

# Yan-Cheng Lin

## List of Publications by Year in descending order

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63  
papers

1,404  
citations

304368

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377514

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63  
docs citations

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times ranked

958  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance carbon-coated ZnMn <sub>2</sub> O <sub>4</sub> nanocrystallite supercapacitors with tailored microstructures enabled by a novel solution combustion method. <i>Journal of Power Sources</i> , 2018, 378, 90-97.	4.0	87
2	High-Performance Nonvolatile Organic Photonic Transistor Memory Devices using Conjugated Rod-Coil Materials as a Floating Gate. <i>Advanced Materials</i> , 2020, 32, e2002638.	11.1	80
3	A rapid and green method for the fabrication of conductive hydrogels and their applications in stretchable supercapacitors. <i>Journal of Power Sources</i> , 2019, 426, 205-215.	4.0	77
4	Correlating the Molecular Structure of Polyimides with the Dielectric Constant and Dissipation Factor at a High Frequency of 10 GHz. <i>ACS Applied Polymer Materials</i> , 2021, 3, 362-371.	2.0	60
5	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.	3.2	57
6	Asymmetric Side-Chain Engineering of Isoindigo-Based Polymers for Improved Stretchability and Applications in Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 34158-34170.	4.0	50
7	Multilevel Photonic Transistor Memory Devices Using Conjugated/Insulated Polymer Blend Electrets. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 42429-42437.	4.0	50
8	Recent Advances in Organic Phototransistors: Nonvolatile Memory, Artificial Synapses, and Photodetectors. <i>Small Science</i> , 2022, 2, .	5.8	48
9	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.	2.7	44
10	Backbone Engineering of Diketopyrrolopyrrole-Based Conjugated Polymers through Random Terpolymerization for Improved Mobility-Stretchability Property. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 50648-50659.	4.0	43
11	Stretchable OFET Memories: Tuning the Morphology and the Charge-Trapping Ability of Conjugated Block Copolymers through Soft Segment Branching. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 2932-2943.	4.0	42
12	Self-Assembled Nanostructures of Quantum Dot/Conjugated Polymer Hybrids for Photonic Synaptic Transistors with Ultralow Energy Consumption and Zero-Gate Bias. <i>Advanced Functional Materials</i> , 2022, 32, 2107925.	7.8	42
13	Study on Intrinsic Stretchability of Diketopyrrolopyrrole-Based $\pi$ -Conjugated Copolymers with Poly(acrylamide) Side Chains for Organic Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 33014-33027.	4.0	41
14	Low-Energy Consumption and Electret-Free Photosynaptic Transistor Utilizing Poly(3-hexylthiophene)-Based Conjugated Block Copolymers. <i>Advanced Science</i> , 2022, 9, e2105190.	5.6	38
15	High Performance Biomass-Based Polyimides for Flexible Electronic Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 3278-3288.	3.2	34
16	Intrinsically stretchable isoindigo-bithiophene conjugated copolymers using poly(acrylate amide) side chains for organic field-effect transistors. <i>Polymer Chemistry</i> , 2019, 10, 5172-5183.	1.9	33
17	Thermally and Mechanically Stable Polyimides as Flexible Substrates for Organic Field-Effect Transistors. <i>ACS Applied Polymer Materials</i> , 2020, 2, 3422-3432.	2.0	32
18	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.	2.2	31

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19	Modulation of the Hydrophilicity on Asymmetric Side Chains of Isoindigo-Based Polymers for Improving Carrier Mobilityâ€“Stretchability Properties. <i>Macromolecules</i> , 2021, 54, 1665-1676.	2.2	30
20	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.	2.7	28
21	Conception of a Smart Artificial Retina Based on a Dualâ€“Mode Organic Sensing Inverter. <i>Advanced Science</i> , 2021, 8, e2100742.	5.6	27
22	Enhancing Longâ€“Term Thermal Stability of Nonâ€“Fullerene Organic Solar Cells Using Selfâ€“Assembly Amphiphilic Dendritic Block Copolymer Interlayers. <i>Advanced Functional Materials</i> , 2021, 31, 2005753.	7.8	25
23	Comprehensive Non-volatile Photo-programming Transistor Memory via a Dual-Functional Perovskite-Based Floating Gate. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 20417-20426.	4.0	25
24	Multilevel Photonic Transistor Memory Devices Based on 1D Electrospun Semiconducting Polymer /Perovskite Composite Nanofibers. <i>Advanced Materials Technologies</i> , 2021, 6, 2100080.	3.0	23
25	Investigation of the Mobilityâ€“Stretchability Relationship of Ester-Substituted Polythiophene Derivatives. <i>Macromolecules</i> , 2020, 53, 4968-4981.	2.2	22
26	Highly Efficient Photoâ€“Induced Recovery Conferred Using Chargeâ€“Transfer Supramolecular Electrets in Bistable Photonic Transistor Memory. <i>Advanced Functional Materials</i> , 2021, 31, 2102174.	7.8	22
27	Development of Block Copolymers with Poly(3-hexylthiophene) Segments as Compatibilizers in Non-Fullerene Organic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 12083-12092.	4.0	19
28	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.	2.0	19
29	Organicâ€“Inorganic Nanocomposite Film for Highâ€“Performance Stretchable Resistive Memory Device. <i>Macromolecular Rapid Communications</i> , 2020, 41, 1900542.	2.0	18
30	Fast Photoresponsive Phototransistor Memory Using Star-Shaped Conjugated Rodâ€“Coil Molecules as a Floating Gate. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 15468-15477.	4.0	16
31	Realizing fast photoinduced recovery with polyfluoreneâ€“poly(vinylphenyl) Tj ETQq1 1 0.784314 rgBT /OV Science, 2022, 60, 525-537.	2.0	15
32	Structureâ€“Mobility Relationship of Benzodithiophene-Based Conjugated Polymers with Varied Biaxially Extended Conjugated Side Chains. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 9105-9115.	1.8	14
33	Improving Mobilityâ€“Stretchability Properties of Polythiophene Derivatives through Ester-Substituted, Biaxially Extended Conjugated Side Chains. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1628-1637.	2.0	14
34	Liquid Crystalline Rylenediimides with Highly Order Smectic Layer Structure as a Floating Gate for Multiband Photoresponding Photonic Transistor Memory. <i>Advanced Electronic Materials</i> , 2022, 8, 2100798.	2.6	13
35	Organic liquid crystals in optoelectronic device applications: <sc>Fieldâ€“effect</sc> transistors, nonvolatile memory, and photovoltaics. <i>Journal of the Chinese Chemical Society</i> , 2022, 69, 1289-1304.	0.8	12
36	Intermetallic Reactions during the Solid-Liquid Interdiffusion Bonding of Bi <sub>2</sub> Te <sub>2.55</sub> Se <sub>0.45</sub> Thermoelectric Material with Cu Electrodes Using a Sn Interlayer. <i>Metals</i> , 2016, 6, 92.	1.0	11

