

Shih-Huang Tung

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Solution Processable Pentafluorophenyl End-Capped Dithienothiophene Organic Semiconductors for Hole-Transporting Organic Field Effect Transistors. <i>Advanced Electronic Materials</i> , 2022, 8, 2100648.	2.6	7
2	Heteroalkyl-Substitution in Molecular Organic Semiconductors: Chalcogen Effect on Crystallography, Conformational Lock, and Charge Transport. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	22
3	Tunable Photoelectric Properties of n-Type Semiconducting Polymer:Small Molecule Blends for Red Light Sensing Phototransistors. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	5
4	Sustainable Alternatives to Nondegradable Medical Plastics. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4792-4806.	3.2	15
5	Amphiphilic Thermoresponsive Poly(Hydroxyaminoethers) as Effective Emulsifiers for Preparation of Waterborne Epoxy Resins. <i>Macromolecular Materials and Engineering</i> , 2022, 307, .	1.7	3
6	A Solution Processable Dithioalkyl Dithienothiophene (DSDTT) Based Small Molecule and Its Blends for High Performance Organic Field Effect Transistors. <i>ACS Nano</i> , 2021, 15, 727-738.	7.3	21
7	Additive-induced ordered structures formed by PC71BM fullerene derivatives. <i>Soft Matter</i> , 2021, 17, 810-814.	1.2	0
8	Solution-Processable Multifused Thiophene Small Molecules and Conjugated Polymer Semiconducting Blend for Organic Field Effect Transistor Application. <i>Advanced Materials Technologies</i> , 2021, 6, 2001028.	3.0	14
9	Poly(ether sulfone)-Based Anion Exchange Membranes Containing Dense Quaternary Ammonium Cations and Their Application for Fuel Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 2201-2217.	2.5	14
10	Methyl-Branched Side Chains on Polythiophene Suppress Chain Mobility and Crystallization to Enhance Photovoltaic Performance. <i>Macromolecules</i> , 2021, 54, 3689-3699.	2.2	3
11	On the length of lecithin reverse wormlike micelles induced by inorganic salts: Binding site matters. <i>Journal of Molecular Liquids</i> , 2021, 329, 115543.	2.3	4
12	Controlled Synthesis of Poly[(3-alkylthio)thiophene]s and Their Application to Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 31898-31909.	4.0	21
13	Strengthening the Intrachain Interconnection of Polymers by the Naphthalene Diimide-Pyrene Complementary Interactions. <i>Macromolecules</i> , 2021, 54, 7282-7290.	2.2	4
14	Facile one-pot synthesis of rod-coil bio-block copolymers and uncovering their role in forming the efficient stretchable touch-responsive light emitting diodes. <i>Chemical Engineering Journal</i> , 2021, 418, 129421.	6.6	17
15	On the Formation Mechanism of Nonsolvent-Induced Porous Polylactide Electrospun Fibers. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5096-5104.	2.0	10
16	Thienoisindigo (TII)-Based Quinoidal Small Molecules for High-Performance n-Type Organic Field Effect Transistors. <i>Advanced Science</i> , 2021, 8, 2002930.	5.6	28
17	Photoelectric effect of hybrid ultraviolet-sensitized phototransistors from an n-type organic semiconductor and an all-inorganic perovskite quantum dot photosensitizer. <i>Nanoscale</i> , 2021, 13, 20498-20507.	2.8	5
18	Light Down-Converter Based on Luminescent Nanofibers from the Blending of Conjugated Rod-Coil Block Copolymers and Perovskite through Electrospinning. <i>Polymers</i> , 2020, 12, 84.	2.0	10

