

# Wen-Ya Lee

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/9365726/wen-ya-lee-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105  
papers

3,629  
citations

35  
h-index

57  
g-index

109  
ext. papers

3,996  
ext. citations

7.4  
avg, IF

5.34  
L-index

#	Paper	IF	Citations
105	Polymer synaptic transistors from memory to neuromorphic computing. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 126263	4.4	0
104	Realizing Nonvolatile Photomemories with Multilevel Memory Behaviors Using Water-Processable Polymer Dots-Based Hybrid Floating Gates. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 1708-1718	4	8
103	Intrinsically stretchable polymer semiconductors: molecular design, processing and device applications. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 2660-2684	7.1	13
102	Solvent-Enhanced Transparent Stretchable Polymer Nanocomposite Electrode for Supercapacitors. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2266-2274	6.1	9
101	Semi-Interpenetrating Polymer Network Electrolytes Based on a Spiro-Twisted Benzoxazine for All-Solid-State Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 2663-2671	6.1	4
100	Tactile sensor based on capacitive structure <b>2021</b> , 31-52		1
99	Tactile sensors based on organic field-effect transistors <b>2021</b> , 53-66		
98	Tough Polymer Electrolyte with an Intrinsically Stabilized Interface with Li Metal for All-Solid-State Lithium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 26339-26347	3.8	0
97	Eco-Friendly Polyfluorene/Poly(butylene succinate) Blends and Their Electronic Device Application on Biodegradable Substrates. <i>ACS Applied Polymer Materials</i> , <b>2020</b> , 2, 2469-2476	4.3	7
96	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> , <b>2020</b> , 8, 6013-6024	7.1	24
95	Shear-Enhanced Stretchable Polymer Semiconducting Blends for Polymer-based Field-Effect Transistors. <i>Macromolecular Research</i> , <b>2020</b> , 28, 660-669	1.9	6
94	Solution-Processable Anion-doped Conjugated Polymer for Nonvolatile Organic Transistor Memory with Synaptic Behaviors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 33968-33978	9.5	18
93	Self-Powered, Self-Healed, and Shape-Adaptive Ultraviolet Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 9755-9765	9.5	17
92	An intrinsically stretchable and ultrasensitive nanofiber-based resistive pressure sensor for wearable electronics. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 5361-5369	7.1	19
91	Photo-Curable Ion-Enhanced Fluorinated Elastomers for Pressure-Sensitive Textiles. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 2070041	6	1
90	Electrospinning-induced elastomeric properties of conjugated polymers for extremely stretchable nanofibers and rubbery optoelectronics. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 873-882	7.1	20
89	Ultrahigh-Performance Self-Powered Flexible Photodetector Driven from Photogating, Piezo-Phototronic, and Ferroelectric Effects. <i>Advanced Optical Materials</i> , <b>2020</b> , 8, 1901334	8.1	12