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37	A compatible and crosslinked poly(2-allyl-6-methylphenol-co-2,6-dimethylphenol)/polystyrene blend for insulating adhesive film at high frequency. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47828.	1.3	11
38	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.	2.0	11
39	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.	2.0	10
40	Biomass-Derived Degradable Poly(azomethine)s for Flexible Bistable Photonic Transistor Memories. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 5268-5277.	3.2	10
41	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.	2.7	9
42	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.	3.2	9
43	Intrinsically stretchable naphthalenediimide-bithiophene conjugated statistical terpolymers using branched conjugation break spacers for field-effect transistors. <i>Polymer Chemistry</i> , 2021, 12, 6167-6178.	1.9	8
44	Multiband Photoresponding Field-Effect Transistor Memory Using Conjugated Block Copolymers with Pendant Isoindigo Coils as a Polymer Electret. <i>Advanced Electronic Materials</i> , 2021, 7, 2100655.	2.6	8
45	Hydrogel-based sustainable and stretchable field-effect transistors. <i>Organic Electronics</i> , 2022, 100, 106358.	1.4	8
46	Volatility Transition from Short-Term to Long-Term Photonic Transistor Memory by Using Smectic Liquid Crystalline Molecules as a Floating Gate. <i>Advanced Electronic Materials</i> , 2022, 8, 2101123.	2.6	8
47	Strain-insensitive naphthalene-diimide-based conjugated polymers through sequential regularity control. <i>Materials Chemistry Frontiers</i> , 2022, 6, 891-900.	3.2	7
48	Unraveling the Singlet Fission Effects on Charge Modulations of Organic Phototransistor Memory Devices. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1266-1276.	2.0	7
49	Low-Temperature Bonding of Bi <sub>0.5</sub> Sb <sub>1.5</sub> Te <sub>3</sub> Thermoelectric Material with Cu Electrodes Using a Thin-Film In Interlayer. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 4767-4776.	1.1	5
50	Electrolytic Migration of Ag-Pd Alloy Wires with Various Pd Contents. <i>Journal of Electronic Materials</i> , 2018, 47, 3634-3638.	1.0	5
51	Pyrene-Incorporated Side Chain in $\pi$ -Conjugated Polymers for Non-Volatile Transistor-Type Memory Devices with Improved Stretchability. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2109-2119.	2.0	5
52	Highly Thermal Stable Polyimides Applied in Flexible Resistive Memory. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100512.	1.7	5
53	Harnessing of Spatially Confined Perovskite Nanocrystals Using Polysaccharide-based Block Copolymer Systems. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 30279-30289.	4.0	5
54	Effects of Current Stressing on the Grain Structure and Mechanical Properties of Ag-Alloy Bonding Wires with Various Pd and Au Contents. <i>Metals</i> , 2016, 6, 182.	1.0	4

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55	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.	1.4	4
56	Enhancing the Memory-Stretchability Property of $\pi$ -Conjugated Polymers Using Pendant Arene Side Chains in Nonvolatile Transistor Memory. <i>ACS Applied Polymer Materials</i> , 0, , .	2.0	4
57	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.	3.2	3
58	Stretchable Multicolor Emission of Polymer/Dye Blends Induced by Intermolecular Interaction and Solid-State Aggregation. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2000428.	1.1	3
59	Highly Efficient Photo-Induced Recovery Conferred Using Charge-Transfer Supramolecular Electrets in Bistable Photonic Transistor Memory ( <i>Adv. Funct. Mater.</i> 40/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170299.	7.8	3
60	Self-Assembled Nanostructures of Quantum Dot/Conjugated Polymer Hybrids for Photonic Synaptic Transistors with Ultralow Energy Consumption and Zero-Gate Bias ( <i>Adv. Funct. Mater.</i> 6/2022). <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	3
61	Mechanically Tough and Durable Poly(siloxane imide) Network Elastomer for Stretchable Electronic Applications. <i>ACS Applied Polymer Materials</i> , 2022, 4, 3498-3510.	2.0	3
62	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.	1.2	2
63	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. <i>Materials Chemistry and Physics</i> , 2022, 281, 125911.	2.0	2