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19	Quinoidal thioalkyl-substituted bithiophene small molecule semiconductors for n-type organic field effect transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15450-15458.	2.7	12
20	Size-dependent phase separation and thermomechanical properties of thermoplastic polyurethanes. <i>Polymer</i> , 2020, 210, 123075.	1.8	14
21	Facile synthesis toward self-dispersible waterborne comb-like Poly(hydroxyaminoethers). <i>Polymer</i> , 2020, 196, 122464.	1.8	5
22	Accounting for π - π stacking interactions in the mesoscopic models of conjugated polymers. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1137-1146.	1.7	21
23	Environmentally Friendly Resistive Switching Memory Devices with DNA as the Active Layer and Bio-Based Polyethylene Furanoate as the Substrate. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 5100-5106.	3.2	34
24	Correlations between temperature-dependent rheology and electrostatic interactions in reverse wormlike micelles induced by inorganic salts. <i>Soft Matter</i> , 2020, 16, 3505-3513.	1.2	11
25	Facile Fabrication of Stretchable Touch-Responsive Perovskite Light-Emitting Diodes Using Robust Stretchable Composite Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 14408-14415.	4.0	46
26	Solution Processable Pseudo <i>n</i> -Thienoacenes via Intramolecular S \cdot S Lock for High Performance Organic Field Effect Transistors. <i>Chemistry of Materials</i> , 2020, 32, 1422-1429.	3.2	38
27	Solution-Processable Quinoidal Dithioalkylterthiophene-Based Small Molecules Pseudo-Pentathienoacenes <i>via</i> an Intramolecular S \cdot S Lock for High-Performance n-Type Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25081-25091.	4.0	26
28	A facile strategy to achieve fully bio-based epoxy thermosets from eugenol. <i>Green Chemistry</i> , 2019, 21, 4475-4488.	4.6	95
29	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
30	Facile 3D Boron Nitride Integrated Electrospun Nanofibrous Membranes for Purging Organic Pollutants. <i>Nanomaterials</i> , 2019, 9, 1383.	1.9	16
31	Tunable Phospholipid Nanopatterns Mediated by Cholesterol with Sub-3 nm Domain Size. <i>Langmuir</i> , 2019, 35, 3383-3390.	1.6	0
32	Facile Preparation of Cu/Ag Core/Shell Electrospun Nanofibers as Highly Stable and Flexible Transparent Conductive Electrodes for Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 10118-10127.	4.0	50
33	Novel ultra-stable and highly luminescent white light-emitting diodes from perovskite quantum dots <i>in</i> Polymer nanofibers through biaxial electrospinning. <i>APL Materials</i> , 2019, 7, .	2.2	42
34	Oligo(ethylene glycol) side chain effect on the physical properties and molecular arrangement of oligothiophene <i>iso</i> indigo based conjugated polymers. <i>Soft Matter</i> , 2019, 15, 9468-9473.	1.2	3
35	Facile approach for rapid self-assembly of rod-coil block copolymers. <i>Polymer</i> , 2018, 139, 20-25.	1.8	5
36	Uniform Luminous Perovskite Nanofibers with Color Δ Tunability and Improved Stability Prepared by One <i>Step</i> Core/Shell Electrospinning. <i>Small</i> , 2018, 14, e1704379.	5.2	93

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37	Honeycomb Surface with Shape Memory Behavior Fabricated via Breath Figure Process. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700433.	1.7	13
38	Blends of polythiophene nanowire/fluorine rubber with multiscale phase separation suitable for stretchable semiconductors. <i>Polymer</i> , 2018, 155, 146-151.	1.8	30
39	Side Chain Effects on the Optoelectronic Properties and Self-Assembly Behaviors of Terthiophene- <i>Thieno</i> [3,4- <i>c</i>]pyrrole-4,6-dione Based Conjugated Polymers. <i>Macromolecules</i> , 2018, 51, 7828-7835.	2.2	14
40	Solution-Processed High-Performance Tetrathienothiophene-Based Small Molecular Blends for Ambipolar Charge Transport. <i>Advanced Functional Materials</i> , 2018, 28, 1801025.	7.8	28
41	Electrospun Nanofibers: Uniform Luminous Perovskite Nanofibers with Color-Tunability and Improved Stability Prepared by One-Step Core/Shell Electrospinning (Small 22/2018). <i>Small</i> , 2018, 14, 1870103.	5.2	2
42	Polymersomes with high loading capacity prepared by direct self-assembly of block copolymers in drugs. <i>Polymer</i> , 2018, 134, 117-124.	1.8	9
43	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
44	Control over Molecular Architectures of Carbohydrate-Based Block Copolymers for Stretchable Electrical Memory Devices. <i>Macromolecules</i> , 2018, 51, 4966-4975.	2.2	32
45	Conception of Stretchable Resistive Memory Devices Based on Nanostructure-Controlled Carbohydrate-block-Polyisoprene Block Copolymers. <i>Advanced Functional Materials</i> , 2017, 27, 1606161.	7.8	76
46	One-Step Electrospinning To Produce Nonsolvent-Induced Macroporous Fibers with Ultrahigh Oil Adsorption Capability. <i>Macromolecules</i> , 2017, 50, 2528-2534.	2.2	102
47	High performance solution-processable tetrathienoacene (TTAR) based small molecules for organic field effect transistors (OFETs). <i>Chemical Communications</i> , 2017, 53, 5898-5901.	2.2	28
48	Solution-Processable Dithienothiophenoquinoid (DTTQ) Structures for Ambient-Stable n-Channel Organic Field Effect Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1606761.	7.8	62
49	Self-Assembly of Lecithin and Bile Salt in the Presence of Inorganic Salt in Water: Mesoscale Computer Simulation. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7878-7888.	1.2	18
50	Iterative synthesis of monodisperse pendants for making comb-like polyurethanes. <i>Polymer</i> , 2017, 119, 1-12.	1.8	15
51	A stable, efficient textile-based flexible perovskite solar cell with improved washable and deployable capabilities for wearable device applications. <i>RSC Advances</i> , 2017, 7, 54361-54368.	1.7	51
52	Insight into the mechanism and outcoupling enhancement of excimer-associated white light generation. <i>Chemical Science</i> , 2016, 7, 3556-3563.	3.7	108
53	Self-assembly of micelles in organic solutions of lecithin and bile salt: Mesoscale computer simulation. <i>Chemical Physics Letters</i> , 2016, 664, 16-22.	1.2	8
54	Tailored honeycomb-like polymeric films based on amphiphilic poly(urea/malonamide) dendrons. <i>RSC Advances</i> , 2016, 6, 91981-91990.	1.7	13

