Yueh-Lin Loo

List of Publications by Year
in descending order

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191 papers	11,840 citations	26630 56 h-index	30922 102 g-index
194 all docs	194 docs citations	194 times ranked	14237 citing authors

#	Article	IF	Citations
1	Consensus statement for stability assessment and reporting for perovskite photovoltaics based on ISOS procedures. Nature Energy, 2020, 5, 35-49.	39.5	797
2	Molecular helices as electron acceptors in high-performance bulk heterojunction solar cells. Nature Communications, 2015, 6, 8242.	12.8	525
3	Modes of Crystallization in Block Copolymer Microdomains:Â Breakout, Templated, and Confined. Macromolecules, 2002, 35, 2365-2374.	4.8	426
4	Efficient Organic Solar Cells with Helical Perylene Diimide Electron Acceptors. Journal of the American Chemical Society, 2014, 136, 15215-15221.	13.7	414
5	Hybrid Organicâ€“Inorganic Perovskites (HOIPs): Opportunities and Challenges. Advanced Materials, 2015, 27, 5102-5112.	21.0	372
6	Wrinkles and deep folds as photonic structures in photovoltaics. Nature Photonics, 2012, 6, 327-332.	31.4	346
7	Polymer Crystallization Confined in One, Two, or Three Dimensions. Macromolecules, 2001, 34, 8968-8977.	4.8	318
8	Organic transistors with high thermal stability for medical applications. Nature Communications, 2012, 3, 723.	12.8	290
9	Influence of Solvent Coordination on Hybrid Organicâ€“Inorganic Perovskite Formation. ACS Energy Letters, 2018, 3, 92-97.	17.4	273
10	Metastable Dion-Jacobson 2D structure enables efficient and stable perovskite solar cells. Science, 2022, 375, 71-76.	12.6	216
11	Direct determination of the electronic structure of the poly(3-hexylthiophene):phenyl-[6,6]-C61 butyric acid methyl ester blend. Organic Electronics, 2010, 11, 1779-1785.	2.6	211
12	Soft, conformable electrical contacts for organic semiconductors: High-resolution plastic circuits by lamination. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10252-10256.	7.1	198
13	Pairing of near-ultraviolet solar cells with electrochromic windows for smart management of the solar spectrum. Nature Energy, 2017, 2, .	39.5	195
14	Electronic Level Alignment in Inverted Organometal Perovskite Solar Cells. Advanced Materials Interfaces, 2015, 2, 1400532.	3.7	174
15	A hole-transport material that also passivates perovskite surface defects for solar cells with improved efficiency and stability. Energy and Environmental Science, 2020, 13, 4334-4343.	30.8	147
16	Transient photovoltaic behavior of air-stable, inverted organic solar cells with solution-processed electron transport layer. Applied Physics Letters, 2009, 94, 113302.	3.3	145
17	Controlling Nucleation and Crystallization in Solutionâ€Processed Organic Semiconductors for Thinâ€Film Transistors. Advanced Materials, 2009, 21, 3605-3609.	21.0	141
18	Supersized contorted aromatics. Chemical Science, 2013, 4, 2018.	7.4	141

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19	Itâ€™s time to focus on organic solar cell stability. Nature Energy, 2020, 5, 947-949.	39.5	138
20	Improving the electrical conductivity of polymer acid-doped polyaniline by controlling the template molecular weight. Journal of Materials Chemistry, 2007, 17, 1268.	6.7	131
21	Nanoscale organic transistors that use source/drain electrodes supported by high resolution rubber stamps. Applied Physics Letters, 2003, 82, 793-795.	3.3	129
