Shih-Huang Tung

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5644091/publications.pdf

Version: 2024-02-01

92 papers	2,849 citations	147801 31 h-index	189892 50 g-index
92 all docs	92 docs citations	92 times ranked	3770 citing authors

#	Article	IF	Citations
1	Solution Processable Pentafluorophenyl Endâ€Capped Dithienothiophene Organic Semiconductors for Holeâ€Transporting Organic Field Effect Transistors. Advanced Electronic Materials, 2022, 8, 2100648.	5.1	7
2	Heteroalkylâ€Substitution in Molecular Organic Semiconductors: Chalcogen Effect on Crystallography, Conformational Lock, and Charge Transport. Advanced Functional Materials, 2022, 32, .	14.9	22
3	Tunable Photoelectric Properties of nâ€Type Semiconducting Polymer:Small Molecule Blends for Red Light Sensing Phototransistors. Advanced Optical Materials, 2022, 10, .	7.3	5
4	Sustainable Alternatives to Nondegradable Medical Plastics. ACS Sustainable Chemistry and Engineering, 2022, 10, 4792-4806.	6.7	15
5	Amphiphilic Thermoresponsive Poly(Hydroxyaminoethers) as Effective Emulsifiers for Preparation of Waterborne Epoxy Resins. Macromolecular Materials and Engineering, 2022, 307, .	3.6	3
6	A Solution Processable Dithioalkyl Dithienothiophene (DSDTT) Based Small Molecule and Its Blends for High Performance Organic Field Effect Transistors. ACS Nano, 2021, 15, 727-738.	14.6	21
7	Additive-induced ordered structures formed by PC71BM fullerene derivatives. Soft Matter, 2021, 17, 810-814.	2.7	0
8	Solutionâ€Processable Multifused Thiophene Small Molecules and Conjugated Polymer Semiconducting Blend for Organic Field Effect Transistor Application. Advanced Materials Technologies, 2021, 6, 2001028.	5.8	14
9	Poly(ether sulfone)-Based Anion Exchange Membranes Containing Dense Quaternary Ammonium Cations and Their Application for Fuel Cells. ACS Applied Energy Materials, 2021, 4, 2201-2217.	5.1	14
10	Methyl-Branched Side Chains on Polythiophene Suppress Chain Mobility and Crystallization to Enhance Photovoltaic Performance. Macromolecules, 2021, 54, 3689-3699.	4.8	3
11	On the length of lecithin reverse wormlike micelles induced by inorganic salts: Binding site matters. Journal of Molecular Liquids, 2021, 329, 115543.	4.9	4
12	Controlled Synthesis of Poly[(3-alkylthio)thiophene]s and Their Application to Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2021, 13, 31898-31909.	8.0	21
13	Strengthening the Intrachain Interconnection of Polymers by the Naphthalene Diimideâ€“Pyrene Complementary Interactions. Macromolecules, 2021, 54, 7282-7290.	4.8	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. Chemical Engineering Journal, 2021, 418, 129421.	12.7	17
15	On the Formation Mechanism of Nonsolvent-Induced Porous Polylactide Electrospun Fibers. ACS Applied Polymer Materials, 2021, 3, 5096-5104.	4.4	10
16	Thienoisoindigo (TII)â€Based Quinoidal Small Molecules for Highâ€Performance nâ€Type Organic Field Effect Transistors. Advanced Science, 2021, 8, 2002930.	11.2	28
17	Photoelectric effect of hybrid ultraviolet-sensitized phototransistors from an n-type organic semiconductor and an all-inorganic perovskite quantum dot photosensitizer. Nanoscale, 2021, 13, 20498-20507.	5.6	5
18	Light Down-Converter Based on Luminescent Nanofibers from the Blending of Conjugated Rod-Coil Block Copolymers and Perovskite through Electrospinning. Polymers, 2020, 12, 84.	4.5	10

