0	9
54	Correlating Electrode–Electrolyte Interface and Battery Performance in Hybrid Solid Polymer Electrolyteâ€Based Lithium Metal Batteries. Advanced Energy Materials, 2017, 7, 1701231.	19.5	118

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55	Innentitelbild: Precisely Assembled Cyclic Gold Nanoparticle Frames by 2D Polymer Single rystal Templating (Angew. Chem. 44/2017). Angewandte Chemie, 2017, 129, 13720-13720.	2.0	O
56	Active metasurface devices based on correlated perovskites. , 2016, , .		0
57	Responsive Shape Change of Sub-5 nm Thin, Janus Polymer Nanoplates. ACS Macro Letters, 2016, 5, 651-655.	4.8	49
58	Structure and crystallization behavior of poly(ethylene oxide)/Ti3C2Tx MXene nanocomposites. Polymer, 2016, 102, 119-126.	3.8	77
59	Polymerized ionic liquid diblock copolymer as solid-state electrolyte and separator in lithium-ion battery. Polymer, 2016, 101, 311-318.	3.8	43
60	A nearly quantitative synthetic approach towards monocyclic polystyrenes and the solvent, concentration and molecular weight effect on cyclic yield. Polymer, 2016, 101, 379-387.	3.8	15
61	Correlated Perovskites as a New Platform for Superâ∈Broadbandâ∈Tunable Photonics. Advanced Materials, 2016, 28, 9117-9125.	21.0	72
62	Nanoparticle-Decorated Polymer Single Crystals for Nanoscale Materials. ACS Symposium Series, 2016, , 79-90.	0.5	1
63	Towards controlled polymer brushes via a self-assembly-assisted-grafting-to approach. Nature Communications, 2016, 7, 11119.	12.8	81
64	Highly robust crystalsome via directed polymer crystallization at curved liquid/liquid interface. Nature Communications, 2016, 7, 10599.	12.8	63
65	A biodegradable, all-polymer micromotor for gas sensing applications. Journal of Materials Chemistry C, 2016, 4, 5945-5952.	5.5	44
66	Hybrid Electrolytes with Controlled Network Structures for Lithium Metal Batteries. Advanced Materials, 2015, 27, 5995-6001.	21.0	297
67	Anisotropic ion transport in nanostructured solid polymer electrolytes. RSC Advances, 2015, 5, 48793-48810.	3.6	59
68	Nanoparticle mediated micromotor motion. Nanoscale, 2015, 7, 4949-4955.	5.6	18
69	Single-walled carbon nanotube nanoring induces polymer crystallization at liquid/liquid interface. Polymer, 2015, 59, 1-9.	3.8	39
70	Anisotropic Ion Transport in a Poly(ethylene oxide)–LiClO ₄ Solid State Electrolyte Templated by Graphene Oxide. Macromolecules, 2015, 48, 4503-4510.	4.8	56
71	One-step fabrication of multifunctional micromotors. Nanoscale, 2015, 7, 13918-13923.	5.6	50
72	Water nanocondensation on polymer single crystal-decorated buckypaper. Polymer, 2015, 70, 271-277.	3.8	7

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73	Stepwise assembly of a cross-linked free-standing nanoparticle sheet with controllable shape. Nanoscale, 2015, 7, 11033-11039.	5.6	12
74	Janus hybrid hairy nanoparticles. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1620-1640.	2.1	31
75	Polymer electrolyte membranes with exceptional conductivity anisotropy via holographic polymerization. Journal of Power Sources, 2014, 271, 597-603.	7.8	16
76	Hairy particles: Theory, synthesis, behavior, and applications. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 1581-1582.	2.1	9
77	Lightâ€directed mesoscale phase separation via holographic polymerization. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 232-250.	2.1	36
78	One-step formation of responsive "dumbbell―nanoparticle dimers via quasi-two-dimensional polymer single crystals. Nanoscale, 2014, 6, 4551-4554.	5.6	18
79	A micromotor based on polymer single crystals and nanoparticles: toward functional versatility. Nanoscale, 2014, 6, 8601-8605.	5.6	56
80	Janus Polymer Single Crystal Nanosheet via Evaporative Crystallization. ACS Macro Letters, 2014, 3, 675-678.	4.8	48
81	Single-Walled Carbon Nanotube-Induced Orthogonal Growth of Polyethylene Single Crystals at a Curved Liquid/Liquid Interface. ACS Macro Letters, 2014, 3, 175-179.	4.8	26
82	How Does Nanoscale Crystalline Structure Affect Ion Transport in Solid Polymer Electrolytes?. Macromolecules, 2014, 47, 3978-3986.	4.8	163
83	Mimicking Bone Nanostructure by Combining Block Copolymer Self-Assembly and 1D Crystal Nucleation. ACS Nano, 2013, 7, 8251-8257.	14.6	85
84	Carbon Nanotubeâ€Directed Polytetrafluoroethylene Crystal Growth via Initiated Chemical Vapor Deposition. Macromolecular Rapid Communications, 2013, 34, 251-256.	3.9	34
85	Electric Field-Induced, Reversible Lotus-to-Rose Transition in Nanohybrid Shish Kebab Paper with Hierarchical Roughness. ACS Applied Materials & Samp; Interfaces, 2013, 5, 12089-12098.	8.0	35
86	Holographically patterned soft matter: light directed mesoscale phase separation. Current Opinion in Chemical Engineering, 2013, 2, 63-70.	7.8	6
87	Structure and Morphology Control in Crystalline Polymer–Carbon Nanotube Nanocomposites. Macromolecules, 2013, 46, 2877-2891.	4.8	197
88	Directed Self-Assembly of Nanoparticles for Nanomotors. ACS Nano, 2013, 7, 5192-5198.	14.6	167
89	Layer with reduced viscosity at water-oil interfaces probed by fluorescence correlation spectroscopy. Physical Review E, 2013, 87, 012403.	2.1	14
90	Directed self-assembly of hetero-nanoparticles using a polymer single crystal template. Nanoscale, 2012, 4, 7641.	5.6	22

