Yu-Sheng Hsiao

List of Publications by Year
in descending order

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79 papers	3,589 citations	159585 30 h-index	138484 58 g-index
80 all docs	80 docs citations	80 times ranked	5825 citing authors

#	Article	IF	Citations
1	Doping with W6+ ions enhances the performance of TiNb2O7 as an anode material for lithium-ion batteries. Applied Surface Science, 2022, 573, 151517.	6.1	25
2	Porous cellulose acetate mixed-matrix membrane adsorbents for efficient clearance of p-cresol and creatinine from synthetic serum. Journal of the Taiwan Institute of Chemical Engineers, 2022, 133, 104199.	5.3	6
3	A multifunctional ligand for defect passivation of perovskite film realizes air-stable perovskite solar cells with efficiencies exceeding 20%. Sustainable Energy and Fuels, 2022, 6, 1950-1958.	4.9	6
4	Nonsolvent-induced phase separation preparation of porous TOPO-mixed polyethersulfone membranes for selective clearance of p-cresol from simulated serum. Separation and Purification Technology, 2022, 290, 120911.	7.9	6
5	High-performance supercapacitor based on a ternary nanocomposites of NiO, polyaniline, and Ni/NiO-decorated MWCNTs. Journal of the Taiwan Institute of Chemical Engineers, 2022, 134, 104318.	5.3	10
6	Microfluidic organic bioelectronic chips for efficient isolation of trophoblast cells using a combination of rational catenation and electrically controllable refining. Materials Chemistry and Physics, 2022, 285, 126164.	4.0	6
7	Sensitive Detection of Sweat Cortisol Using an Organic Electrochemical Transistor Featuring Nanostructured Poly(3,4-Ethylenedioxythiophene) Derivatives in the Channel Layer. Analytical Chemistry, 2022, 94, 7584-7593.	6.5	30
8	Co2+-Doped BiOBrxCl1-x hierarchical microspheres display enhanced visible-light photocatalytic performance in the degradation of rhodamine B and antibiotics and the inactivation of E. coli. Journal of Hazardous Materials, 2021, 402, 123457.	12.4	30
9	Enhanced electrochromic performance of carbon-coated V2O5 derived from a metalâ€“organic framework. Applied Surface Science, 2021, 542, 148498.	6.1	28
10	High-performance Li-Ion capacitor constructed from biomass-derived porous carbon and high-rate Li4Ti5O12. Applied Surface Science, 2021, 543, 148717.	6.1	19
11	Facile Fabrication of Microwrinkled Poly(3,4-Ethylenedioxythiophene) Films that Promote Neural Differentiation under Electrical Stimulation. ACS Applied Bio Materials, 2021, 4, 2354-2362.	4.6	10
12	Dual-Gate Enhancement of the Sensitivity of miRNA Detection of a Solution-Gated Field-Effect Transistor Featuring a Graphene Oxide/Graphene Layered Structure. ACS Applied Electronic Materials, 2021, 3, 4300-4307.	4.3	9
13	Design and fabrication of electrospun mixed-matrix multi-layered membranes containing tri-n-octylphosphine oxide for efficient adsorption of p-cresol. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 627, 127192.	4.7	1
14	Rational design of a highly porous electronic scaffold with concurrent enhancement in cell behaviors and differentiation under electrical stimulation. Journal of Materials Chemistry B, 2021, 9, 7674-7685.	5.8	9
15	MWCNT-embedded Li4Ti5O12 microspheres interfacially modified with polyaniline as ternary composites for high-performance lithium ion battery anodes. Ceramics International, 2020, 46, 6801-6810.	4.8	11
16	Preparation of porous phosphine oxide-incorporated polymer membranes for selective removal of p-cresol from simulated serum: A preliminary study. Journal of the Taiwan Institute of Chemical Engineers, 2020, 107, 1-14.	5.3	6
17	Phase and morphology control in the synthesis of Co3O4 nanosphere/Î±-Co(OH)2 nanosheet hybrids for application in supercapacitors. Journal of the Taiwan Institute of Chemical Engineers, 2020, 110, 163-172.	5.3	11
18	Adsorptive removal of p-cresol and creatinine from simulated serum using porous polyethersulfone mixed-matrix membranes. Separation and Purification Technology, 2020, 245, 116884.	7.9	22