22	Directly patternable, highly conducting polymers for broad applications in organic electronics. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5712-5717.	7.1	127
23	Using Self-Organization To Control Morphology in Molecular Photovoltaics. Journal of the American Chemical Society, 2013, 135, 2207-2212.	13.7	126
24	Polymer Acid Doped Polyaniline Is Electrochemically Stable Beyond pH 9. Chemistry of Materials, 2009, 21, 280-286.	6.7	121
25	Accelerated aging of all-inorganic, interface-stabilized perovskite solar cells. Science, 2022, 377, 307-310.	12.6	121
26	Solvent-dependent electrical characteristics and stability of organic thin-film transistors with drop cast bis(triisopropylsilylethynyl) pentacene. Applied Physics Letters, 2008, 93, .	3.3	116
27	Structural Origins for Tunable Openâ€Circuit Voltage in Ternaryâ€Blend Organic Solar Cells. Advanced Functional Materials, 2015, 25, 5557-5563.	14.9	115
28	Accessing Highly Oriented Two-Dimensional Perovskite Films via Solvent-Vapor Annealing for Efficient and Stable Solar Cells. Nano Letters, 2020, 20, 8880-8889.	9.1	114
29	An Electron-Conducting Cross-Linked Polyaniline-Based Redox Hydrogel, Formed in One Step at pH 7.2, Wires Glucose Oxidase. Journal of the American Chemical Society, 2007, 129, 7006-7007.	13.7	110
30	From Monolayer to Multilayer Nâ€Channel Polymeric Fieldâ€Effect Transistors with Precise Conformational Order. Advanced Materials, 2012, 24, 951-956.	21.0	109
31	Progress and Challenges in Commercialization of Organic Electronics. MRS Bulletin, 2008, 33, 653-662.	3.5	105
32	Electrical Stress Influences the Efficiency of CH₃NH₃PbI₃ Perovskite Light Emitting Devices. Advanced Materials, 2017, 29, 1605317.	21.0	105
33	Advancing 2D Perovskites for Efficient and Stable Solar Cells: Challenges and Opportunities. Advanced Materials, 2022, 34, e2105849.	21.0	104
34	Striking the right balance of intermolecular coupling for high-efficiency singlet fission. Chemical Science, 2018, 9, 6240-6259.	7.4	97
35	Tuning Polymorphism and Orientation in Organic Semiconductor Thin Films via Post-deposition Processing. Journal of the American Chemical Society, 2014, 136, 15749-15756.	13.7	89
36	Mayer Bond Order as a Metric of Complexation Effectiveness in Lead Halide Perovskite Solutions. Chemistry of Materials, 2017, 29, 2435-2444.	6.7	82

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37	Polyethylene Crystal Orientation Induced by Block Copolymer Cylinders. Macromolecules, 2000, 33, 8361-8366.	4.8	80
38	Assessing the Huangâ€“Brown Description of Tie Chains for Charge Transport in Conjugated Polymers. ACS Macro Letters, 2018, 7, 1333-1338.	4.8	79
39	Enhanced Chargeâ€Carrier Injection and Collection Via Lamination of Doped Polymer Layers pâ€Doped with a Solutionâ€Processible Molybdenum Complex. Advanced Functional Materials, 2014, 24, 2197-2204.	14.9	77
40	Influence of Bulky Organoâ€Ammonium Halide Additive Choice on the Flexibility and Efficiency of Perovskite Lightâ€Emitting Devices. Advanced Functional Materials, 2018, 28, 1802060.	14.9	76
41	Altering the Thermodynamics of Phase Separation in Inverted Bulkâ€Heterojunction Organic Solar Cells. Advanced Materials, 2009, 21, 3110-3115.	21.0	75
42	Directing the film structure of organic semiconductors via post-deposition processing for transistor and solar cell applications. Energy and Environmental Science, 2014, 7, 592-608.	30.8	75
43	The Polymer Physics of Multiscale Charge Transport in Conjugated Systems. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 1559-1571.	2.1	73
