

Wen-Ya Lee

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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	High-Performance Air-Stable n-Type Organic Transistors Based on Core-Chlorinated Naphthalene Tetracarboxylic Diimides. <i>Advanced Functional Materials</i> , 2010 , 20, 2148-2156	15.6	210
104	Understanding polymorphism in organic semiconductor thin films through nanoconfinement. <i>Journal of the American Chemical Society</i> , 2014 , 136, 17046-57	16.4	155
103	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> , 2015 , 27, 3066-72 ²⁴		133
102	Selenophene-DPP donor-acceptor conjugated polymer for high performance ambipolar field effect transistor and nonvolatile memory applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2120-2128		133
101	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	15.6	132
100	Side-Chain Engineering of Isoindigo-Containing Conjugated Polymers Using Polystyrene for High-Performance Bulk Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 4874-4880	9.6	122
99	Scalable Synthesis of Fused Thiophene-Diketopyrrolopyrrole Semiconducting Polymers Processed from Nonchlorinated Solvents into High Performance Thin Film Transistors. <i>Chemistry of Materials</i> , 2013 , 25, 782-789	9.6	110
98	New Two-Dimensional Thiophene-acceptor Conjugated Copolymers for Field Effect Transistor and Photovoltaic Cell Applications. <i>Chemistry of Materials</i> , 2010 , 22, 3290-3299	9.6	95
97	New Donor-acceptor Oligoimides for High-Performance Nonvolatile Memory Devices. <i>Chemistry of Materials</i> , 2011 , 23, 4487-4497	9.6	92
96	Nanostructured materials for non-volatile organic transistor memory applications. <i>Materials Horizons</i> , 2016 , 3, 294-308	14.4	84
95	A Rapid and Facile Soft Contact Lamination Method: Evaluation of Polymer Semiconductors for Stretchable Transistors. <i>Chemistry of Materials</i> , 2014 , 26, 4544-4551	9.6	82
94	Thiol-ene Cross-Linked Polymer Gate Dielectrics for Low-Voltage Organic Thin-Film Transistors. <i>Chemistry of Materials</i> , 2013 , 25, 4806-4812	9.6	80
93	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> , 2012 , 22, 5820		76
92	High-Mobility Air-Stable Solution-Shear-Processed n-Channel Organic Transistors Based on Core-Chlorinated Naphthalene Diimides. <i>Advanced Functional Materials</i> , 2011 , 21, 4173-4181	15.6	76
91	Effect of Spacer Length of Siloxane-Terminated Side Chains on Charge Transport in Isoindigo-Based Polymer Semiconductor Thin Films. <i>Advanced Functional Materials</i> , 2015 , 25, 3455-3462	15.6	74
90	Effect of Non-Chlorinated Mixed Solvents on Charge Transport and Morphology of Solution-Processed Polymer Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2014 , 24, 3524-3534 ^{15.6}		73
89	Thiophene and Selenophene Donor-acceptor Polyimides as Polymer Electrets for Nonvolatile Transistor Memory Devices. <i>Macromolecules</i> , 2012 , 45, 6946-6956	5.5	73

