

Yu-Cheng Chiu

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9485265/yu-cheng-chiu-publications-by-citations.pdf>

Version: 2024-04-28

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.

99
papers

3,822
citations

31
h-index

59
g-index

103
ext. papers

4,495
ext. citations

9.2
avg, IF

5.44
L-index

#	Paper	IF	Citations
99	Intrinsically stretchable and healable semiconducting polymer for organic transistors. <i>Nature</i> , 2016 , 539, 411-415	50.4	779
98	Stretchable Self-Healing Polymeric Dielectrics Cross-Linked Through Metal-Ligand Coordination. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6020-7	16.4	341
97	Efficient Blue Electroluminescence Using Quantum-Confined Two-Dimensional Perovskites. <i>ACS Nano</i> , 2016 , 10, 9720-9729	16.7	239
96	Ultrapure Green Light-Emitting Diodes Using Two-Dimensional Formamidinium Perovskites: Achieving Recommendation 2020 Color Coordinates. <i>Nano Letters</i> , 2017 , 17, 5277-5284	11.5	166
95	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
94	Nonvolatile Perovskite-Based Photomemory with a Multilevel Memory Behavior. <i>Advanced Materials</i> , 2017 , 29, 1702217	24	87
93	High-Performance Nonvolatile Transistor Memories of Pentacene Using the Green Electrets of Sugar-based Block Copolymers and Their Supramolecules. <i>Advanced Functional Materials</i> , 2014 , 24, 4240-4249	15.6	76
92	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
91	High-performance nonvolatile organic transistor memory devices using the electrets of semiconducting blends. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 12780-8	9.5	64
90	Synthesis, morphology, and sensory applications of multifunctional rod-coil-coil triblock copolymers and their electrospun nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 3387-95	9.5	61
89	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
88	Amide-Containing Alkyl Chains in Conjugated Polymers: Effect on Self-Assembly and Electronic Properties. <i>Macromolecules</i> , 2018 , 51, 1336-1344	5.5	60
87	High Performance Transparent Transistor Memory Devices Using Nano-Floating Gate of Polymer/ZnO Nanocomposites. <i>Scientific Reports</i> , 2016 , 6, 20129	4.9	60
86	Taming Charge Transport in Semiconducting Polymers with Branched Alkyl Side Chains. <i>Advanced Functional Materials</i> , 2017 , 27, 1701973	15.6	59
85	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
84	Non-Conjugated Flexible Linkers in Semiconducting Polymers: A Pathway to Improved Processability without Compromising Device Performance. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600104	6.4	54
83	The Critical Role of Electron-Donating Thiophene Groups on the Mechanical and Thermal Properties of Donor-Acceptor Semiconducting Polymers. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800899	6.4	52