44	Structural Complexities in the Active Layers of Organic Electronics. Annual Review of Chemical and Biomolecular Engineering, 2010, 1, 59-78.	6.8	72
45	Device Characteristics of Bulk-Heterojunction Polymer Solar Cells are Independent of Interfacial Segregation of Active Layers. Chemistry of Materials, 2011, 23, 2020-2023.	6.7	71
46	Extending the Photovoltaic Response of Perovskite Solar Cells into the Nearâ€Infrared with a Narrowâ€Bandgap Organic Semiconductor. Advanced Materials, 2019, 31, e1904494.	21.0	71
47	Oxidation of silver electrodes induces transition from conventional to inverted photovoltaic characteristics in polymer solar cells. Applied Physics Letters, 2009, 95, 183301.	3.3	69
48	Small-Molecule Thiophene-C₆₀ Dyads As Compatibilizers in Inverted Polymer Solar Cells. Chemistry of Materials, 2010, 22, 5762-5773.	6.7	68
49	Phase behavior and viscoelastic properties of entangled block copolymer gels. Journal of Polymer Science, Part B: Polymer Physics, 2001, 39, 2183-2197.	2.1	67
50	Direct patterning of conductive water-soluble polyaniline for thin-film organic electronics. Applied Physics Letters, 2005, 86, 074102.	3.3	65
51	Timeâ€Dependent Mechanical Response of APbX₃ (A = Cs, CH₃NH₃; X) Tj ETQq1 1 0.784314	21.0	63
52	Guiding Crystallization around Bends and Sharp Corners. Advanced Materials, 2012, 24, 2692-2698.	21.0	62
53	Solvent-type-dependent polymorphism and charge transport in a long fused-ring organic semiconductor. Nanoscale, 2014, 6, 449-456.	5.6	59
54	Pyridalthiadiazole acceptor-functionalized triarylboranes with multi-responsive optoelectronic characteristics. Chemical Science, 2017, 8, 5497-5505.	7.4	58

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55	Large-area patterning of a solution-processable organic semiconductor to reduce parasitic leakage and off currents in thin-film transistors. Applied Physics Letters, 2007, 90, 244103.	3.3	56
56	Face-on stacking and enhanced out-of-plane hole mobility in graphene-templated copper phthalocyanine. Chemical Communications, 2014, 50, 5319-5321.	4.1	56
57	Solution-processable, crystalline material for quantitative singlet fission. Materials Horizons, 2017, 4, 915-923.	12.2	56
58	Halogenation of a Nonplanar Molecular Semiconductor to Tune Energy Levels and Bandgaps for Electron Transport. Chemistry of Materials, 2015, 27, 1892-1900.	6.7	55
59	Tuning the Morphology of All-Polymer OPVs through Altering Polymerâ€“Solvent Interactions. Chemistry of Materials, 2014, 26, 5020-5027.	6.7	54
60	Solvent-Dependent Assembly of Terphenyl- and Quaterphenyldithiol on Gold and Gallium Arsenide. Langmuir, 2005, 21, 5887-5893.	3.5	53
61	Bi2S3 nanowire networks as electron acceptor layers in solution-processed hybrid solar cells. Journal of Materials Chemistry C, 2015, 3, 2686-2692.	5.5	53
62	Ambipolar Transport in Solution-Synthesized Graphene Nanoribbons. ACS Nano, 2016, 10, 4847-4856.	14.6	52
63	Narrowing the size distribution of the polymer acid improves PANI conductivity. Journal of Materials Chemistry, 2008, 18, 3129.	6.7	51
64	Engineering the organic semiconductor-electrode interface in polymer solar cells. Journal of Materials Chemistry, 2010, 20, 6604.	6.7	51
65	A Highly Regular Hexagonally Perforated Lamellar Structure in a Quiescent Diblock Copolymer. Macromolecules, 2005, 38, 4947-4949.	4.8	50
66	Post-deposition Processing Methods To Induce Preferential Orientation in Contorted Hexabenzocoronene Thin Films. ACS Nano, 2013, 7, 294-300.	14.6	50