88	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> , 2013 , 25, 4378-4386	9.6	70
87	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> , 2012 , 48, 9135-7	5.8	70
86	New Didecyloxyphenylene-Acceptor Alternating Conjugated Copolymers: Synthesis, Properties, and Optoelectronic Device Applications. <i>Macromolecules</i> , 2008 , 41, 6952-6959	5.5	69
85	Capacitance Characterization of Elastomeric Dielectrics for Applications in Intrinsically Stretchable Thin Film Transistors. <i>Advanced Functional Materials</i> , 2016 , 26, 4680-4686	15.6	68
84	Effects of Molecular Structure and Packing Order on the Stretchability of Semicrystalline Conjugated Poly(Tetrathienoacene-diketopyrrolopyrrole) Polymers. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600311	6.4	66
83	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> , 2011 , 133, 4204-7	16.4	64
82	Stretchable Polymer Dielectrics for Low-Voltage-Driven Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25522-25532	9.5	61
81	Multilevel nonvolatile transistor memories using a star-shaped poly((4-diphenylamino)benzyl methacrylate) gate electret. <i>NPG Asia Materials</i> , 2013 , 5, e35-e35	10.3	61
80	High Performance Transparent Transistor Memory Devices Using Nano-Floating Gate of Polymer/ZnO Nanocomposites. <i>Scientific Reports</i> , 2016 , 6, 20129	4.9	60
79	Significance of the double-layer capacitor effect in polar rubbery dielectrics and exceptionally stable low-voltage high transconductance organic transistors. <i>Scientific Reports</i> , 2015 , 5, 17849	4.9	53
78	Thienoacene dimers based on the thieno[3,2-b]thiophene moiety: synthesis, characterization and electronic properties. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 674-685	7.1	52
77	Nonvolatile transistor memory devices using high dielectric constant polyimide electrets. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 3235	7.1	52
76	Effects of Acceptors on the Electronic and Optoelectronic Properties of Fluorene-Based Donor-Acceptor Donor Copolymers. <i>Macromolecular Chemistry and Physics</i> , 2007 , 208, 1919-1927	2.6	52
75	Oligosaccharide Carbohydrate Dielectrics toward High-Performance Non-volatile Transistor Memory Devices. <i>Advanced Materials</i> , 2015 , 27, 6257-64	24	49
74	n-Type Doped Conjugated Polymer for Nonvolatile Memory. <i>Advanced Materials</i> , 2017 , 29, 1605166	24	47
73	New Fluorene-Acceptor Random Copolymers: Towards Pure White Light Emission from a Single Polymer. <i>Macromolecular Chemistry and Physics</i> , 2006 , 207, 1131-1138	2.6	46
72	Self-Assembled Nanowires of Organic n-Type Semiconductor for Nonvolatile Transistor Memory Devices. <i>Advanced Functional Materials</i> , 2012 , 22, 4352-4359	15.6	40
71	Electrically bistable memory devices based on all-conjugated block copolythiophenes and their PCBM composite films. <i>Journal of Materials Chemistry</i> , 2011 , 21, 14502		40

70	Biaxially extended quaterthiophene-thiophene and -selenophene conjugated polymers for optoelectronic device applications. <i>Polymer Chemistry</i> , 2012 , 3, 767	4.9	32
69	Bio-Based Transparent Conductive Film Consisting of Polyethylene Furanoate and Silver Nanowires for Flexible Optoelectronic Devices. <i>Macromolecular Rapid Communications</i> , 2018 , 39, e1800271	4.8	29
68	Improving the characteristics of an organic nano floating gate memory by a self-assembled monolayer. <i>Nanoscale</i> , 2012 , 4, 6629-36	7.7	29
67	Biaxially Extended Thiophene-Based Thiophene Conjugated Copolymers for High Performance Field Effect Transistors. <i>Macromolecules</i> , 2011 , 44, 9565-9573	5.5	28
66	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	9.6	27
65	Biaxially Extended Quaterthiophene and Octithiophene-Vinylene Conjugated Polymers for High Performance Field Effect Transistors and Photovoltaic Cells. <i>Macromolecules</i> , 2012 , 45, 3047-3056	5.5	26
64	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	7.1	24
63	Synthesis of Oligosaccharide-Based Block Copolymers with Pendant Conjugated Oligofluorene Moieties and Their Electrical Device Applications. <i>Macromolecules</i> , 2015 , 48, 3907-3917	5.5	24
62	Photophysical and electroluminescent properties of fluorene-based binary and ternary donor-acceptor polymer blends. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 67-78	2.6	23
61	Stimuli-responsive conjugated rod-coil block copolymers: Synthesis, morphology, and applications. <i>Polymer</i> , 2015 , 65, A1-A16	3.9	22
60	Synthesis of New Fluorene-Indolocarbazole Alternating Copolymers for Light-Emitting Diodes and Field Effect Transistors. <i>Polymer Journal</i> , 2008 , 40, 249-255	2.7	21
59	High-Performance FETs Prepared From Electrospun Aligned P4TDPP Nanofibers. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 2452-2458	2.6	20
58	Electrospinning-induced elastomeric properties of conjugated polymers for extremely stretchable nanofibers and rubbery optoelectronics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 873-882	7.1	20
57	An intrinsically stretchable and ultrasensitive nanofiber-based resistive pressure sensor for wearable electronics. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 5361-5369	7.1	19
56	Morphology and field-effect transistor characteristics of semicrystalline poly(3-hexylthiophene) and poly(stearyl acrylate) blend nanowires. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14682		19
55	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	6.4	18
54	Solution-Processable Anion-doped Conjugated Polymer for Nonvolatile Organic Transistor Memory with Synaptic Behaviors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 33968-33978	9.5	18
53	Fluorene based donor-acceptor polymer electrets for nonvolatile organic transistor memory device applications. <i>Journal of Polymer Science Part A</i> , 2015 , 53, 602-614	2.5	18