82	Aggregation-induced emission in lamellar solids of colloidal perovskite quantum wells. <i>Science Advances</i> , 2017 , 3, eaaq0208	14.3	51
81	Partially-Screened Field Effect and Selective Carrier Injection at Organic Semiconductor/Graphene Heterointerface. <i>Nano Letters</i> , 2015 , 15, 7587-95	11.5	49
80	Oligosaccharide Carbohydrate Dielectrics toward High-Performance Non-volatile Transistor Memory Devices. <i>Advanced Materials</i> , 2015 , 27, 6257-64	24	49
79	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
78	High-k polymer-graphene oxide dielectrics for low-voltage flexible nonvolatile transistor memory devices. <i>Chemical Communications</i> , 2014 , 50, 3217-9	5.8	41
77	Plasmon-Enhanced Polymer Photovoltaic Device Performance Using Different Patterned Ag/PVP Electrospun Nanofibers. <i>Advanced Energy Materials</i> , 2014 , 4, 1301665	21.8	40
76	High performance nonvolatile transistor memories of pentacene using the electrets of star-branched p-type polymers and their donor-acceptor blends. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 1436	7.1	38
75	Influence of amide-containing side chains on the mechanical properties of diketopyrrolopyrrole-based polymers. <i>Polymer Chemistry</i> , 2018 , 9, 5531-5542	4.9	38
74	Tacky Elastomers to Enable Tear-Resistant and Autonomous Self-Healing Semiconductor Composites. <i>Advanced Functional Materials</i> , 2020 , 30, 2000663	15.6	36
73	Thermoresponsive luminescent electrospun fibers prepared from poly(DMAEMA-co-SA-co-StFl) multifunctional random copolymers. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 3340-7	9.5	36
72	Highly ordered luminescent microporous films prepared from crystalline conjugated rod-coil diblock copolymers of PF-b-PSA and their superhydrophobic characteristics. <i>Soft Matter</i> , 2011 , 7, 9350	3.6	35
71	High-Performance Nonvolatile Organic Photonic Transistor Memory Devices using Conjugated Rod-Coil Materials as a Floating Gate. <i>Advanced Materials</i> , 2020 , 32, e2002638	24	34
70	Novel Photoinduced Recovery of OFET Memories Based on Ambipolar Polymer Electret for Photorecorder Application. <i>Advanced Functional Materials</i> , 2019 , 29, 1902991	15.6	32
69	Ultra metal ions and pH sensing characteristics of thermoresponsive luminescent electrospun nanofibers prepared from poly(HPBO-co-NIPAAm-co-SA). <i>RSC Advances</i> , 2014 , 4, 45345-45353	3.7	31
68	Synthesis of New Star-Shaped Polymers with Styrene-Fluorene Conjugated Moieties and Their Multicolor Luminescent Ordered Microporous Films. <i>Macromolecules</i> , 2010 , 43, 7151-7158	5.5	30
67	Electrospun Fibers as a Solid-State Real-Time Zinc Ion Sensor with High Sensitivity and Cell Medium Compatibility. <i>Advanced Functional Materials</i> , 2013 , 23, 1566-1574	15.6	29
66	Impact of Polystyrene Oligomer Side Chains on Naphthalene Diimide-Bithiophene Polymers as n-Type Semiconductors for Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2016 , 26, 1261-1270	15.6	29
65	Donor-Acceptor Effect of Carbazole-Based Conjugated Polymer Electrets on Photoresponsive Flash Organic Field-Effect Transistor Memories. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 6144-6150	9.5	28

64	Multilevel nonvolatile flexible organic field-effect transistor memories employing polyimide electrets with different charge-transfer effects. <i>Macromolecular Rapid Communications</i> , 2014 , 35, 1039-45	4.8	28
63	Renewable polymeric materials for electronic applications. <i>Polymer Journal</i> , 2017 , 49, 61-73	2.7	28
62	Multifunctional Electrospun Nanofibers Prepared from Poly((N-isopropylacrylamide)-co-(N-hydroxymethylacrylamide)) and Their Blends with 1,2-Diaminoanthraquinone for NO Gas Detection. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 286-294	2.6	28
61	New Thermoresponsive Luminescent Electrospun Nanofibers Prepared from Poly[2,7-(9,9-dihexylfluorene)]-block-poly(N-isopropylacrylamide)/PMMA Blends. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 1408-1416	2.6	27
60	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	13	26
59	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
58	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
57	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
56	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
55	Control over Molecular Architectures of Carbohydrate-Based Block Copolymers for Stretchable Electrical Memory Devices. <i>Macromolecules</i> , 2018 , 51, 4966-4975	5.5	23
54	Morphology and Electronic Properties of Semiconducting Polymer and Branched Polyethylene Blends. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 12723-12732	9.5	20
53	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	7.1	20
52	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
51	Scalable photonic sources using two-dimensional lead halide perovskite superlattices. <i>Nature Communications</i> , 2020 , 11, 387	17.4	19
50	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
49	Unraveling the stress effects on the optical properties of stretchable rod-coil polyfluorene-poly(n-butyl acrylate) block copolymer thin films. <i>Polymer Chemistry</i> , 2018 , 9, 3820-3831	4.9	19
48	Using a single electrospun polymer nanofiber to enhance carrier mobility in organic field-effect transistors toward nonvolatile memory. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5506-15	9.5	17
47	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