67	Atom Transfer Radical Copolymerization of Hydroxyethyl Methacrylate and Dimethylaminoethyl Methacrylate in Polar Solvents. Macromolecules, 2006, 39, 8609-8615.	4.8	49
68	Polarâ€Electrodeâ€Bridged Electroluminescent Displays: 2D Sensors Remotely Communicating Optically. Advanced Materials, 2017, 29, 1703552.	21.0	49
69	Quantifying Resistances across Nanoscale Low- and High-Angle Interspherulite Boundaries in Solution-Processed Organic Semiconductor Thin Films. ACS Nano, 2012, 6, 9879-9886.	14.6	48
70	Crystallization Within Block Copolymer Mesophases. , 0, , 213-243.		46
71	Elucidating the nanoscale origins of organic electronic function by conductive atomic force microscopy. Journal of Materials Chemistry C, 2014, 2, 3118-3128.	5.5	46
72	Cobaltocene-Doped Viologen as Functional Components in Organic Electronics. Chemistry of Materials, 2009, 21, 4583-4588.	6.7	45

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73	Reversible Soft-Contact Lamination and Delamination for Non-Invasive Fabrication and Characterization of Bulk-Heterojunction and Bilayer Organic Solar Cells. Chemistry of Materials, 2010, 22, 4931-4938.	6.7	45
74	Orientation-Independent Charge Transport in Single Spherulites from Solution-Processed Organic Semiconductors. Journal of the American Chemical Society, 2012, 134, 5436-5439.	13.7	45
75	Solution-processable organic semiconductors for thin-film transistors: Opportunities for chemical engineers. AICHE Journal, 2007, 53, 1066-1074.	3.6	44
76	Electronic structure of the poly(3-hexylthiophene):indene-C60 bisadduct bulk heterojunction. Journal of Applied Physics, 2011, 110, 043719.	2.5	44
77	High Performance OTFTs Fabricated Using a Calamitic Liquid Crystalline Material of 2â€(4â€Dodecyl) Tj ETQq1 1 0.784314 rgBT /Ove	5.1	44
78	Determination of the Molecular Weight of Conjugated Polymers with Diffusion-Ordered NMR Spectroscopy. Chemistry of Materials, 2018, 30, 570-576.	6.7	44
79	Unusual Molecular Conformations in Fluorinated, Contorted Hexabenzocoronenes. Organic Letters, 2010, 12, 4840-4843.	4.6	42
80	Understanding Polymorph Transformations in Coreâ€Chlorinated Naphthalene Diimides and their Impact on Thinâ€Film Transistor Performance. Advanced Functional Materials, 2016, 26, 2357-2364.	14.9	42
81	Establishing Efficient Electrical Contact to the Weak Crystals of Triethylsilylethynyl Anthradithiophene. Chemistry of Materials, 2007, 19, 5210-5215.	6.7	39
82	Tuning Contact Recombination and Open-Circuit Voltage in Polymer Solar Cells via Self-Assembled Monolayer Adsorption at the Organicâ€“Metal Oxide Interface. Journal of Physical Chemistry C, 2013, 117, 20474-20484.	3.1	39
83	Temperatureâ€Dependent Electrical Transport in Polymerâ€Sorted Semiconducting Carbon Nanotube Networks. Advanced Functional Materials, 2015, 25, 105-110.	14.9	39
84	Isomerically pure electron-deficient anthradithiophenes and their acceptor performance in polymer solar cells. Chemical Communications, 2011, 47, 7617.	4.1	38
85	Supramolecular Order of Solutionâ€Processed Perylenediimide Thin Films: Highâ€Performance Smallâ€Channel nâ€Type Organic Transistors. Advanced Functional Materials, 2011, 21, 4479-4486.	14.9	38
86	Sulfur-Donor Solvents Strongly Coordinate Pb²⁺ in Hybrid Organicâ€“Inorganic Perovskite Precursor Solutions. Journal of Physical Chemistry C, 2020, 124, 14496-14502.	3.1	38
