

Yan-Cheng Lin

List of Publications by Year in descending order

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63
papers

1,404
citations

304743
22
h-index

377865
34
g-index

63
all docs

63
docs citations

63
times ranked

958
citing authors

#	ARTICLE	IF	CITATIONS
1	Realizing fast photoinduced recovery with polyfluorene- <i>block</i> -poly(vinylphenyl) Tj ETQq1 1 rgBT /Over Science, 2022, 60, 525-537.	0.784314 3.8	15
2	Liquid Crystalline Rylenediimides with Highly Order Smectic Layer Structure as a Floating Gate for Multiband Photoresponding Photonic Transistor Memory. Advanced Electronic Materials, 2022, 8, 2100798.	5.1	13
3	Hydrogel-based sustainable and stretchable field-effect transistors. Organic Electronics, 2022, 100, 106358.	2.6	8
4	Volatility Transition from Short-Term to Long-Term Photonic Transistor Memory by Using Smectic Liquid Crystalline Molecules as a Floating Gate. Advanced Electronic Materials, 2022, 8, 2101123.	5.1	8
5	Self-Assembled Nanostructures of Quantum Dot/Conjugated Polymer Hybrids for Photonic Synaptic Transistors with Ultralow Energy Consumption and Zero-Gate Bias. Advanced Functional Materials, 2022, 32, 2107925.	14.9	42
6	Strain-insensitive naphthalene-diimide-based conjugated polymers through sequential regularity control. Materials Chemistry Frontiers, 2022, 6, 891-900.	5.9	7
7	Low-Energy-Consumption and Electret-Free Photosynaptic Transistor Utilizing Poly(3-hexylthiophene)-Based Conjugated Block Copolymers. Advanced Science, 2022, 9, e2105190.	11.2	38
8	Recent Advances in Organic Phototransistors: Nonvolatile Memory, Artificial Synapses, and Photodetectors. Small Science, 2022, 2, .	9.9	48
9	Self-Assembled Nanostructures of Quantum Dot/Conjugated Polymer Hybrids for Photonic Synaptic Transistors with Ultralow Energy Consumption and Zero-Gate Bias (Adv. Funct. Mater. 6/2022). Advanced Functional Materials, 2022, 32, .	14.9	3
10	Organic liquid crystals in optoelectronic device applications: <i>Field-effect</i> transistors, nonvolatile memory, and photovoltaics. Journal of the Chinese Chemical Society, 2022, 69, 1289-1304.	1.4	12
11	Unraveling the Singlet Fission Effects on Charge Modulations of Organic Phototransistor Memory Devices. ACS Applied Electronic Materials, 2022, 4, 1266-1276.	4.3	7
12	Fast Photoresponsive Phototransistor Memory Using Star-Shaped Conjugated Rod-Coil Molecules as a Floating Gate. ACS Applied Materials & Interfaces, 2022, 14, 15468-15477.	8.0	16
13	Synthesis of a novel A-b-(B-co-C)-type terpolymer with a regioregular poly(3-hexylthiophene) segment and its application to intrinsically stretchable transistor memory. Materials Chemistry and Physics, 2022, 281, 125911.	4.0	2
14	Biomass-Derived Degradable Poly(azomethine)s for Flexible Bistable Photonic Transistor Memories. ACS Sustainable Chemistry and Engineering, 2022, 10, 5268-5277.	6.7	10
15	Mechanically Tough and Durable Poly(siloxane imide) Network Elastomer for Stretchable Electronic Applications. ACS Applied Polymer Materials, 2022, 4, 3498-3510.	4.4	3
16	Harnessing of Spatially Confined Perovskite Nanocrystals Using Polysaccharide-based Block Copolymer Systems. ACS Applied Materials & Interfaces, 2022, 14, 30279-30289.	8.0	5
17	Enhancing Long-Term Thermal Stability of Non-Fullerene Organic Solar Cells Using Self-Assembly Amphiphilic Dendritic Block Copolymer Interlayers. Advanced Functional Materials, 2021, 31, 2005753.	14.9	25
18	Correlating the Molecular Structure of Polyimides with the Dielectric Constant and Dissipation Factor at a High Frequency of 10 GHz. ACS Applied Polymer Materials, 2021, 3, 362-371.	4.4	60