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91	Polymer-single-crystal@nanoparticle nanosandwich for surface enhanced Raman spectroscopy. Journal of Materials Chemistry, 2012, 22, 15526.	6.7	38
92	Polymer Single Crystal As Magnetically Recoverable Support for Nanocatalysts. Journal of Physical Chemistry Letters, 2012, 3, 1346-1350.	4.6	74
93	Thermoresponsive Amphiphilic Janus Silica Nanoparticles via Combining "Polymer Single-Crystal Templating―and "Grafting-from―Methods. Macromolecules, 2012, 45, 8780-8789.	4.8	56
94	Tuning Ion Conducting Pathways Using Holographic Polymerization. Nano Letters, 2012, 12, 310-314.	9.1	46
95	Reduced Graphene Oxide-Induced Polyethylene Crystallization in Solution and Nanocomposites. Macromolecules, 2012, 45, 993-1000.	4.8	164
96	Polymer Single Crystal-Decorated Superhydrophobic Buckypaper with Controlled Wetting and Conductivity. ACS Nano, 2012, 6, 1204-1213.	14.6	48
97	Tuning periodicity of polymer-decorated carbon nanotubes. Science China Chemistry, 2012, 55, 802-807.	8.2	8
98	Bending single-walled carbon nanotubes into nanorings using a Pickering emulsion-based process. Carbon, 2012, 50, 1769-1775.	10.3	43
99	Janus nanoparticle dimers and chains via polymer single crystals. Journal of Materials Chemistry, 2011, 21, 13155.	6.7	35
100	Permeable nanoconfinement of hierarchical block copolymer volume gratings. Soft Matter, 2011, 7, 4729.	2.7	8
101	Probing Diffusion of Single Nanoparticles at Water–Oil Interfaces. Small, 2011, 7, 3502-3507.	10.0	38
102	Polymer Single Crystal Templated Janus Nanoparticles. Macromolecular Rapid Communications, 2010, 31, 169-175.	3.9	51
103	Janus gold nanoparticle with bicompartment polymer brushes templated by polymer single crystals. Polymer, 2010, 51, 4814-4822.	3.8	41
104	Crystalline Block Copolymer Decorated, Hierarchically Ordered Polymer Nanofibers. Macromolecules, 2010, 43, 9918-9927.	4.8	58
105	Homo- and Hetero-Particle Clusters Formed by Janus Nanoparticles with Bicompartment Polymer Brushes. Macromolecules, 2010, 43, 9234-9238.	4.8	83
106	Carbon nanotube induced polymer crystallization: The formation of nanohybrid shish–kebabs. Polymer, 2009, 50, 953-965.	3.8	234
107	Thermosensitive polymer brushâ€supported 4â€ <i>N,N</i> â€dialkylaminopyridine on silica particles as catalyst for hydrolysis of an activated ester in aqueous buffers: Comparison of activity with linear polymerâ€supported version and effect of LCST transition. Journal of Polymer Science Part A, 2009, 47, 2853-2870.	2.3	43
108	Polymer single crystal meets nanoparticles. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 2436-2440.	2.1	73