52	Self-Powered, Self-Healed, and Shape-Adaptive Ultraviolet Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 9755-9765	9.5	17
51	Non-volatile organic transistor memory devices using the poly(4-vinylpyridine)-based supramolecular electrets. <i>Chemical Communications</i> , 2015 , 51, 2562-4	5.8	17
50	Smart garment energy generators fabricated using stretchable electrospun nanofibers. <i>Reactive and Functional Polymers</i> , 2019 , 142, 96-103	4.6	16
49	Poly(triarylamine): Its synthesis, properties, and blend with polyfluorene for white-light electroluminescence. <i>Journal of Polymer Science Part A</i> , 2007 , 45, 1727-1736	2.5	16
48	Highly Reliable and Sensitive Tactile Transistor Memory. <i>Advanced Electronic Materials</i> , 2017 , 3, 16005486.4	6.4	15
47	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> , 2016 , 4, 5702-5708	7.1	15
46	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	2.6	13
45	Intrinsically stretchable polymer semiconductors: molecular design, processing and device applications. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2660-2684	7.1	13
44	Synthesis, morphology, and electrical memory application of oligosaccharide-based block copolymers with conjugated pyrene moieties and their supramolecules. <i>Polymer Chemistry</i> , 2016 , 7, 1249-1263	4.9	12
43	Ultrahigh-Performance Self-Powered Flexible Photodetector Driven from Photogating, Piezo-Phototronic, and Ferroelectric Effects. <i>Advanced Optical Materials</i> , 2020 , 8, 1901334	8.1	12
42	Interfacial effects on solution-sheared thin-film transistors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12006-12015	7.1	11
41	Photovoltaic properties of low-band-gap fluorene-based donor-acceptor copolymers. <i>Thin Solid Films</i> , 2010 , 518, 2119-2123	2.2	11
40	Atmospheric Pressure Plasma Jet-Assisted Synthesis of Zeolite-Based Low-k Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 900-908	9.5	11
39	Organic/Inorganic Nano-hybrids with High Dielectric Constant for Organic Thin Film Transistor Applications. <i>Nanoscale Research Letters</i> , 2016 , 11, 488	5	10
38	High performance organic thin film transistors using chemically modified bottom contacts and dielectric surfaces. <i>Organic Electronics</i> , 2014 , 15, 2073-2078	3.5	10
37	Highly air stable branched octithiophene oligomer for organic field effect transistor and pH sensor applications. <i>Materials Chemistry and Physics</i> , 2013 , 138, 542-552	4.4	10
36	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> , 2012 , 50, 686-695	2.5	10
35	New poly(4,4'-dicyano-4'-vinyl-triphenylamine) host material for single-layer Ir complex phosphorescent light-emitting devices. <i>Polymer Journal</i> , 2010 , 42, 327-335	2.7	10