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19	Improving the performance of photonic transistor memory devices using conjugated block copolymers as a floating gate. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1259-1268.	5.5	28
20	Exploring the effect of the spacer structure in the heterocyclic ring-fused isoindigo-based conjugated polymer on the charge-transporting property. <i>Journal of Polymer Research</i> , 2021, 28, 1.	2.4	2
21	Improving the performance of all-inorganic perovskite light-emitting diodes through using polymeric interlayers with a pendant design. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7199-7207.	5.9	3
22	Investigating the backbone conformation and configuration effects for donor-acceptor conjugated polymers with ladder-type structures synthesized through Aldol polycondensation. <i>Journal of Materials Chemistry C</i> , 2021, 9, 9473-9483.	5.5	9
23	Stretchable OFET Memories: Tuning the Morphology and the Charge-Trapping Ability of Conjugated Block Copolymers through Soft Segment Branching. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2932-2943.	8.0	42
24	High Performance Biomass-Based Polyimides for Flexible Electronic Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3278-3288.	6.7	34
25	Modulation of the Hydrophilicity on Asymmetric Side Chains of Isoindigo-Based Polymers for Improving Carrier Mobility-Stretchability Properties. <i>Macromolecules</i> , 2021, 54, 1665-1676.	4.8	30
26	Stretchable Multicolor Emission of Polymer/Dye Blends Induced by Intermolecular Interaction and Solid-State Aggregation. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2000428.	2.2	3
27	Improving Mobility-Stretchability Properties of Polythiophene Derivatives through Ester-Substituted, Biaxially Extended Conjugated Side Chains. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1628-1637.	4.4	14
28	Pyrene-Incorporated Side Chain in π -Conjugated Polymers for Non-Volatile Transistor-Type Memory Devices with Improved Stretchability. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2109-2119.	4.4	5
29	Comprehensive Non-volatile Photo-programming Transistor Memory via a Dual-Functional Perovskite-Based Floating Gate. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 20417-20426.	8.0	25
30	Conception of a Smart Artificial Retina Based on a Dual-Mode Organic Sensing Inverter. <i>Advanced Science</i> , 2021, 8, e2100742.	11.2	27
31	Multilevel Photonic Transistor Memory Devices Based on 1D Electrospun Semiconducting Polymer /Perovskite Composite Nanofibers. <i>Advanced Materials Technologies</i> , 2021, 6, 2100080.	5.8	23
32	Highly Efficient Photo-Induced Recovery Conferred Using Charge-Transfer Supramolecular Electrets in Bistable Photonic Transistor Memory. <i>Advanced Functional Materials</i> , 2021, 31, 2102174.	14.9	22
33	Thermally Stable Colorless Copolyimides with a Low Dielectric Constant and Dissipation Factor and Their Organic Field-Effect Transistor Applications. <i>ACS Applied Polymer Materials</i> , 2021, 3, 3153-3163.	4.4	19
34	Investigation of the Mobility-Stretchability Properties of Naphthalenediimide-Based Conjugated Random Terpolymers with a Functionalized Conjugation Break Spacer. <i>Macromolecules</i> , 2021, 54, 7388-7399.	4.8	31
35	Highly Thermal Stable Polyimides Applied in Flexible Resistive Memory. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100512.	3.6	5
36	Functionalized Poly(phenylene ether) with high thermal stability as flexible dielectrics and substrates for organic field-effect transistors. <i>Organic Electronics</i> , 2021, 96, 106225.	2.6	4