#	Article	IF	Citations
19	Quinoidal thioalkyl-substituted bithiophene small molecule semiconductors for n-type organic field effect transistors. Journal of Materials Chemistry C, 2020, 8, 15450-15458.	5.5	12
20	Size-dependent phase separation and thermomechanical properties of thermoplastic polyurethanes. Polymer, 2020, 210, 123075.	3.8	14
21	Facile synthesis toward self-dispersible waterborne comb-like Poly(hydroxyaminoethers). Polymer, 2020, 196, 122464.	3.8	5
22	Accounting for Ï€â€“Ï€ stacking interactions in the mesoscopic models of conjugated polymers. Molecular Systems Design and Engineering, 2020, 5, 1137-1146.	3.4	21
23	Environmentally Friendly Resistive Switching Memory Devices with DNA as the Active Layer and Bio-Based Polyethylene Furanoate as the Substrate. ACS Sustainable Chemistry and Engineering, 2020, 8, 5100-5106.	6.7	34
24	Correlations between temperature-dependent rheology and electrostatic interactions in reverse wormlike micelles induced by inorganic salts. Soft Matter, 2020, 16, 3505-3513.	2.7	11
25	Facile Fabrication of Stretchable Touch-Responsive Perovskite Light-Emitting Diodes Using Robust Stretchable Composite Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 14408-14415.	8.0	46
26	Solution Processable Pseudo n-Thienoacenes via Intramolecular SÂ·Â·Â·S Lock for High Performance Organic Field Effect Transistors. Chemistry of Materials, 2020, 32, 1422-1429.	6.7	38
27	Solution-Processable Quinoidal Dithioalkylterthiophene-Based Small Molecules Pseudo-Pentathienoacenes via an Intramolecular SÂ·Â·Â·S Lock for High-Performance n-Type Organic Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 25081-25091.	8.0	26
28	A facile strategy to achieve fully bio-based epoxy thermosets from eugenol. Green Chemistry, 2019, 21, 4475-4488.	9.0	95
29	Effect of a conjugated/elastic block sequence on the morphology and electronic properties of polythiophene based stretchable block copolymers. Polymer Chemistry, 2019, 10, 5452-5464.	3.9	29
30	Facile 3D Boron Nitride Integrated Electrospun Nanofibrous Membranes for Purging Organic Pollutants. Nanomaterials, 2019, 9, 1383.	4.1	16
31	Tunable Phospholipid Nanopatterns Mediated by Cholesterol with Sub-3 nm Domain Size. Langmuir, 2019, 35, 3383-3390.	3.5	0
32	Facile Preparation of Cu/Ag Core/Shell Electrospun Nanofibers as Highly Stable and Flexible Transparent Conductive Electrodes for Optoelectronic Devices. ACS Applied Materials & Interfaces, 2019, 11, 10118-10127.	8.0	50
33	Novel ultra-stable and highly luminescent white light-emitting diodes from perovskite quantum dotsâ€”Polymer nanofibers through biaxial electrospinning. APL Materials, 2019, 7, .	5.1	42
34	Oligo(ethylene glycol) side chain effect on the physical properties and molecular arrangement of oligothiopheneâ€“isoindigo based conjugated polymers. Soft Matter, 2019, 15, 9468-9473.	2.7	3
35	Facile approach for rapid self-assembly of rod-coil block copolymers. Polymer, 2018, 139, 20-25.	3.8	5
36	Uniform Luminous Perovskite Nanofibers with Colorâ€Tunability and Improved Stability Prepared by Oneâ€Step Core/Shell Electrospinning. Small, 2018, 14, e1704379.	10.0	93