88	Eco-friendly collagen-based bio-organic field effect transistor with improved memory characteristics. <i>Organic Electronics</i> , <b>2020</b> , 86, 105925	3.5	5
87	Photo-Curable Ion-Enhanced Fluorinated Elastomers for Pressure-Sensitive Textiles. <i>Advanced Intelligent Systems</i> , <b>2020</b> , 2, 1900180	6	5
86	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> , <b>2020</b> , 32, 7370-7382	9.6	27
85	Highly smooth and conductive silver film with metallo-organic decomposition ink for all-solution-processed flexible organic thin-film transistors. <i>Journal of Materials Science</i> , <b>2020</b> , 55, 159084-15918 <sup>8</sup>	4.3	18
84	Smart garment energy generators fabricated using stretchable electrospun nanofibers. <i>Reactive and Functional Polymers</i> , <b>2019</b> , 142, 96-103	4.6	16
83	Graphene Memory Based on a Tunable Nanometer-Thin Water Layer. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 10842-10848	3.8	4
82	Self-Healing Nanophotonics: Robust and Soft Random Lasers. <i>ACS Nano</i> , <b>2019</b> , 13, 8977-8985	16.7	6
81	Seeing pressure in color based on integration of highly sensitive pressure sensor and emission tunable light emitting diode. <i>Optics Express</i> , <b>2019</b> , 27, 35448-35467	3.3	1
80	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> , <b>2019</b> , 220, 1800387	2.6	13
79	Scalable Wet Deposition of Zeolite AEI with a High Degree of Preferred Crystal Orientation. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 13271-13276	16.4	8
78	Interfacial effects on solution-sheared thin-film transistors. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 12006-12015	7.1	11
77	Bio-Based Transparent Conductive Film Consisting of Polyethylene Furanoate and Silver Nanowires for Flexible Optoelectronic Devices. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, e1800271	4.8	29
76	Atmospheric Pressure Plasma Jet-Assisted Synthesis of Zeolite-Based Low-k Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 900-908	9.5	11
75	Direct wet deposition of zeolite FAU thin films using stabilized colloidal suspensions. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 272, 286-295	5.3	8
74	Stretchable Fluorescent Polyfluorene/Acrylonitrile Butadiene Rubber Blend Electrospun Fibers through Physical Interaction and Geometrical Confinement. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, 1700616	4.8	10
73	n-Type Doped Conjugated Polymer for Nonvolatile Memory. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605166	24	47
72	Highly Reliable and Sensitive Tactile Transistor Memory. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 16005486.4	6.4	15
71	Highly transparent polyimide/nanocrystalline-zirconium dioxide hybrid materials for organic thin film transistor applications. <i>Organic Electronics</i> , <b>2017</b> , 48, 19-28	3.5	9

70	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> , <b>2017</b> , 3, 1600477	6.4	18
69	Effects of Molecular Structure and Packing Order on the Stretchability of Semicrystalline Conjugated Poly(Tetrathienoacene-diketopyrrolopyrrole) Polymers. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600311	6.4	66
68	Surfactant-mediated self-assembly of nanocrystals to form hierarchically structured zeolite thin films with controlled crystal orientation. <i>RSC Advances</i> , <b>2017</b> , 7, 49048-49055	3.7	5
67	Stretchable Polymer Dielectrics for Low-Voltage-Driven Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 25522-25532	9.5	61
66	Organic/Inorganic Nano-hybrids with High Dielectric Constant for Organic Thin Film Transistor Applications. <i>Nanoscale Research Letters</i> , <b>2016</b> , 11, 488	5	10
65	Relationships between the solution and solid-state properties of solution-cast low-k silica thin films. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 20371-80	3.6	3
64	High Performance Transparent Transistor Memory Devices Using Nano-Floating Gate of Polymer/ZnO Nanocomposites. <i>Scientific Reports</i> , <b>2016</b> , 6, 20129	4.9	60
63	Capacitance Characterization of Elastomeric Dielectrics for Applications in Intrinsically Stretchable Thin Film Transistors. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 4680-4686	15.6	68
62	Manipulation of electrical characteristics of non-volatile transistor-type memory devices through the acceptor strength of donor-acceptor conjugated copolymers. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 5702-5708	7.1	15
61	Synthesis, morphology, and electrical memory application of oligosaccharide-based block copolymers with conjugated pyrene moieties and their supramolecules. <i>Polymer Chemistry</i> , <b>2016</b> , 7, 1249-1263	4.9	12
60	High-performance non-volatile transistor memory devices using charge-transfer supramolecular electrets. <i>Reactive and Functional Polymers</i> , <b>2016</b> , 108, 31-38	4.6	6
59	Nanostructured materials for non-volatile organic transistor memory applications. <i>Materials Horizons</i> , <b>2016</b> , 3, 294-308	14.4	84
58	OFETs: BASIC CONCEPTS AND MATERIAL DESIGNS. <i>Materials and Energy</i> , <b>2016</b> , 19-83		4
57	Stimuli-responsive conjugated rod-coil block copolymers: Synthesis, morphology, and applications. <i>Polymer</i> , <b>2015</b> , 65, A1-A16	3.9	22
56	Organic Electronics: Conjugated Polymer Nanoparticles as Nano Floating Gate Electrets for High Performance Nonvolatile Organic Transistor Memory Devices (Adv. Funct. Mater. 10/2015). <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1611-1611	15.6	1
55	Bulky end-capped [1]benzothieno[3,2-b]benzothiophenes: reaching high-mobility organic semiconductors by fine tuning of the crystalline solid-state order. <i>Advanced Materials</i> , <b>2015</b> , 27, 3066-72 <sup>24</sup>		133
54	Thienoacene dimers based on the thieno[3,2-b]thiophene moiety: synthesis, characterization and electronic properties. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 674-685	7.1	52
53	Field-Effect Transistors: Oligosaccharide Carbohydrate Dielectrics toward High-Performance Non-volatile Transistor Memory Devices (Adv. Mater. 40/2015). <i>Advanced Materials</i> , <b>2015</b> , 27, 6256-6256 <sup>24</sup>		

