

# Chien-Chung Shih

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,761  
citations

279487

23  
h-index

329751

37  
g-index

38  
all docs

38  
docs citations

38  
times ranked

2091  
citing authors

#	ARTICLE	IF	CITATIONS
1	Topological supramolecular network enabled high-conductivity, stretchable organic bioelectronics. <i>Science</i> , 2022, 375, 1411-1417.	6.0	230
2	High-brightness all-polymer stretchable LED with charge-trapping dilution. <i>Nature</i> , 2022, 603, 624-630.	13.7	170
3	Conjugated Polymer Nanoparticles as Nano Floating Gate Electrets for High Performance Nonvolatile Organic Transistor Memory Devices. <i>Advanced Functional Materials</i> , 2015, 25, 1511-1519.	7.8	147
4	Nanostructured materials for non-volatile organic transistor memory applications. <i>Materials Horizons</i> , 2016, 3, 294-308.	6.4	103
5	Advances and challenges of green materials for electronics and energy storage applications: from design to end-of-life recovery. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20546-20563.	5.2	96
6	Stretchable Conjugated Rod-Coil Poly(3-hexylthiophene)- <i>block</i> -poly(butyl acrylate) Thin Films for Field Effect Transistor Applications. <i>Macromolecules</i> , 2017, 50, 1442-1452.	2.2	83
7	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
8	Stretchable Polymer Dielectrics for Low-Voltage-Driven Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 25522-25532.	4.0	76
9	High Performance Transparent Transistor Memory Devices Using Nano-Floating Gate of Polymer/ZnO Nanocomposites. <i>Scientific Reports</i> , 2016, 6, 20129.	1.6	68
10	In situ fabrication of conducting polymer composite film as a chemical resistive CO <sub>2</sub> gas sensor. <i>Microelectronic Engineering</i> , 2013, 111, 409-415.	1.1	62
11	Influence of polymeric electrets on the performance of derived hybrid perovskite-based photo-memory devices. <i>Nanoscale</i> , 2018, 10, 18869-18877.	2.8	57
12	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
13	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
14	A star polymer with a metallo-phthalocyanine core as a tunable charge storage material for nonvolatile transistor memory devices. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2724-2732.	2.7	38
15	Zeolite-Filled Porous Mixed Matrix Membranes for Air Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 2781-2789.	1.8	35
16	Bio-Based Transparent Conductive Film Consisting of Polyethylene Furanoate and Silver Nanowires for Flexible Optoelectronic Devices. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800271.	2.0	34
17	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
18	Mechanically robust, stretchable organic solar cells via buckle-on-elastomer strategy. <i>Organic Electronics</i> , 2018, 53, 339-345.	1.4	32

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19	Electrospun nanofibers with dual plasmonic-enhanced luminescent solar concentrator effects for high-performance organic photovoltaic cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 15039-15048.	5.2	30
20	Blends of polythiophene nanowire/fluorine rubber with multiscale phase separation suitable for stretchable semiconductors. <i>Polymer</i> , 2018, 155, 146-151.	1.8	30
21	Effect of a conjugated/elastic block sequence on the morphology and electronic properties of polythiophene based stretchable block copolymers. <i>Polymer Chemistry</i> , 2019, 10, 5452-5464.	1.9	29
22	Transparent deoxyribonucleic acid substrate with high mechanical strength for flexible and biocompatible organic resistive memory devices. <i>Chemical Communications</i> , 2016, 52, 13463-13466.	2.2	27
23	Intrinsically stretchable, solution-processable functional poly(siloxane-imide)s for stretchable resistive memory applications. <i>Polymer Chemistry</i> , 2018, 9, 5145-5154.	1.9	27
24	Nonvolatile memories using the electrets of conjugated rod-coil block copolymer and its nanocomposite with single wall carbon nanotubes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 551-558.	2.7	23
25	Enhancing the Mechanical Durability of an Organic Field Effect Transistor through a Fluoroelastomer Substrate with a Crosslinking-Induced Self-Wrinkled Structure. <i>Advanced Electronic Materials</i> , 2017, 3, 1600477.	2.6	22
26	Highly Reliable and Sensitive Tactile Transistor Memory. <i>Advanced Electronic Materials</i> , 2017, 3, 1600548.	2.6	19
27	Fabrication and Application of Highly Stretchable Conductive Fiber-Based Electrode of Epoxy/NBR Electrospun Fibers Spray-Coated with AgNW/PU Composites. <i>Macromolecular Chemistry and Physics</i> , 2019, 220, 1800387.	1.1	19
28	High-performance ternary polymer solar cells using wide-bandgap biaxially extended octithiophene-based conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2018, 6, 6920-6928.	2.7	15
29	The green poly-lysine enantiomers as electron-extraction layers for high performance organic photovoltaics. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12572-12579.	2.7	15
30	Emerging polymer electrets for transistor-structured memory devices and artificial synapses. <i>Journal of Materials Chemistry C</i> , 2022, 10, 13372-13394.	2.7	15
31	Donor-Acceptor Core-Shell Nanoparticles and Their Application in Non-Volatile Transistor Memory Devices. <i>Macromolecular Rapid Communications</i> , 2019, 40, 1900115.	2.0	11
32	Alcohol-Soluble Cross-Linked Poly( <i>n</i> BA)- <i>b</i> -Poly(NVTri) Block Copolymer and Its Applications in Organic Photovoltaic Cells for Improved Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 44741-44750.	4.0	10
33	A 1D Electrospun Nanofiber Channel for Organic Field-Effect Transistors Using a Donor/Acceptor Planar Heterojunction Architecture. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500054.	1.9	9
34	Enhancing performance of nonvolatile transistor memories via electron-accepting composition in triphenylamine-based random copolymers. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1113-1121.	2.5	9
35	Multi-state memristive behavior in a light-emitting electrochemical cell. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11421-11428.	2.7	6
36	A Robust, Air-Stable and Recyclable Hydrogel Toward Stretchable Electronic Device Applications. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800282.	1.7	6

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37	Organic Electronics: Conjugated Polymer Nanoparticles as Nano Floating Gate Electrets for High Performance Nonvolatile Organic Transistor Memory Devices (Adv. Funct. Mater. 10/2015). Advanced Functional Materials, 2015, 25, 1611-1611.	7.8	2