46	Synthesis of multifunctional poly(1-pyrenemethyl methacrylate)-b-poly(N-isopropylacrylamide)-b-poly(N-methylolacrylamide)s and their electrospun nanofibers for metal ion sensory applications. <i>Polymer Chemistry</i> , 2015 , 6, 2327-2336	4.9	16
45	Organic-Inorganic Nanocomposite Film for High-Performance Stretchable Resistive Memory Device. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e1900542	4.8	16
44	Novel highly sensitive and reversible electrospun nanofibrous chemosensor-filters composed of poly(HEMA-co-MNA) and bpy-F-bpy with metal-ion-modulated multicolor fluorescence emission. <i>Polymer Journal</i> , 2016 , 48, 439-449	2.7	15
43	Tunable dielectric constant of polyimide-Barium titanate nanocomposite materials as the gate dielectrics for organic thin film transistor applications. <i>RSC Advances</i> , 2014 , 4, 62132-62139	3.7	15
42	Semi-conjugated acceptor-based polyimides as electrets for nonvolatile transistor memory devices. <i>Polymer Chemistry</i> , 2014 , 5, 6834-6846	4.9	14
41	Molecular Origin of Strain-Induced Chain Alignment in PDPP-Based Semiconducting Polymeric Thin Films. <i>Advanced Functional Materials</i> , 2021 , 31, 2100161	15.6	14
40	Intrinsically stretchable polymer semiconductors: molecular design, processing and device applications. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2660-2684	7.1	13
39	Synthesis, morphology, and electrical memory application of oligosaccharide-based block copolymers with π -conjugated pyrene moieties and their supramolecules. <i>Polymer Chemistry</i> , 2016 , 7, 1249-1263	4.9	12
38	Controllable electrical performance of spray-coated semiconducting small molecule/insulating polymer blend thin film for organic field effect transistors application. <i>Reactive and Functional Polymers</i> , 2016 , 108, 130-136	4.6	12
37	Morphology and optoelectronic characteristics of organic field-effect transistors based on blends of polylactic acid and poly(3-hexylthiophene). <i>Polymer Journal</i> , 2018 , 50, 975-987	2.7	11
36	Elucidating the impact of molecular weight on morphology, charge transport, photophysics and performance of all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 21070-21083	13	11
35	Conception of a Smart Artificial Retina Based on a Dual-Mode Organic Sensing Inverter. <i>Advanced Science</i> , 2021 , 8, e2100742	13.6	11
34	Indacenodithiophene-based N-type conjugated polymers provide highly thermally stable ternary organic photovoltaics displaying a performance of 17.5%. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9780-9790	13	11
33	Synthetic Concept of Intrinsically Elastic Luminescent Polyfluorene-Based Copolymers via RAFT Polymerization. <i>Macromolecules</i> , 2020 , 53, 4030-4037	5.5	10
32	Capabilities of time-resolved X-ray excited optical luminescence of the Taiwan Photon Source 23A X-ray nanoprobe beamline. <i>Journal of Synchrotron Radiation</i> , 2020 , 27, 217-221	2.4	10
31	Self-assembled oligosaccharide-based block copolymers as charge-storage materials for memory devices. <i>Polymer Journal</i> , 2018 , 50, 649-658	2.7	10
30	Iron-coordinating π -conjugated semiconducting polymer: morphology and charge transport in organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8213-8223	7.1	9
29	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