52	Significance of the double-layer capacitor effect in polar rubbery dielectrics and exceptionally stable low-voltage high transconductance organic transistors. <i>Scientific Reports</i> , <b>2015</b> , 5, 17849	4.9	53
51	P-58: Highly Stable Organic Thin-Film Transistor array Fabricated on Gorilla Glass Substrates using Direct Photolithography. <i>Digest of Technical Papers SID International Symposium</i> , <b>2015</b> , 46, 1359-1361	0.5	
50	Oligosaccharide Carbohydrate Dielectrics toward High-Performance Non-volatile Transistor Memory Devices. <i>Advanced Materials</i> , <b>2015</b> , 27, 6257-64	24	49
49	Effect of Spacer Length of Siloxane-Terminated Side Chains on Charge Transport in Isoindigo-Based Polymer Semiconductor Thin Films. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3455-3462	15.6	74
48	Non-volatile organic transistor memory devices using the poly(4-vinylpyridine)-based supramolecular electrets. <i>Chemical Communications</i> , <b>2015</b> , 51, 2562-4	5.8	17
47	Synthesis of Oligosaccharide-Based Block Copolymers with Pendent $\pi$ -Conjugated Oligofluorene Moieties and Their Electrical Device Applications. <i>Macromolecules</i> , <b>2015</b> , 48, 3907-3917	5.5	24
46	Conjugated Polymer Nanoparticles as Nano Floating Gate Electrets for High Performance Nonvolatile Organic Transistor Memory Devices. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 1511-1519	15.6	132
45	High performance top contact fused thiophene $\pi$ -diketopyrrolopyrrole copolymer transistors using a photolithographic metal lift-off process. <i>Organic Electronics</i> , <b>2015</b> , 20, 55-62	3.5	9
44	Fluorene based donor-acceptor polymer electrets for nonvolatile organic transistor memory device applications. <i>Journal of Polymer Science Part A</i> , <b>2015</b> , 53, 602-614	2.5	18
43	Effect of Non-Chlorinated Mixed Solvents on Charge Transport and Morphology of Solution-Processed Polymer Field-Effect Transistors. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3524-3534	15.6	73
42	Syntheses of Biaxially Extended Octithiophene-Based Conjugated Copolymers for High-Open-Circuit-Voltage Photovoltaic-Cell Applications. <i>Macromolecular Chemistry and Physics</i> , <b>2014</b> , 215, 638-647	2.6	6
41	High performance tetrathienoacene-DDP based polymer thin-film transistors using a photo-patternable epoxy gate insulating layer. <i>Organic Electronics</i> , <b>2014</b> , 15, 991-996	3.5	7
40	A Rapid and Facile Soft Contact Lamination Method: Evaluation of Polymer Semiconductors for Stretchable Transistors. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 4544-4551	9.6	82
39	High performance organic thin film transistors using chemically modified bottom contacts and dielectric surfaces. <i>Organic Electronics</i> , <b>2014</b> , 15, 2073-2078	3.5	10
38	Understanding polymorphism in organic semiconductor thin films through nanoconfinement. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 17046-57	16.4	155
37	Compressive stress profiles of chemically strengthened glass after exposure to high voltage electric fields. <i>Journal of Non-Crystalline Solids</i> , <b>2014</b> , 394-395, 6-8	3.9	8
36	Experimental improvement of preparation of acrylic acid-modified middle deacetylated chitosan and its application in absorbing paraquat. <i>Polymer Engineering and Science</i> , <b>2013</b> , 53, 468-473	2.3	3
35	Highly air stable branched octithiophene oligomer for organic field effect transistor and pH sensor applications. <i>Materials Chemistry and Physics</i> , <b>2013</b> , 138, 542-552	4.4	10