87	Controlled Radical Polymerization and Copolymerization of 5-Methylene-2-phenyl-1,3-dioxolan-4-one by ATRP. Macromolecules, 2005, 38, 5581-5586.	4.8	36
88	Donorâ€Acceptor Interfacial Interactions Dominate Device Performance in Hybrid P3HTâ€ZnO Nanowireâ€Array Solar Cells. Advanced Energy Materials, 2014, 4, 1400585.	19.5	36
89	Ultra-low-Îº materials derived from poly(<scp>d</scp>,<scp>l</scp>-lactide-b-pentafluorostyrene) diblock copolymers. Journal of Materials Chemistry, 2008, 18, 530-536.	6.7	35
90	Dynamics of a Thermoreversible Transition between Cylindrical and Hexagonally Perforated Lamellar Mesophases. Macromolecules, 2005, 38, 7098-7104.	4.8	34

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91	Influence of heteroatoms on the charge mobility of anthracene derivatives. Journal of Materials Chemistry C, 2016, 4, 3517-3522.	5.5	34
92	Contorted Hexabenzocoronenes with Extended Heterocyclic Moieties Improve Visible-Light Absorption and Performance in Organic Solar Cells. Chemistry of Materials, 2016, 28, 673-681.	6.7	34
93	Revealing the Full Charge Transfer State Absorption Spectrum of Organic Solar Cells. Advanced Energy Materials, 2016, 6, 1601001.	19.5	33
94	[d]-Carbonâ€“carbon double bond engineering in diazaphosphepines: a pathway to modulate the chemical and electronic structures of heteropines. Chemical Science, 2016, 7, 4211-4219.	7.4	33
95	Acid-Catalyzed Reactions Activate DMSO as a Reagent in Perovskite Precursor Inks. Chemistry of Materials, 2019, 31, 2114-2120.	6.7	33
96	Polyaniline Exhibiting Stable and Reversible Switching in the Visible Extending into the Near-IR in Aqueous Media. Chemistry of Materials, 2010, 22, 2333-2340.	6.7	32
97	Direct imaging of polyethylene crystallites within block copolymer microdomains. Journal of Polymer Science, Part B: Polymer Physics, 2000, 38, 2564-2570.	2.1	31
98	Azeotropic Atom Transfer Radical Polymerization of Hydroxyethyl Methacrylate and (Dimethylamino)ethyl Methacrylate Statistical Copolymers and Block Copolymers with Polystyrene. Macromolecules, 2006, 39, 2474-2480.	4.8	31
99	Polymer Conductivity through Particle Connectivity. Chemistry of Materials, 2009, 21, 1948-1954.	6.7	30
100	The Diffraction Pattern Calculator(DPC) toolkit: a user-friendly approach to unit-cell lattice parameter identification of two-dimensional grazing-incidence wide-angle X-ray scattering data. Journal of Applied Crystallography, 2014, 47, 2090-2099.	4.5	30
101	pH Response of Model Diblock and Triblock Copolymer Networks Containing Polystyrene and Poly(2-hydroxyethyl methacrylate-co-2-(dimethylamino)ethyl methacrylate). Macromolecules, 2008, 41, 4390-4397.	4.8	29
102	Structureâ€“Property Relationship Study of Substitution Effects on Isoindigo-Based Model Compounds as Electron Donors in Organic Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 14533-14542.	8.0	29
103	Impact of a Low Concentration of Dopants on the Distribution of Gap States in a Molecular Semiconductor. Chemistry of Materials, 2016, 28, 2677-2684.	6.7	29
104	Crystalline Intermediates and Their Transformation Kinetics during the Formation of Methylammonium Lead Halide Perovskite Thin Films. Chemistry of Materials, 2016, 28, 9041-9048.	6.7	29
105	Presence of Short Intermolecular Contacts Screens for Kinetic Stability in Packing Polymorphs. Journal of the American Chemical Society, 2018, 140, 7519-7525.	13.7	29
106	The Emerging Role of Halogen Bonding in Hybrid Perovskite Photovoltaics. Chemistry of Materials, 2022, 34, 2495-2502.	6.7	29