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55	Organic Semiconductors: Surface Energy-Mediated Self-Patterning for High Performance Spray-Deposited Organic Field Effect Transistors (Adv. Mater. Interfaces 11/2016). Advanced Materials Interfaces, 2016, 3, .	1.9	0
56	Crosslinkable high dielectric constant polymer dielectrics for low voltage organic field-effect transistor memory devices. Journal of Polymer Science Part A, 2016, 54, 3224-3236.	2.5	9
57	Effects of Alkali Cations and Halide Anions on the Self-Assembly of Phosphatidylcholine in Oils. Langmuir, 2016, 32, 12166-12174.	1.6	19
58	Surface Energy-Mediated Self-Patterning for High Performance Spray-Deposited Organic Field Effect Transistors. Advanced Materials Interfaces, 2016, 3, 1500714.	1.9	8
59	Organically modified clays as rheology modifiers and dispersing agents for epoxy packing of white LED. Composites Science and Technology, 2016, 132, 9-15.	3.8	18
60	Dendrons with urea/malonamide linkages for gate insulators of n-channel organic thin film transistors. Reactive and Functional Polymers, 2016, 108, 86-93.	2.0	9
61	Effects of amorphous poly(3-hexylthiophene) on active-layer structure and solar cells performance. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 975-985.	2.4	6
62	Biological Hydrogels Formed by Swollen Multilamellar Liposomes. Langmuir, 2015, 31, 13312-13320.	1.6	9
63	Phase Behavior and Structure of Supramolecules Formed by Poly(4-vinylpyridine) and Fanlike Benzoic Acid Derivative with Long Hydrophobic Tails. Macromolecules, 2015, 48, 717-724.	2.2	16
64	Electrospun Poly(3-hexylthiophene) Nanofibers with Highly Extended and Oriented Chains Through Secondary Electric Field for High-Performance Field-Effect Transistors. Advanced Electronic Materials, 2015, 1, 1400028.	2.6	32
65	Nonvolatile Organic Field-Effect Transistors Memory Devices Using Supramolecular Block Copolymer/Functional Small Molecule Nanocomposite Electret. ACS Applied Materials & Interfaces, 2015, 7, 5663-5673.	4.0	47
66	A silole copolymer containing a ladder-type heptacyclic arene and naphthobisoxadiazole moieties for highly efficient polymer solar cells. Energy and Environmental Science, 2015, 8, 552-557.	15.6	61
67	Molecular stacking structure and field-effect transistor characteristics of crystalline poly(3-hexylthiophene)-block-syndiotactic polypropylene through solvent selectivity. RSC Advances, 2014, 4, 23002-23009.	1.7	7
68	Mixtures of Lecithin and Bile Salt Can Form Highly Viscous Wormlike Micellar Solutions in Water. Langmuir, 2014, 30, 10221-10230.	1.6	47
69	Using a Single Electrospun Polymer Nanofiber to Enhance Carrier Mobility in Organic Field-Effect Transistors toward Nonvolatile Memory. ACS Applied Materials & Interfaces, 2014, 6, 5506-5515.	4.0	19
70	Spontaneous origination of chirality in melts of diblock copolymers with rigid and flexible blocks. Polymer Science - Series C, 2013, 55, 74-85.	0.8	7
71	Molecular Interactions between Lecithin and Bile Salts/Acids in Oils and Their Effects on Reverse Micellization. Langmuir, 2013, 29, 3879-3888.	1.6	29
72	Fluorinated thienyl-quinoxaline-based D-A-type copolymer toward efficient polymer solar cells: synthesis, characterization, and photovoltaic properties. Polymer Chemistry, 2013, 4, 3411.	1.9	46

