

Hung-Chin Wu

List of Publications by Year in Descending Order

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

74
papers

2,879
citations

33
h-index

51
g-index

75
ext. papers

3,699
ext. citations

11.4
avg, IF

5.16
L-index

#	Paper	IF	Citations
74	Topological supramolecular network enabled high-conductivity, stretchable organic bioelectronics.. <i>Science</i> , 2022 , 375, 1411-1417	33.3	29
73	High-brightness all-polymer stretchable LED with charge-trapping dilution.. <i>Nature</i> , 2022 , 603, 624-630	50.4	24
72	High-frequency and intrinsically stretchable polymer diodes. <i>Nature</i> , 2021 , 600, 246-252	50.4	34
71	A design strategy for high mobility stretchable polymer semiconductors. <i>Nature Communications</i> , 2021 , 12, 3572	17.4	27
70	Monolithic optical microlithography of high-density elastic circuits. <i>Science</i> , 2021 , 373, 88-94	33.3	41
69	Tuning Conjugated Polymer Chain Packing for Stretchable Semiconductors. <i>Advanced Materials</i> , 2021 , e2104747	24	10
68	MetalLigand Based Mechanophores Enhance Both Mechanical Robustness and Electronic Performance of Polymer Semiconductors. <i>Advanced Functional Materials</i> , 2021 , 31, 2009201	15.6	9
67	F4-TCNQ as an Additive to Impart Stretchable Semiconductors with High Mobility and Stability. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000251	6.4	18
66	Tuning the Mechanical Properties of a Polymer Semiconductor by Modulating Hydrogen Bonding Interactions. <i>Chemistry of Materials</i> , 2020 , 32, 5700-5714	9.6	37
65	Engineering Supramolecular Polymer Conformation for Efficient Carbon Nanotube Sorting. <i>Small</i> , 2020 , 16, e2000923	11	2
64	A Highly Stretchable and Self-Healing Supramolecular Elastomer Based on Sliding Crosslinks and Hydrogen Bonds. <i>Advanced Functional Materials</i> , 2020 , 30, 1907139	15.6	81
63	Fine-Tuning Semiconducting Polymer Self-Aggregation and Crystallinity Enables Optimal Morphology and High-Performance Printed All-Polymer Solar Cells. <i>Journal of the American Chemical Society</i> , 2020 , 142, 392-406	16.4	98
62	Inducing Molecular Aggregation of Polymer Semiconductors in a Secondary Insulating Polymer Matrix to Enhance Charge Transport. <i>Chemistry of Materials</i> , 2020 , 32, 897-905	9.6	25
61	A Carbon Flower Based Flexible Pressure Sensor Made from Large-Area Coating. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000875	4.6	12
60	Multivalent Assembly of Flexible Polymer Chains into Supramolecular Nanofibers. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16814-16824	16.4	14
59	Intrinsically Stretchable Temperature Sensor Based on Organic Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1630-1633	4.4	20
58	Tailoring Carbosilane Side Chains toward Intrinsically Stretchable Semiconducting Polymers. <i>Macromolecules</i> , 2019 , 52, 4396-4404	5.5	41