34	Stretchable Fluorescent Polyfluorene/Acrylonitrile Butadiene Rubber Blend Electrospun Fibers through Physical Interaction and Geometrical Confinement. <i>Macromolecular Rapid Communications</i> , 2018 , 39, 1700616	4.8	10
33	Highly transparent polyimide/nanocrystalline-zirconium dioxide hybrid materials for organic thin film transistor applications. <i>Organic Electronics</i> , 2017 , 48, 19-28	3.5	9
32	High performance top contact fused thiophene-diketopyrrolopyrrole copolymer transistors using a photolithographic metal lift-off process. <i>Organic Electronics</i> , 2015 , 20, 55-62	3.5	9
31	Solvent-Enhanced Transparent Stretchable Polymer Nanocomposite Electrode for Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2266-2274	6.1	9
30	Scalable Wet Deposition of Zeolite AEI with a High Degree of Preferred Crystal Orientation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 13271-13276	16.4	8
29	Compressive stress profiles of chemically strengthened glass after exposure to high voltage electric fields. <i>Journal of Non-Crystalline Solids</i> , 2014 , 394-395, 6-8	3.9	8
28	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> , 2020 , 55, 15908-15918 ⁸	4.3	8
27	Realizing Nonvolatile Photomemories with Multilevel Memory Behaviors Using Water-Processable Polymer Dots-Based Hybrid Floating Gates. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 1708-1718	4	8
26	Direct wet deposition of zeolite FAU thin films using stabilized colloidal suspensions. <i>Microporous and Mesoporous Materials</i> , 2018 , 272, 286-295	5.3	8
25	Eco-Friendly Polyfluorene/Poly(butylene succinate) Blends and Their Electronic Device Application on Biodegradable Substrates. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 2469-2476	4.3	7
24	High performance tetrathienoacene-DDP based polymer thin-film transistors using a photo-patternable epoxy gate insulating layer. <i>Organic Electronics</i> , 2014 , 15, 991-996	3.5	7
23	Shear-Enhanced Stretchable Polymer Semiconducting Blends for Polymer-based Field-Effect Transistors. <i>Macromolecular Research</i> , 2020 , 28, 660-669	1.9	6
22	Self-Healing Nanophotonics: Robust and Soft Random Lasers. <i>ACS Nano</i> , 2019 , 13, 8977-8985	16.7	6
21	Syntheses of Biaxially Extended Octithiophene-Based Conjugated Copolymers for High-Open-Circuit-Voltage Photovoltaic-Cell Applications. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 638-647	2.6	6
20	High-performance non-volatile transistor memory devices using charge-transfer supramolecular electrets. <i>Reactive and Functional Polymers</i> , 2016 , 108, 31-38	4.6	6
19	Surfactant-mediated self-assembly of nanocrystals to form hierarchically structured zeolite thin films with controlled crystal orientation. <i>RSC Advances</i> , 2017 , 7, 49048-49055	3.7	5
18	High hole mobility from thiophene-thienopyrazine copolymer based thin film transistors. <i>Journal of Polymer Research</i> , 2009 , 16, 239-244	2.7	5
17	Eco-friendly collagen-based bio-organic field effect transistor with improved memory characteristics. <i>Organic Electronics</i> , 2020 , 86, 105925	3.5	5

16	Photo-Curable Ion-Enhanced Fluorinated Elastomers for Pressure-Sensitive Textiles. <i>Advanced Intelligent Systems</i> , 2020 , 2, 1900180	6	5
15	Graphene Memory Based on a Tunable Nanometer-Thin Water Layer. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10842-10848	3.8	4
14	OFETs: BASIC CONCEPTS AND MATERIAL DESIGNS. <i>Materials and Energy</i> , 2016 , 19-83		4
13	Semi-Interpenetrating Polymer Network Electrolytes Based on a Spiro-Twisted Benzoxazine for All-Solid-State Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 2663-2671	6.1	4
12	Relationships between the solution and solid-state properties of solution-cast low-k silica thin films. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 20371-80	3.6	3
11	Experimental improvement of preparation of acrylic acid-modified middle deacetylated chitosan and its application in absorbing paraquat. <i>Polymer Engineering and Science</i> , 2013 , 53, 468-473	2.3	3
10	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> , 2015 , 25, 1611-1611	15.6	1
9	Photo-Curable Ion-Enhanced Fluorinated Elastomers for Pressure-Sensitive Textiles. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2070041	6	1
8	Seeing pressure in color based on integration of highly sensitive pressure sensor and emission tunable light emitting diode. <i>Optics Express</i> , 2019 , 27, 35448-35467	3.3	1
7	Tactile sensor based on capacitive structure 2021 , 31-52		1
6	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> , 2021 , 125, 26339-26347	3.8	0
5	Polymer synaptic transistors from memory to neuromorphic computing. <i>Materials Chemistry and Physics</i> , 2022 , 126263	4.4	0
4	Field-Effect Transistors: Oligosaccharide Carbohydrate Dielectrics toward High-Performance Non-volatile Transistor Memory Devices (Adv. Mater. 40/2015). <i>Advanced Materials</i> , 2015 , 27, 6256-6256 ²⁴		
3	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> , 2015 , 46, 1359-1361	0.5	
2	Synthesis, properties, and electrical memory characteristics of new diblock copolymers of polystyrene-block-poly(styrene-pyrene). <i>Polymer Bulletin</i> , 2012 , 69, 29-47	2.4	
1	Tactile sensors based on organic field-effect transistors 2021 , 53-66		