107	Isoindigo-Containing Molecular Semiconductors: Effect of Backbone Extension on Molecular Organization and Organic Solar Cell Performance. Chemistry of Materials, 2014, 26, 6570-6577.	6.7	28
108	An all-conjugated gradient copolymer approach for morphological control of polymer solar cells. Journal of Materials Chemistry A, 2015, 3, 20174-20184.	10.3	28

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109	Influence of gradient strength and composition profile on the onset of the cloud point transition in hydroxyethyl methacrylate/dimethylaminoethyl methacrylate gradient copolymers. Polymer, 2012, 53, 1131-1137.	3.8	26
110	Formation of Organic Alloys in Ternary-Blend Solar Cells with Two Acceptors Having Energy-Level Offsets Exceeding 0.4 eV. ACS Energy Letters, 2017, 2, 2149-2156.	17.4	26
111	Understanding Heterogeneous Nucleation in Binary, Solution-Processed, Organic Semiconductor Thin Films. Chemistry of Materials, 2012, 24, 2920-2928.	6.7	25
112	Cloud point suppression in dilute solutions of model gradient copolymers with prespecified composition profiles. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 629-637.	2.1	24
113	Phase behavior of gradient copolymer solutions: a Monte Carlo simulation study. Soft Matter, 2012, 8, 6471.	2.7	24
114	Tail Stateâ€Assisted Charge Injection and Recombination at the Electronâ€Collecting Interface of P3HT:PCBM Bulkâ€Heterojunction Polymer Solar Cells. Advanced Energy Materials, 2012, 2, 1447-1455.	19.5	24
115	Quantifying the Energy Barriers and Elucidating the Charge Transport Mechanisms across Interspherulite Boundaries in Solutionâ€Processed Organic Semiconductor Thin Films. Advanced Functional Materials, 2015, 25, 5662-5668.	14.9	24
116	Understanding the Crystal Packing and Organic Thinâ€Film Transistor Performance in Isomeric Guestâ€“Host Systems. Advanced Materials, 2017, 29, 1700048.	21.0	24
117	Impact of Atomistic Substitution on Thin-Film Structure and Charge Transport in a Germanyl-ethynyl Functionalized Pentacene. Chemistry of Materials, 2019, 31, 6615-6623.	6.7	24
118	Mesostructures of Polyaniline Films Affect Polyelectrochromic Switching. Chemistry of Materials, 2011, 23, 4402-4409.	6.7	23
119	Benzo[1,2-b:6,5-bâ€²]dithiophene(dithiazole)-4,5-dione derivatives: synthesis, electronic properties, crystal packing and charge transport. Journal of Materials Chemistry C, 2013, 1, 1467.	5.5	23
120	Bandâ€like Charge Photogeneration at a Crystalline Organic Donor/Acceptor Interface. Advanced Energy Materials, 2018, 8, 1701494.	19.5	23
121	Sputtered ZnO seed layer enhances photovoltaic behavior in hybrid ZnO/P3HT solar cells. Organic Electronics, 2013, 14, 3477-3483.	2.6	22
122	Computationally aided design of a high-performance organic semiconductor: the development of a universal crystal engineering core. Chemical Science, 2019, 10, 10543-10549.	7.4	22
123	Enhancing the Thermal Stability of Organic Field-Effect Transistors by Electrostatically Interlocked 2D Molecular Packing. Chemistry of Materials, 2018, 30, 3638-3642.	6.7	21
124	Gap States in Methylammonium Lead Halides: The Link to Dimethylsulfoxide?. Advanced Materials, 2020, 32, e2003482.	21.0	21
125	Unraveling the Elastic Properties of (Quasi)Two-Dimensional Hybrid Perovskites: A Joint Experimental and Theoretical Study. ACS Applied Materials & Interfaces, 2020, 12, 17881-17892.	8.0	21
