

Shaochuan Luo

List of Publications by Year in descending order

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26
papers

2,138
citations

471509

17
h-index

580821

25
g-index

27
all docs

27
docs citations

27
times ranked

2956
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly stretchable polymer semiconductor films through the nanoconfinement effect. <i>Science</i> , 2017, 355, 59-64.	12.6	897
2	Multi-scale ordering in highly stretchable polymer semiconducting films. <i>Nature Materials</i> , 2019, 18, 594-601.	27.5	251
3	Double Glass Transition Temperatures of Poly(methyl methacrylate) Confined in Alumina Nanotube Templates. <i>Macromolecules</i> , 2014, 47, 297-303.	4.8	112
4	Conjugated Carbon Cyclic Nanorings as Additives for Intrinsically Stretchable Semiconducting Polymers. <i>Advanced Materials</i> , 2019, 31, e1903912.	21.0	99
5	The Critical Role of Electron-Donating Thiophene Groups on the Mechanical and Thermal Properties of Donor-Acceptor Semiconducting Polymers. <i>Advanced Electronic Materials</i> , 2019, 5, 1800899.	5.1	89
6	Tacky Elastomers to Enable Tear-Resistant and Autonomous Self-Healing Semiconductor Composites. <i>Advanced Functional Materials</i> , 2020, 30, 2000663.	14.9	85
7	Probing the Viscoelastic Property of Pseudo Free-Standing Conjugated Polymeric Thin Films. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800092.	3.9	79
8	A high performance SnO ₂ /C nanocomposite cathode for aluminum-ion batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 7213-7220.	10.3	73
9	Characterization of Hydrogen Bonding Formation and Breaking in Semiconducting Polymers under Mechanical Strain. <i>Macromolecules</i> , 2019, 52, 2476-2486.	4.8	54
10	F4-TCNQ as an Additive to Impart Stretchable Semiconductors with High Mobility and Stability. <i>Advanced Electronic Materials</i> , 2020, 6, 2000251.	5.1	54
11	Tuning Conjugated Polymer Chain Packing for Stretchable Semiconductors. <i>Advanced Materials</i> , 2022, 34, e2104747.	21.0	47
12	Toward the Prediction and Control of Glass Transition Temperature for Donor-Acceptor Polymers. <i>Advanced Functional Materials</i> , 2020, 30, 2002221.	14.9	46
13	Two-Dimensional Covalent Organic Frameworks with Enhanced Aluminum Storage Properties. <i>ChemSusChem</i> , 2020, 13, 3447-3454.	6.8	44
14	Sensitive Characterization of the Influence of Substrate Interfaces on Supported Thin Films. <i>Macromolecules</i> , 2014, 47, 6365-6372.	4.8	42
15	Effect of geometric curvature on vitrification behavior for polymer nanotubes confined in anodic aluminum oxide templates. <i>Physical Review E</i> , 2015, 92, 032306.	2.1	31
16	Metal-Ligand Based Mechanophores Enhance Both Mechanical Robustness and Electronic Performance of Polymer Semiconductors. <i>Advanced Functional Materials</i> , 2021, 31, 2009201.	14.9	30
17	Interplay between Free Surface and Solid Interface Nucleation on Two-Step Crystallization of Poly(ethylene terephthalate) Thin Films Studied by Fast Scanning Calorimetry. <i>Macromolecules</i> , 2018, 51, 5209-5218.	4.8	26
18	Multimorphous Phases in Diketopyrrolopyrrole-Based Conjugated Polymers: From Bulk to Ultrathin Films. <i>Macromolecules</i> , 2020, 53, 4480-4489.	4.8	18

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19	Observation of Stepwise Ultrafast Crystallization Kinetics of Donor–Acceptor Conjugated Polymers and Correlation with Field Effect Mobility. <i>Chemistry of Materials</i> , 2021, 33, 1637-1647.	6.7	17
20	A Chitosan/Poly(ethylene oxide)-Based Hybrid Polymer Composite Electrolyte Suitable for Solid-State Lithium Metal Batteries. <i>ChemistrySelect</i> , 2020, 5, 2878-2885.	1.5	13
21	Phase separation dynamics of a poly(vinyl methyl ether)/polystyrene (PVME/PS) blend studied by ultrafast differential scanning calorimetry. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 1357-1364.	2.1	8
22	Synthesis of Site-Specific Dye-Labeled Polymer via Atom Transfer Radical Polymerization (ATRP) for Quantitative Characterization of the Well-Defined Interchain Distance. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1600568.	3.9	8
23	Influence of side-chain isomerization on the isothermal crystallization kinetics of poly(3-alkylthiophenes). <i>Journal of Materials Research</i> , 2021, 36, 191-202.	2.6	8
24	Layered double hydroxide-derived Fe-doped NiSe cathode toward stable and high-energy aluminum storage. <i>Materials Today Energy</i> , 2022, 24, 100940.	4.7	4
25	Influence of side-chain isomerization on the isothermal crystallization kinetics of poly(3-alkylthiophenes). <i>Journal of Materials Research</i> , 2021, 36, 1-12.	2.6	2
26	Dependences of Confining Size and Interfacial Curvature on the Glass Transition of Polydimethylsiloxane in Self-Assembled Block Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700518.	2.2	1