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109	Alternating patterns on single-walled carbon nanotubes. Nature Nanotechnology, 2009, 4, 358-362.	31.5	129
110	Programmable Nanoparticle Assembly via Polymer Single Crystals. Macromolecules, 2009, 42, 9394-9399.	4.8	56
111	Hairy particleâ€supported 4â€∢i>N, <i>N</i> à€dialkylaminopyridine: An efficient and recyclable nucleophilic organocatalyst. Journal of Polymer Science Part A, 2008, 46, 3438-3446.	2.3	45
112	Amphiphilic Janus Gold Nanoparticles via Combining "Solid-State Grafting-to―and "Grafting-from― Methods. Journal of the American Chemical Society, 2008, 130, 11594-11595.	13.7	237
113	Poly(ethylene oxide) Single Crystals as Templates for Au Nanoparticle Patterning and Asymmetrical Functionalization. Macromolecules, 2008, 41, 149-155.	4.8	41
114	Competition between liquid crystallinity and block copolymerself-assembly in core–shell rod–coil block copolymers. Soft Matter, 2008, 4, 458-461.	2.7	32
115	Hierarchically Ordered Polymer Nanofibers via Electrospinning and Controlled Polymer Crystallization. Macromolecules, 2008, 41, 9516-9521.	4.8	87
116	Immobilizing Au Nanoparticles with Polymer Single Crystals, Patterning and Asymmetric Functionalization. Journal of the American Chemical Society, 2007, 129, 12-13.	13.7	158
117	Polymer Decoration on Carbon Nanotubes via Physical Vapor Deposition. Langmuir, 2007, 23, 8522-8525.	3.5	56
118	Layer-in-Layer Hierarchical Nanostructures Fabricated by Combining Holographic Polymerization and Block Copolymer Self-Assembly. Nano Letters, 2007, 7, 3128-3133.	9.1	30
119	Patterning Polyethylene Oligomers on Carbon Nanotubes Using Physical Vapor Deposition. Nano Letters, 2006, 6, 1007-1012.	9.1	126
120	Morphology and Crystallization Behavior of HDPE/CNT Nanocomposite. Journal of Macromolecular Science - Physics, 2006, 45, 231-245.	1.0	157
121	On the structure of holographic polymer-dispersed polyethylene glycol. Polymer, 2006, 47, 8147-8154.	3.8	20
122	Polymer Crystallization-Driven, Periodic Patterning on Carbon Nanotubes. Journal of the American Chemical Society, 2006, 128, 1692-1699.	13.7	366
123	Nanohybrid Shish-Kebabs: Periodically Functionalized Carbon Nanotubes. Advanced Materials, 2005, 17, 1198-1202.	21.0	331
124	Polymer crystallization/melting induced thermal switching in a series of holographically patterned Bragg reflectors. Soft Matter, 2005, 1, 238.	2.7	30
125	Onset of Tethered Chain Overcrowding. Physical Review Letters, 2004, 93, 028301.	7.8	113
126	DNET: The Drexel Nano Engineering Track Materials Research Society Symposia Proceedings, 2004, 827, 182.	0.1	0

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127	"Chemically Shielded―Poly(ethylene oxide) Single Crystal Growth and Construction of Channel-Wire Arrays with Chemical and Geometric Recognitions on a Submicrometer Scale. Macromolecules, 2004, 37, 5292-5299.	4.8	122
128	Early-Stage Formation of Helical Single Crystals and Their Confined Growth in Thin Film. Macromolecules, 2001, 34, 3634-3641.	4.8	48
129	Left or Right, It Is a Matter of One Methylene Unit. Journal of the American Chemical Society, 2001, 123, 2462-2463.	13.7	83
130	Molecular Orientations in Flat-Elongated and Helical Lamellar Crystals of a Main-Chain Nonracemic Chiral Polyester. Journal of the American Chemical Society, 2000, 122, 72-79.	13.7	91
131	Double Twist in Helical Polymer "Soft―Crystals. Physical Review Letters, 1999, 83, 4558-4561.	7.8	95
132	The effects of underfill on the reliability of flip chip solder joints. Journal of Electronic Materials, 1999, 28, 1017-1022.	2.2	32
133	Helical single-lamellar crystals thermotropically formed in a synthetic nonracemic chiral main-chain polyester. Physical Review B, 1999, 60, 12675-12680.	3.2	25
134	Study of Practical Adhesion of Metals to Glass Substrates. Materials Research Society Symposia Proceedings, 1998, 522, 377.	0.1	1
135	Low Stress Under Bump Metallizations for Direct Chip Attach. Materials Research Society Symposia Proceedings, 1998, 555, 27.	0.1	0
136	Indentation load relaxation experiments with indentation depth in the submicron range. Journal of Materials Research, 1990, 5, 2100-2106.	2.6	47
137	The Use of Transition Metal Oxides in Microwave Sintering of Coal Ash-Derived Bricks and Tiles. Materials Research Society Symposia Proceedings, 1989, 178, 279.	0.1	2
138	Interfacial reaction-induced morphological instabilities in thin Al/Pt and Al/Pd films. Journal of Materials Research, 1987, 2, 557-567.	2.6	19
139	Strain aging and load relaxation behavior of type 316 stainless steel at room temperature. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1986, 17, 1757-1767.	1.4	20
140	Crystallization Behavior of Polyethylene/Carbon Nanotube Composites., 0,, 523-551.		0