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37	Naphthalene-diimide-based all-conjugated block copolymer as an effective compatibilizer to improve the performance and thermal stability of all-polymer solar cells. <i>Materials Chemistry Frontiers</i> , 2021, 5, 7216-7227.	5.9	9
38	Intrinsically stretchable naphthalenediimide- <i>b</i> -thiophene conjugated statistical terpolymers using branched conjugation break spacers for field-effect transistors. <i>Polymer Chemistry</i> , 2021, 12, 6167-6178.	3.9	8
39	Highly Efficient Photo-Induced Recovery Conferred Using Charge-Transfer Supramolecular Electrets in Bistable Photonic Transistor Memory (Adv. Funct. Mater. 40/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170299.	14.9	3
40	Multiband Photoresponding Field-Effect Transistor Memory Using Conjugated Block Copolymers with Pendent Isoindigo Coils as a Polymer Electret. <i>Advanced Electronic Materials</i> , 2021, 7, 2100655.	5.1	8
41	Organic-Inorganic Nanocomposite Film for High-Performance Stretchable Resistive Memory Device. <i>Macromolecular Rapid Communications</i> , 2020, 41, 1900542.	3.9	18
42	High-Performance Nonvolatile Organic Photonic Transistor Memory Devices using Conjugated Rod-Coil Materials as a Floating Gate. <i>Advanced Materials</i> , 2020, 32, e2002638.	21.0	80
43	High Mobility Preservation of Near Amorphous Conjugated Polymers in the Stretched States Enabled by Biaxially-Extended Conjugated Side-Chain Design. <i>Chemistry of Materials</i> , 2020, 32, 7370-7382.	6.7	57
44	Backbone Engineering of Diketopyrrolopyrrole-Based Conjugated Polymers through Random Terpolymerization for Improved Mobility-Stretchability Property. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50648-50659.	8.0	43
45	An ultra heat-resistant polyimide formulated with photo-base generator for alkaline-developable, negative-type photoresist. <i>Reactive and Functional Polymers</i> , 2020, 157, 104760.	4.1	10
46	Alkaline-developable and negative-type photosensitive polyimide with high sensitivity and excellent mechanical properties using photo-base generator. <i>Journal of Polymer Science</i> , 2020, 58, 2366-2375.	3.8	11
47	Study on Intrinsic Stretchability of Diketopyrrolopyrrole-Based π -Conjugated Copolymers with Poly(acryl amide) Side Chains for Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33014-33027.	8.0	41
48	Thermally and Mechanically Stable Polyimides as Flexible Substrates for Organic Field-Effect Transistors. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3422-3432.	4.4	32
49	Investigation of the Mobility-Stretchability Relationship of Ester-Substituted Polythiophene Derivatives. <i>Macromolecules</i> , 2020, 53, 4968-4981.	4.8	22
50	Morphology and properties of PEDOT:PSS/soft polymer blends through hydrogen bonding interaction and their pressure sensor application. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6013-6024.	5.5	44
51	Development of Block Copolymers with Poly(3-hexylthiophene) Segments as Compatibilizers in Non-Fullerene Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 12083-12092.	8.0	19
52	Structure-Mobility Relationship of Benzodithiophene-Based Conjugated Polymers with Varied Biaxially Extended Conjugated Side Chains. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9105-9115.	3.7	14
53	Intrinsically stretchable isoindigo- <i>b</i> -thiophene conjugated copolymers using poly(acrylate amide) side chains for organic field-effect transistors. <i>Polymer Chemistry</i> , 2019, 10, 5172-5183.	3.9	33
54	Asymmetric Side-Chain Engineering of Isoindigo-Based Polymers for Improved Stretchability and Applications in Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 34158-34170.	8.0	50

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55	Multilevel Photonic Transistor Memory Devices Using Conjugated/Insulated Polymer Blend Electrets. ACS Applied Materials & Interfaces, 2019, 11, 42429-42437.	8.0	50
56	A compatible and crosslinked poly(2-allyl-6-methylphenol-co-2,6-dimethylphenol)/polystyrene blend for insulating adhesive film at high frequency. Journal of Applied Polymer Science, 2019, 136, 47828.	2.6	11
57	A rapid and green method for the fabrication of conductive hydrogels and their applications in stretchable supercapacitors. Journal of Power Sources, 2019, 426, 205-215.	7.8	77
58	High-performance carbon-coated ZnMn ₂ O ₄ nanocrystallite supercapacitors with tailored microstructures enabled by a novel solution combustion method. Journal of Power Sources, 2018, 378, 90-97.	7.8	87
59	Electrolytic Migration of Ag-Pd Alloy Wires with Various Pd Contents. Journal of Electronic Materials, 2018, 47, 3634-3638.	2.2	5
60	Effects of Current Stressing on the Grain Structure and Mechanical Properties of Ag-Alloy Bonding Wires with Various Pd and Au Contents. Metals, 2016, 6, 182.	2.3	4
61	Intermetallic Reactions during the Solid-Liquid Interdiffusion Bonding of Bi ₂ Te _{2.55} Se _{0.45} Thermoelectric Material with Cu Electrodes Using a Sn Interlayer. Metals, 2016, 6, 92.	2.3	11
62	Low-Temperature Bonding of Bi _{0.5} Sb _{1.5} Te ₃ Thermoelectric Material with Cu Electrodes Using a Thin-Film In Interlayer. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4767-4776.	2.2	5
63	Enhancing the Memory-Stretchability Property of π -Conjugated Polymers Using Pendant Arene Side Chains in Nonvolatile Transistor Memory. ACS Applied Polymer Materials, 0, , .	4.4	4