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73	Self-assembled clay films with a platelet-void multilayered nanostructure and flame-blocking properties. <i>Scientific Reports</i> , 2013, 3, 2621.	1.6	16
74	Tunable electrical memory characteristics by the morphology of self-assembled block copolymers:PCBM nanocomposite films. <i>Soft Matter</i> , 2012, 8, 526-535.	1.2	60
75	Effects of Annealing Solvents on the Morphology of Block Copolymer-Based Supramolecular Thin Films. <i>Macromolecules</i> , 2012, 45, 1562-1569.	2.2	83
76	Synthesis, Morphology, and Sensory Applications of Multifunctional Rod-Coil Triblock Copolymers and Their Electrospun Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 3387-3395.	4.0	63
77	Microdomain control in block copolymer-based supramolecular thin films through varying the grafting density of additives. <i>Soft Matter</i> , 2011, 7, 5660.	1.2	16
78	Self-assembled structures in rod-coil block copolymers with hydrogen-bonded amphiphiles. <i>Soft Matter</i> , 2011, 7, 4198.	1.2	23
79	Self-assembly of polystyrene-b-poly(4-vinylpyridine) in deoxycholic acid melt. <i>Polymer</i> , 2011, 52, 3994-4000.	1.8	12
80	Can Simple Salts Influence Self-Assembly in Oil? Multivalent Cations as Efficient Gelators of Lecithin Organosols. <i>Langmuir</i> , 2010, 26, 13831-13838.	1.6	53
81	Nanostructured Organic Semiconductors via Directed Supramolecular Assembly. <i>ACS Nano</i> , 2010, 4, 2721-2729.	7.3	86
82	Nanostructured Polymers Prepared Using a Self-Assembled Nanofibrillar Scaffold as a Reverse Template. <i>Journal of Physical Chemistry B</i> , 2009, 113, 8026-8030.	1.2	20
83	Templated Assembly of Block Copolymer toward Nonequilibrium Nanostructures in Thin Films. <i>Macromolecules</i> , 2009, 42, 5761-5765.	2.2	38
84	Self-assembled organogels obtained by adding minute concentrations of a bile salt to AOT reverse micelles. <i>Soft Matter</i> , 2008, 4, 1086.	1.2	48
85	A Facile Route for Creating Reverse Vesicles: Insights into Reverse Self-Assembly in Organic Liquids. <i>Journal of the American Chemical Society</i> , 2008, 130, 8813-8817.	6.6	82
86	Strain-Stiffening Response in Transient Networks Formed by Reverse Wormlike Micelles. <i>Langmuir</i> , 2008, 24, 8405-8408.	1.6	33
87	Hierarchical Assemblies of Block-Copolymer-Based Supramolecules in Thin Films. <i>Macromolecules</i> , 2008, 41, 6453-6462.	2.2	106
88	Small-angle neutron scattering measurement of silicon nanoparticle size. <i>Nanotechnology</i> , 2008, 19, 085715.	1.3	26
89	Contrasting Effects of Temperature on the Rheology of Normal and Reverse Wormlike Micelles. <i>Langmuir</i> , 2007, 23, 372-376.	1.6	95
90	Surfactant Vesicles for High-Efficiency Capture and Separation of Charged Organic Solutes. <i>Langmuir</i> , 2007, 23, 8965-8971.	1.6	53

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91	A New Reverse Wormlike Micellar System: Mixtures of Bile Salt and Lecithin in Organic Liquids. Journal of the American Chemical Society, 2006, 128, 5751-5756.	6.6	140
92	Studies on blends of binary crystalline polymers: Miscibility and crystallization behavior in PBT/PAr(I27-T73). Polymer, 2006, 47, 8380-8388.	1.8	21