#	Article	IF	Citations
37	Honeycomb Surface with Shape Memory Behavior Fabricated via Breath Figure Process. Macromolecular Materials and Engineering, 2018, 303, 1700433.	3.6	13
38	Blends of polythiophene nanowire/fluorine rubber with multiscale phase separation suitable for stretchable semiconductors. Polymer, 2018, 155, 146-151.	3.8	30
39	Side Chain Effects on the Optoelectronic Properties and Self-Assembly Behaviors of Terthiopheneâ€“Thieno[3,4-c]pyrrole-4,6-dione Based Conjugated Polymers. Macromolecules, 2018, 51, 7828-7835.	4.8	14
40	Solutionâ€Processed Highâ€Performance Tetrathienothiopheneâ€Based Small Molecular Blends for Ambipolar Charge Transport. Advanced Functional Materials, 2018, 28, 1801025.	14.9	28
41	Electrospun Nanofibers: Uniform Luminous Perovskite Nanofibers with Color-Tunability and Improved Stability Prepared by One-Step Core/Shell Electrospinning (Small 22/2018). Small, 2018, 14, 1870103.	10.0	2
42	Polymersomes with high loading capacity prepared by direct self-assembly of block copolymers in drugs. Polymer, 2018, 134, 117-124.	3.8	9
43	Bioâ€Based Transparent Conductive Film Consisting of Polyethylene Furanoate and Silver Nanowires for Flexible Optoelectronic Devices. Macromolecular Rapid Communications, 2018, 39, e1800271.	3.9	34
44	Control over Molecular Architectures of Carbohydrate-Based Block Copolymers for Stretchable Electrical Memory Devices. Macromolecules, 2018, 51, 4966-4975.	4.8	32
45	Conception of Stretchable Resistive Memory Devices Based on Nanostructureâ€Controlled Carbohydrateâ€blockâ€Polyisoprene Block Copolymers. Advanced Functional Materials, 2017, 27, 1606161.	14.9	76
46	One-Step Electrospinning To Produce Nonsolvent-Induced Macroporous Fibers with Ultrahigh Oil Adsorption Capability. Macromolecules, 2017, 50, 2528-2534.	4.8	102
47	High performance solution-processable tetrathienoacene (TTAR) based small molecules for organic field effect transistors (OFETs). Chemical Communications, 2017, 53, 5898-5901.	4.1	28
48	Solutionâ€Processable Dithienothiophenoquinoid (DTTQ) Structures for Ambientâ€Stable nâ€Channel Organic Field Effect Transistors. Advanced Functional Materials, 2017, 27, 1606761.	14.9	62
49	Self-Assembly of Lecithin and Bile Salt in the Presence of Inorganic Salt in Water: Mesoscale Computer Simulation. Journal of Physical Chemistry B, 2017, 121, 7878-7888.	2.6	18
50	Iterative synthesis of monodisperse pendants for making comb-like polyurethanes. Polymer, 2017, 119, 1-12.	3.8	15
51	A stable, efficient textile-based flexible perovskite solar cell with improved washable and deployable capabilities for wearable device applications. RSC Advances, 2017, 7, 54361-54368.	3.6	51
52	Insight into the mechanism and outcoupling enhancement of excimer-associated white light generation. Chemical Science, 2016, 7, 3556-3563.	7.4	108
53	Self-assembly of micelles in organic solutions of lecithin and bile salt: Mesoscale computer simulation. Chemical Physics Letters, 2016, 664, 16-22.	2.6	8
54	Tailored honeycomb-like polymeric films based on amphiphilic poly(urea/malonamide) dendrons. RSC Advances, 2016, 6, 91981-91990.	3.6	13

#	Article	IF	Citations
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, .	3.7	0
56	Crosslinkable high dielectric constant polymer dielectrics for low voltage organic fieldâ€effect transistor memory devices. Journal of Polymer Science Part A, 2016, 54, 3224-3236.	2.3	9
57	Effects of Alkali Cations and Halide Anions on the Self-Assembly of Phosphatidylcholine in Oils. Langmuir, 2016, 32, 12166-12174.	3.5	19
58	Surface Energyâ€Mediated Selfâ€Patterning for High Performance Sprayâ€Deposited Organic Field Effect Transistors. Advanced Materials Interfaces, 2016, 3, 1500714.	3.7	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.	7.8	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.	4.1	9
61	Effects of amorphous poly(3â€hexylthiophene) on activeâ€layer structure and solar cells performance. Journal of Polymer Science, Part B: Polymer Physics, 2016, 54, 975-985.	2.1	6
62	Biological Hydrogels Formed by Swollen Multilamellar Liposomes. Langmuir, 2015, 31, 13312-13320.	3.5	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.	4.8	16
64	Electrospun Poly(3â€hexylthiophene) Nanofibers with Highly Extended and Oriented Chains Through Secondary Electric Field for Highâ€Performance Fieldâ€Effect Transistors. Advanced Electronic Materials, 2015, 1, 1400028.	5.1	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.	8.0	47
66	A silole copolymer containing a ladder-type heptacylic arene and naphthobisoxadiazole moieties for highly efficient polymer solar cells. Energy and Environmental Science, 2015, 8, 552-557.	30.8	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.	3.6	7
68	Mixtures of Lecithin and Bile Salt Can Form Highly Viscous Wormlike Micellar Solutions in Water. Langmuir, 2014, 30, 10221-10230.	3.5	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.	8.0	19
70	Spontaneous origination of chirality in melts of diblock copolymers with rigid and flexible blocks. Polymer Science - Series C, 2013, 55, 74-85.	1.7	7
71	Molecular Interactions between Lecithin and Bile Salts/Acids in Oils and Their Effects on Reverse Micellization. Langmuir, 2013, 29, 3879-3888.	3.5	29
72	Fluorinated thienyl-quinoxaline-based Dâ€“Ï€â€“A-type copolymer toward efficient polymer solar cells: synthesis, characterization, and photovoltaic properties. Polymer Chemistry, 2013, 4, 3411.	3.9	46