126	The Role of Tie Chains on the Mechanoâ€Electrical Properties of Semiconducting Polymer Films. Advanced Electronic Materials, 2020, 6, 1901070.	5.1	21

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127	Sequence of annealing polymer photoactive layer influences the air stability of inverted solar cells. Organic Electronics, 2009, 10, 1483-1488.	2.6	19
128	Role of Postdeposition Thermal Annealing on Intracrystallite and Intercrystallite Structuring and Charge Transport in Poly(3-hexylthiophene). ACS Applied Materials & Interfaces, 2021, 13, 999-1007.	8.0	19
129	Near-monodispersed polyaniline particles through template synthesis and simultaneous doping with diblock copolymers of PMA and PAAMPSA. Journal of Materials Chemistry, 2008, 18, 5835.	6.7	18
130	Modular construction of P3HT/PCBM planar-heterojunction solar cells by lamination allows elucidation of processingâ€“structureâ€“function relationships. Organic Electronics, 2011, 12, 1963-1972.	2.6	18
131	Eliminating Piezoresistivity in Flexible Conducting Polymers for Accurate Temperature Sensing under Dynamic Mechanical Deformations. Small, 2016, 12, 2832-2838.	10.0	17
132	Additive Growth and Crystallization of Polymer Films. Macromolecules, 2016, 49, 2860-2867.	4.8	17
133	Deprotecting Thioacetyl-Terminated Terphenyldithiol for Assembly on Gallium Arsenide. Langmuir, 2008, 24, 851-856.	3.5	16
134	Temperature-induced ordering and gelation of star micelles based on ABA triblocks synthesized via aqueous RAFT polymerization. Soft Matter, 2009, 5, 2179.	2.7	16
135	Altering the Polymorphic Accessibility of Polycyclic Aromatic Hydrocarbons with Fluorination. Chemistry of Materials, 2017, 29, 4311-4316.	6.7	16
136	A charge transfer framework that describes supramolecular interactions governing structure and properties of 2D perovskites. Nature Communications, 2022, 13, .	12.8	16
137	Electronic structure and carrier transport at laminated polymer homojunctions. Organic Electronics, 2013, 14, 149-155.	2.6	15
138	Precursor Solution Annealing Forms Cubicâ€Phase Perovskite and Improves Humidity Resistance of Solar Cells. Advanced Functional Materials, 2018, 28, 1801508.	14.9	15
139	The Effects of Chromophore Halogenation on the Stability of UVâ€Absorbing Organic Solar Cells. Advanced Energy Materials, 2021, 11, 2100225.	19.5	15
140	Reversible Phase Transformations in Concentrated Aqueous Block Copolymer Solutions of Poly(methyl acrylate)-b-poly(hydroxyethyl methacrylate-co-dimethylaminoethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 217	4.8	14
141	Annealing Sequence Dependent Open-Circuit Voltage of Inverted Polymer Solar Cells Attributable to Interfacial Chemical Reaction between Top Electrodes and Photoactive Layers. Langmuir, 2011, 27, 11265-11271.	3.5	14
142	Semiconducting SWNTs sorted by polymer wrapping: How pure are they?. Applied Physics Letters, 2018, 112, 072106.	3.3	14
143	Photocurrent in Metal-Halide Perovskite/Organic Semiconductor Heterostructures: Impact of Microstructure on Charge Generation Efficiency. ACS Applied Materials & Interfaces, 2021, 13, 10231-10238.	8.0	14
144	Design of UV-Absorbing Donor Molecules for Nearly Imperceptible Organic Solar Cells. ACS Energy Letters, 2022, 7, 180-188.	17.4	14

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145	Tuning kinetic competitions to traverse the rich structural space of organic semiconductor thin films. MRS Communications, 2015, 5, 407-421.	1.8	13