34	Side-Chain Engineering of Isoindigo-Containing Conjugated Polymers Using Polystyrene for High-Performance Bulk Heterojunction Solar Cells. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4874-4880	9.6	122
33	Thiolene Cross-Linked Polymer Gate Dielectrics for Low-Voltage Organic Thin-Film Transistors. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4806-4812	9.6	80
32	Conjugated Polymer-Mediated Polymorphism of a High Performance, Small-Molecule Organic Semiconductor with Tuned Intermolecular Interactions, Enhanced Long-Range Order, and Charge Transport. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 4378-4386	9.6	70
31	Nonvolatile transistor memory devices using high dielectric constant polyimide electrets. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 3235	7.1	52
30	Scalable Synthesis of Fused Thiophene-Diketopyrrolopyrrole Semiconducting Polymers Processed from Nonchlorinated Solvents into High Performance Thin Film Transistors. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 782-789	9.6	110
29	Multilevel nonvolatile transistor memories using a star-shaped poly((4-diphenylamino)benzyl methacrylate) gate electret. <i>NPG Asia Materials</i> , <b>2013</b> , 5, e35-e35	10.3	61
28	Nonvolatile memory based on pentacene organic field-effect transistors with polystyrene-para-substituted oligofluorene pendent moieties as polymer electrets. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 5820		76
27	Biaxially Extended Quaterthiophene and Octithiophene Vinylene Conjugated Polymers for High Performance Field Effect Transistors and Photovoltaic Cells. <i>Macromolecules</i> , <b>2012</b> , 45, 3047-3056	5.5	26
26	Improving the characteristics of an organic nano floating gate memory by a self-assembled monolayer. <i>Nanoscale</i> , <b>2012</b> , 4, 6629-36	7.7	29
25	Biaxially extended quaterthiophene-thiophene and -selenophene conjugated polymers for optoelectronic device applications. <i>Polymer Chemistry</i> , <b>2012</b> , 3, 767	4.9	32
24	Morphology and field-effect transistor characteristics of semicrystalline poly(3-hexylthiophene) and poly(stearyl acrylate) blend nanowires. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14682		19
23	Thiophene and Selenophene Donor-Acceptor Polyimides as Polymer Electrets for Nonvolatile Transistor Memory Devices. <i>Macromolecules</i> , <b>2012</b> , 45, 6946-6956	5.5	73
22	Synthesis, morphology, and field-effect transistor characteristics of new crystalline-crystalline diblock copolymers of poly(3-hexylthiophene-block-steryl acrylate). <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 686-695	2.5	10
21	Selenophene-DPP donor-acceptor conjugated polymer for high performance ambipolar field effect transistor and nonvolatile memory applications. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 2120-2128		133
20	Self-Assembled Nanowires of Organic n-Type Semiconductor for Nonvolatile Transistor Memory Devices. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 4352-4359	15.6	40
19	A poly(fluorene-thiophene) donor with a tethered phenanthro[9,10-d]imidazole acceptor for flexible nonvolatile flash resistive memory devices. <i>Chemical Communications</i> , <b>2012</b> , 48, 9135-7	5.8	70
18	Synthesis, properties, and electrical memory characteristics of new diblock copolymers of polystyrene-block-poly(styrene-pyrene). <i>Polymer Bulletin</i> , <b>2012</b> , 69, 29-47	2.4	
17	New Donor-Acceptor Oligoimides for High-Performance Nonvolatile Memory Devices. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 4487-4497	9.6	92