#	Article	IF	Citations
73	Self-assembled clay films with a plateletâ€“void multilayered nanostructure and flame-blocking properties. Scientific Reports, 2013, 3, 2621.	3.3	16
74	Tunable electrical memory characteristics by the morphology of self-assembled block copolymers:PCBM nanocomposite films. Soft Matter, 2012, 8, 526-535.	2.7	60
75	Effects of Annealing Solvents on the Morphology of Block Copolymer-Based Supramolecular Thin Films. Macromolecules, 2012, 45, 1562-1569.	4.8	83
76	Synthesis, Morphology, and Sensory Applications of Multifunctional Rodâ€“Coilâ€“Coil Triblock Copolymers and Their Electrospun Nanofibers. ACS Applied Materials & Interfaces, 2012, 4, 3387-3395.	8.0	63
77	Microdomain control in block copolymer-based supramolecular thin films through varying the grafting density of additives. Soft Matter, 2011, 7, 5660.	2.7	16
78	Self-assembled structures in rod-coil block copolymers with hydrogen-bonded amphiphiles. Soft Matter, 2011, 7, 4198.	2.7	23
79	Self-assembly of polystyrene-b-poly(4-vinylpyridine) in deoxycholic acid melt. Polymer, 2011, 52, 3994-4000.	3.8	12
80	Can Simple Salts Influence Self-Assembly in Oil? Multivalent Cations as Efficient Gelators of Lecithin Organosols. Langmuir, 2010, 26, 13831-13838.	3.5	53
81	Nanostructured Organic Semiconductors via Directed Supramolecular Assembly. ACS Nano, 2010, 4, 2721-2729.	14.6	86
82	Nanostructured Polymers Prepared Using a Self-Assembled Nanofibrillar Scaffold as a Reverse Template. Journal of Physical Chemistry B, 2009, 113, 8026-8030.	2.6	20
83	Templated Assembly of Block Copolymer toward Nonequilibrium Nanostructures in Thin Films. Macromolecules, 2009, 42, 5761-5765.	4.8	38
84	Self-assembled organogels obtained by adding minute concentrations of a bile salt to AOT reverse micelles. Soft Matter, 2008, 4, 1086.	2.7	48
85	A Facile Route for Creating â€œReverseâ€•Vesicles: Insights into â€œReverseâ€•Self-Assembly in Organic Liquids. Journal of the American Chemical Society, 2008, 130, 8813-8817.	13.7	82
86	Strain-Stiffening Response in Transient Networks Formed by Reverse Wormlike Micelles. Langmuir, 2008, 24, 8405-8408.	3.5	33
87	Hierarchical Assemblies of Block-Copolymer-Based Supramolecules in Thin Films. Macromolecules, 2008, 41, 6453-6462.	4.8	106
88	Small-angle neutron scattering measurement of silicon nanoparticle size. Nanotechnology, 2008, 19, 085715.	2.6	26
89	Contrasting Effects of Temperature on the Rheology of Normal and Reverse Wormlike Micelles. Langmuir, 2007, 23, 372-376.	3.5	95
90	Surfactant Vesicles for High-Efficiency Capture and Separation of Charged Organic Solutes. Langmuir, 2007, 23, 8965-8971.	3.5	53

#	Article	IF	Citations
91	A New Reverse Wormlike Micellar System:Â Mixtures of Bile Salt and Lecithin in Organic Liquids. Journal of the American Chemical Society, 2006, 128, 5751-5756.	13.7	140
92	Studies on blends of binary crystalline polymers: Miscibility and crystallization behavior in PBT/PAr(I27-T73). Polymer, 2006, 47, 8380-8388.	3.8	21