146	Low-carbon â€œdrop-in replacementâ€•transportation fuels from non-food biomass and natural gas. Applied Energy, 2016, 183, 1722-1730.	10.1	13
147	Beyond Doping and Charge Balancing: How Polymer Acid Templates Impact the Properties of Conducting Polymer Complexes. Journal of Physical Chemistry Letters, 2017, 8, 4530-4539.	4.6	13
148	Ligand chemistry of titania precursor affects transient photovoltaic behavior in inverted organic solar cells. Applied Physics Letters, 2013, 102, 103302.	3.3	12
149	Mapping the Competition between Exciton Dissociation and Charge Transport in Organic Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 28743-28749.	8.0	12
150	Enhancing Carrier Mobilities in Organic Thin-Film Transistors Through Morphological Changes at the Semiconductor/Dielectric Interface Using Supercritical Carbon Dioxide Processing. ACS Applied Materials & Interfaces, 2016, 8, 31144-31153.	8.0	12
151	Humidity and Strain Rate Determine the Extent of Phase Shift in the Piezoresistive Response of PEDOT:PSS. ACS Applied Materials & Interfaces, 2019, 11, 16888-16895.	8.0	12
152	Fluorination of a polymer donor through the trifluoromethyl group for high-performance polymer solar cells. Journal of Materials Chemistry A, 2020, 8, 12149-12155.	10.3	12
153	Coronene derivatives for transparent organic photovoltaics through inverse materials design. Journal of Materials Chemistry C, 2021, 9, 1310-1317.	5.5	12
154	Tuning Morphology and Melting Temperature in Polyethylene Films by MAPLE. Macromolecules, 2018, 51, 512-519.	4.8	11
155	Fluorinated and hydrogenated self-assembled monolayers (SAMs) on anodes: Effects of SAM chemistry on device characteristics of polymer solar cells. Organic Electronics, 2014, 15, 3333-3340.	2.6	10
156	Photoluminescence of Functionalized Germanium Nanocrystals Embedded in Arsenic Sulfide Glass. ACS Applied Materials & Interfaces, 2017, 9, 18911-18917.	8.0	10
157	Solventâ€Free Coating of Organic Semiconductor Membranes with Centimetric Crystalline Domains. Advanced Electronic Materials, 2021, 7, 2000792.	5.1	10
158	Tuning the Magnitude and the Polarity of the Piezoresistive Response of Polyaniline through Structural Control. ACS Applied Materials & Interfaces, 2017, 9, 12766-12772.	8.0	9
159	Data Mining for Parameters Affecting Polymorph Selection in Contorted Hexabenzocoronene Derivatives. Chemistry of Materials, 2018, 30, 3330-3337.	6.7	9
160	Tunable Properties of MAPLE-Deposited Thin Films in the Presence of Suppressed Segmental Dynamics. ACS Macro Letters, 2019, 8, 1115-1121.	4.8	9
161	Excited-State Dynamics of 5,14- vs 6,13-Bis(trialkylsilylethynyl)-Substituted Pentacenes: Implications for Singlet Fission. Journal of Physical Chemistry C, 2022, 126, 9784-9793.	3.1	9
162	Structural origin of anisotropic transport in electrically conducting dichloroacetic acid-treated polymers. Organic Electronics, 2014, 15, 631-638.	2.6	8

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163	The effect of regioisomerism on the crystal packing and device performance of desymmetrized anthradithiophenes. Journal of Materials Chemistry C, 2015, 3, 8956-8962.	5.5	8
164	Cooperative Assembly of Phosphole Lipids and Single-Walled Carbon Nanotubes. Chemistry of Materials, 2016, 28, 8407-8414.	6.7	8
165	Effect of ozone exposure on the electrical characteristics of high-purity, large-diameter semiconducting carbon nanotubes. Physical Chemistry Chemical Physics, 2014, 16, 10861-10865.	2.8	7
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