28	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
27	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
26	Novel Authentic and Ultrafast Organic Photorecorders Enhanced by AIE-Active Polymer Electrets via Interlayer Charge Recombination. <i>Advanced Functional Materials</i> , 2021 , 31, 2101288	15.6	8
25	Novel stretchable light-emitting diodes based on conjugated-rod block elastic-coil copolymers. <i>Polymer International</i> , 2021 , 70, 426-431	3.3	7
24	Luminescence Behavior and Acceptor Effects of Ambipolar Polymeric Electret on Photorecoverable Organic Field-Effect Transistor Memory. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001076	6.4	7
23	Unveiling the Photoinduced Recovery Mystery in Conjugated Polymer-Based Transistor Memory. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 44656-44662	9.5	7
22	Design of Self-Cross-Linkable Poly(n-butyl acrylate)-co-poly[N-(hydroxymethyl)acrylamide] Amphiphilic Copolymers toward Elastic and Self-Healing Properties. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 5432-5443	4.3	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	Design and synthesis of new cationic water-soluble pyrene containing dendrons for DNA sensory applications. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 297-305	2.5	6
19	Poly[2,7-(9,9-dihexylfluorene)]-block-Poly(2-vinylpyridine) Rod-Coil Star-block Copolymers: Synthesis, Micellar Structures, and Photophysical Properties. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 297-304	2.6	6
18	Anisotropic nanocrystal superlattices overcoming intrinsic light outcoupling efficiency limit in perovskite quantum dot light-emitting diodes.. <i>Nature Communications</i> , 2022 , 13, 2106	17.4	6
17	An Elastic Interfacial Transistor Enabled by Superhydrophobicity. <i>Small</i> , 2018 , 14, e1804006	11	5
16	Precise Control of Noncovalent Interactions in Semiconducting Polymers for High-Performance Organic Field-Effect Transistors. <i>Chemistry of Materials</i> ,	9.6	5
15	Conjugated Polymer-Wrapped Single-Wall Carbon Nanotubes for High-Mobility Photonic/Electrical Fully Modulated Synaptic Transistor. <i>Advanced Materials Technologies</i> , 2101506	6.8	3
14	Influence of Different Molecular Weights and Concentrations of Poly(glycidyl methacrylate) on Recycled Poly(ethylene terephthalate): A Thermal, Mechanical, and Rheological Study. <i>Journal of Polymers and the Environment</i> , 2020 , 28, 2880-2892	4.5	3
13	Exploitation of Thermoresponsive Switching Organic Field-Effect Transistors. <i>ACS Omega</i> , 2019 , 4, 22082-22088	3.3	3
12	pH-responsive Dendritic Gelators. <i>Chemistry Letters</i> , 2012 , 41, 92-94	1.7	2
11	Developing the XEOL and TR-XEOL at the X-ray Nanoprobe at Taiwan Photon Source. <i>Microscopy and Microanalysis</i> , 2018 , 24, 200-201	0.5	2

10	The Impacts of Polyisoprene Physical Interactions on Sorting of Single-Wall Carbon Nanotubes. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2100327	4.8	2
9	Why triage materials with low luminescence quantum efficiency: the use of 35Cbz4BzCN as a universal host for organic light emitting diodes through effective triplet energy transfer. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2381-2391	7.1	2
8	Stabilization of Lead-Reduced Metal Halide Perovskite Nanocrystals by High-Entropy Alloying.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	2
7	Tunneling-Effect-Boosted Interfacial Charge Trapping toward Photo-Organic Transistor Memory. <i>Advanced Electronic Materials</i> , 2101349	6.4	2
6	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
5	Memory: High-Performance Nonvolatile Transistor Memories of Pentacene Using the Green Electrets of Sugar-based Block Copolymers and Their Supramolecules (Adv. Funct. Mater. 27/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 4198-4198	15.6	1
4	Improving the Lifetime of CsPbBr Perovskite in Water Using Self-Healing and Transparent Elastic Polymer Matrix. <i>Frontiers in Chemistry</i> , 2020 , 8, 766	5	1
3	Synergistic Effect in a Graphene Quantum Dot-Enabled Luminescent Skinlike Copolymer for Long-Term pH Detection.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 60413-60424	9.5	0
2	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		
1	Interfacial Field-Effect Transistors: An Elastic Interfacial Transistor Enabled by Superhydrophobicity (Small 51/2018). <i>Small</i> , 2018 , 14, 1870247	11	