16	High-Performance FETs Prepared From Electrospun Aligned P4TDPP Nanofibers. <i>Macromolecular Chemistry and Physics</i> , <b>2011</b> , 212, 2452-2458	2.6	20
15	High-Mobility Air-Stable Solution-Shear-Processed n-Channel Organic Transistors Based on Core-Chlorinated Naphthalene Diimides. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 4173-4181	15.6	76
14	Solution-shear-processed quaterylene diimide thin-film transistors prepared by pressure-assisted thermal cleavage of swallow tails. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 4204-7	16.4	64
13	Biaxially Extended Thiophene-Based Thiophene Conjugated Copolymers for High Performance Field Effect Transistors. <i>Macromolecules</i> , <b>2011</b> , 44, 9565-9573	5.5	28
12	Electrically bistable memory devices based on all-conjugated block copolythiophenes and their PCBM composite films. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 14502		40
11	New poly(4,4'-dicyano-4'-vinyl-triphenylamine) host material for single-layer Ir complex phosphorescent light-emitting devices. <i>Polymer Journal</i> , <b>2010</b> , 42, 327-335	2.7	10
10	New Two-Dimensional Thiophene-Acceptor Conjugated Copolymers for Field Effect Transistor and Photovoltaic Cell Applications. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 3290-3299	9.6	95
9	High-Performance Air-Stable n-Type Organic Transistors Based on Core-Chlorinated Naphthalene Tetracarboxylic Diimides. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 2148-2156	15.6	210
8	Photovoltaic properties of low-band-gap fluorene-based donor-acceptor copolymers. <i>Thin Solid Films</i> , <b>2010</b> , 518, 2119-2123	2.2	11
7	High hole mobility from thiophene-thienopyrazine copolymer based thin film transistors. <i>Journal of Polymer Research</i> , <b>2009</b> , 16, 239-244	2.7	5
6	New Didecyloxyphenylene-Acceptor Alternating Conjugated Copolymers: Synthesis, Properties, and Optoelectronic Device Applications. <i>Macromolecules</i> , <b>2008</b> , 41, 6952-6959	5.5	69
5	Synthesis of New Fluorene-Indolocarbazole Alternating Copolymers for Light-Emitting Diodes and Field Effect Transistors. <i>Polymer Journal</i> , <b>2008</b> , 40, 249-255	2.7	21
4	Effects of Acceptors on the Electronic and Optoelectronic Properties of Fluorene-Based Donor-Acceptor Copolymers. <i>Macromolecular Chemistry and Physics</i> , <b>2007</b> , 208, 1919-1927	2.6	52
3	Poly(triarylamine): Its synthesis, properties, and blend with polyfluorene for white-light electroluminescence. <i>Journal of Polymer Science Part A</i> , <b>2007</b> , 45, 1727-1736	2.5	16
2	Photophysical and electroluminescent properties of fluorene-based binary and ternary donor-acceptor polymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2007</b> , 45, 67-78	2.6	23
1	New Fluorene-Acceptor Random Copolymers: Towards Pure White Light Emission from a Single Polymer. <i>Macromolecular Chemistry and Physics</i> , <b>2006</b> , 207, 1131-1138	2.6	46