57	Characterization of Hydrogen Bonding Formation and Breaking in Semiconducting Polymers under Mechanical Strain. <i>Macromolecules</i> , 2019 , 52, 2476-2486	5.5	29
56	Multi-scale ordering in highly stretchable polymer semiconducting films. <i>Nature Materials</i> , 2019 , 18, 594-601	14.3	146
55	High-Transconductance Stretchable Transistors Achieved by Controlled Gold Microcrack Morphology. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900347	6.4	33
54	Conjugated Carbon Cyclic Nanorings as Additives for Intrinsically Stretchable Semiconducting Polymers. <i>Advanced Materials</i> , 2019 , 31, e1903912	24	57
53	Stretchable self-healable semiconducting polymer film for active-matrix strain-sensing array. <i>Science Advances</i> , 2019 , 5, eaav3097	14.3	102
52	Effect of Extensional Flow on the Evaporative Assembly of a Donor-Acceptor Semiconducting Polymer. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 2445-2454	4	1
51	Stretchable and Fully Degradable Semiconductors for Transient Electronics. <i>ACS Central Science</i> , 2019 , 5, 1884-1891	16.8	41
50	An Intrinsically Stretchable High-Performance Polymer Semiconductor with Low Crystallinity. <i>Advanced Functional Materials</i> , 2019 , 29, 1905340	15.6	63
49	Tuning the Cross-Linker Crystallinity of a Stretchable Polymer Semiconductor. <i>Chemistry of Materials</i> , 2019 , 31, 6465-6475	9.6	38
48	Deformable Organic Nanowire Field-Effect Transistors. <i>Advanced Materials</i> , 2018 , 30, 1704401	24	64
47	Quadruple H-Bonding Cross-Linked Supramolecular Polymeric Materials as Substrates for Stretchable, Antitearing, and Self-Healable Thin Film Electrodes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 5280-5289	16.4	312
46	Efficient and UV-stable perovskite solar cells enabled by side chain-engineered polymeric hole-transporting layers. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12999-13004	13	36
45	Control over Molecular Architectures of Carbohydrate-Based Block Copolymers for Stretchable Electrical Memory Devices. <i>Macromolecules</i> , 2018 , 51, 4966-4975	5.5	23
44	Synthesis and Properties of Soluble Fused Thiophene Diketopyrrolopyrrole-Based Polymers with Tunable Molecular Weight. <i>Macromolecules</i> , 2018 , 51, 9422-9429	5.5	14
43	Effect of Nonconjugated Spacers on Mechanical Properties of Semiconducting Polymers for Stretchable Transistors. <i>Advanced Functional Materials</i> , 2018 , 28, 1804222	15.6	75
42	Enhancing Molecular Alignment and Charge Transport of Solution-Sheared Semiconducting Polymer Films by the Electrical-Blade Effect. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800110	6.4	21
41	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	7.1	15
40	Enhanced Charge Transport and Stability Conferred by Iron(III)-Coordination in a Conjugated Polymer Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800239	6.4	9

39	Nonhalogenated Solvent Processable and Printable High-Performance Polymer Semiconductor Enabled by Isomeric Nonconjugated Flexible Linkers. <i>Macromolecules</i> , 2018 , 51, 4976-4985	5.5	49
38	n-Type Doped Conjugated Polymer for Nonvolatile Memory. <i>Advanced Materials</i> , 2017 , 29, 1605166	24	47
37	Highly Reliable and Sensitive Tactile Transistor Memory. <i>Advanced Electronic Materials</i> , 2017 , 3, 16005486.4	15	
36	Stretchable Conjugated Rod-Coil Poly(3-hexylthiophene)-block-poly(butyl acrylate) Thin Films for Field Effect Transistor Applications. <i>Macromolecules</i> , 2017 , 50, 1442-1452	5.5	63
35	Conception of Stretchable Resistive Memory Devices Based on Nanostructure-Controlled Carbohydrate-block-Polyisoprene Block Copolymers. <i>Advanced Functional Materials</i> , 2017 , 27, 1606161	15.6	55
34	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
33	Soft Poly(butyl acrylate) Side Chains toward Intrinsically Stretchable Polymeric Semiconductors for Field-Effect Transistor Applications. <i>Macromolecules</i> , 2017 , 50, 4982-4992	5.5	69
32	High-performance stretchable resistive memories using donor-acceptor block copolymers with fluorene rods and pendent isoindigo coils. <i>NPG Asia Materials</i> , 2016 , 8, e298-e298	10.3	36
31	Crosslinkable high dielectric constant polymer dielectrics for low voltage organic field-effect transistor memory devices. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 3224-3236	2.5	9
30	Isoindigo-Based Semiconducting Polymers Using Carbosilane Side Chains for High Performance Stretchable Field-Effect Transistors. <i>Macromolecules</i> , 2016 , 49, 8540-8548	5.5	64
29	Transparent deoxyribonucleic acid substrate with high mechanical strength for flexible and biocompatible organic resistive memory devices. <i>Chemical Communications</i> , 2016 , 52, 13463-13466	5.8	20
28	Synthesis and FET characterization of novel ambipolar and low-bandgap naphthalene-diimide-based semiconducting polymers. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 359-367	2.5	8
27	Biaxially extended thiophene-isoindigo donor-acceptor conjugated polymers for high-performance flexible field-effect transistors. <i>Polymer Chemistry</i> , 2016 , 7, 4378-4392	4.9	10
26	Conjugated fluorene-moiety-containing pendant polymers for the dispersion of single-wall carbon nanotubes: polymer wrapping abilities and electrical properties. <i>Polymer Journal</i> , 2016 , 48, 421-429	2.7	4
25	Donor-Acceptor Poly(3-hexylthiophene)-block-Pendent Poly(isoindigo) with Dual Roles of Charge Transporting and Storage Layer for High-Performance Transistor-Type Memory Applications. <i>Advanced Functional Materials</i> , 2016 , 26, 2695-2705	15.6	45
24	High Performance Nonvolatile Transistor Memories Utilizing Functional Polyimide-Based Supramolecular Electrets. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1631-40	4.5	10
23	Phthalocyanine-Cored Star-Shaped Polystyrene for Nano Floating Gate in Nonvolatile Organic Transistor Memory Device. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500300	6.4	36
22	Electrospun Poly(3-hexylthiophene) Nanofibers with Highly Extended and Oriented Chains Through Secondary Electric Field for High-Performance Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2015 , 1, 1400028	6.4	24

21	Synthesis of monodispersed polystyrene-silver core-shell particles and their application in the fabrication of stretchable large-scale anisotropic conductive films. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 3318-3328	7.1	19
20	Well-defined star-shaped donor-acceptor conjugated molecules for organic resistive memory devices. <i>Chemical Communications</i> , 2015 , 51, 14179-82	5.8	23
19	New poly(selenophene-thiophene) bearing π -conjugating spacers for polymer field-effect transistors and photovoltaic cells. <i>Polymer Chemistry</i> , 2015 , 6, 3660-3670	4.9	5
18	Biaxially Extended Conjugated Polymers with Thieno[3,2-b]thiophene Building Block for High Performance Field-Effect Transistor Applications. <i>Macromolecules</i> , 2015 , 48, 5596-5604	5.5	11
17	A silole copolymer containing a ladder-type heptacyclic arene and naphthobisoxadiazole moieties for highly efficient polymer solar cells. <i>Energy and Environmental Science</i> , 2015 , 8, 552-557	35.4	60
16	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
15	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
14	Plasmon-Enhanced Polymer Photovoltaic Device Performance Using Different Patterned Ag/PVP Electrospun Nanofibers. <i>Advanced Energy Materials</i> , 2014 , 4, 1301665	21.8	40
13	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
12	Ambipolar field-effect transistors using conjugated polymers with structures of bilayer, binary blends, and paralleled nanofibers. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 7489-7493	7.1	8
11	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
10	Effects of the acceptor conjugation length and composition on the electrical memory characteristics of random copolyimides. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 1348-1358	2.5	15
9	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
8	Morphology and Field-Effect Transistor Characteristics of Electrospun Nanofibers Prepared From Crystalline Poly(3-hexylthiophene) and Polyacrylate Blends. <i>Macromolecular Chemistry and Physics</i> , 2013 , 214, 751-760	2.6	23
7	Donor-acceptor conjugated polymers of arylene vinylene with pendent phenanthro[9,10-d]imidazole for high-performance flexible resistor-type memory applications. <i>Polymer Chemistry</i> , 2013 , 4, 5261	4.9	36
6	Synthesis of Thiophene-Based π -Conjugated Polymers Containing Oxadiazole or Thiadiazole Moieties and Their Application to Organic Photovoltaics. <i>Macromolecules</i> , 2012 , 45, 9046-9055	5.5	33
5	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
4	Biaxially extended quaterthiophene-thiophene and -selenophene conjugated polymers for optoelectronic device applications. <i>Polymer Chemistry</i> , 2012 , 3, 767	4.9	32

3	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
2	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
1	Topological supramolecular network enabled highly conductive and stretchable organic bioelectronics		1