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19	PEDOT-modified laser-scribed graphene films as bginderâ€“ and metallic current collectorâ€“free electrodes for large-sized supercapacitors. Applied Surface Science, 2020, 518, 146193.	6.1	23
20	Spray-dried nanoporous NiO/PANI:PSS composite microspheres for high-performance asymmetric supercapacitors. Composites Part B: Engineering, 2019, 175, 107066.	12.0	18
21	Carbon Nanotube/Conducting Polymer Hybrid Nanofibers as Novel Organic Bioelectronic Interfaces for Efficient Removal of Protein-Bound Uremic Toxins. ACS Applied Materials & Interfaces, 2019, 11, 43843-43856.	8.0	40
22	Electrochemical Polymerization of PEDOTâ€“Graphene Oxideâ€“Heparin Composite Coating for Anti-fouling and Anti-clotting of Cardiovascular Stents. Polymers, 2019, 11, 1520.	4.5	22
23	Conductive PProDOT-Me2â€“capped Li4Ti5O12 microspheres with an optimized Ti3+/Ti4+ ratio for enhanced and rapid lithium-ion storage. Ceramics International, 2019, 45, 15252-15261.	4.8	14
24	Surface modification of Ni(OH)2 nanosheets with PEDOT:PSS for supercapacitor and bendable electrochromic applications. Solar Energy Materials and Solar Cells, 2019, 195, 1-11.	6.2	33
25	Nanofibers: Poly(3,4-ethylenedioxythiophene) Polymer Composite Bioelectrodes with Designed Chemical and Topographical Cues to Manipulate the Behavior of PC12 Neuronal Cells (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	34.3	
26	Organic Electrochemical Transistors/SERS-Active Hybrid Biosensors Featuring Gold Nanoparticles Immobilized on Thiol-Functionalized PEDOT Films. Frontiers in Chemistry, 2019, 7, 281.	3.6	19
27	Random and aligned electrospun PLGA nanofibers embedded in microfluidic chips for cancer cell isolation and integration with air foam technology for cell release. Journal of Nanobiotechnology, 2019, 17, 31.	9.1	41
28	Poly(3,4â€ethylenedioxythiophene) Polymer Composite Bioelectrodes with Designed Chemical and Topographical Cues to Manipulate the Behavior of PC12 Neuronal Cells. Advanced Materials Interfaces, 2019, 6, 1801576.	3.7	34
29	Spray-drying synthesis of Li4Ti5O12 microspheres in pilot scale using TiO2 nanosheets as starting materials and their application in high-rate lithium ion battery. Journal of Alloys and Compounds, 2019, 773, 376-386.	5.5	20
30	RNA Biomarkers: Glycan Stimulation Enables Purification of Prostate Cancer Circulating Tumor Cells on PEDOT NanoVelcro Chips for RNA Biomarker Detection (Adv. Healthcare Mater. 3/2018). Advanced Healthcare Materials, 2018, 7, 1870013.	7.6	3
31	Clearance of low molecular-weight uremic toxins p-cresol, creatinine, and urea from simulated serum by adsorption. Journal of Molecular Liquids, 2018, 252, 203-210.	4.9	47
32	Facile Synthesis of Diamino-Modified Graphene/Polyaniline Semi-Interpenetrating Networks with Practical High Thermoelectric Performance. ACS Applied Materials & Interfaces, 2018, 10, 4946-4952.	8.0	30
33	Thermally conductive polymeric composites incorporating 3D MWCNT/PEDOT:PSS scaffolds. Composites Part B: Engineering, 2018, 136, 46-54.	12.0	39
34	Facile preparation of WO 3 /PEDOT:PSS composite for inkjet printed electrochromic window and its performance for heat shielding. Dyes and Pigments, 2018, 148, 465-473.	3.7	64
35	Glycan Stimulation Enables Purification of Prostate Cancer Circulating Tumor Cells on PEDOT NanoVelcro Chips for RNA Biomarker Detection. Advanced Healthcare Materials, 2018, 7, 1700701.	7.6	38
36	Ternary composite based on homogeneous Ni(OH)2 on graphene with Ag nanoparticles as nanospacers for efficient supercapacitor. Chemical Engineering Journal, 2018, 334, 2058-2067.	12.7	61

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37	Doping and surface modification enhance the applicability of Li4Ti5O12 microspheres as high-rate anode materials for lithium ion batteries. Ceramics International, 2018, 44, 23063-23072.	4.8	23
38	Microwave-assisted synthesis of TiO2/WS2 heterojunctions with enhanced photocatalytic activity. Journal of the Taiwan Institute of Chemical Engineers, 2018, 91, 489-498.	5.3	20
39	The effect of wetting property on electrochromic properties offunctionalized poly(3,4-ethylenedioxythiophene) films. Dyes and Pigments, 2017, 145, 95-102.	3.7	17
40	High-performance, robust, stretchable organic photovoltaics using commercially available tape as a deformable substrate. Solar Energy Materials and Solar Cells, 2017, 165, 111-118.	6.2	26
41	Robust multifunctional superhydrophobic coatings with enhanced water/oil separation, self-cleaning, anti-corrosion, and anti-biological adhesion. Chemical Engineering Journal, 2017, 314, 347-357.	12.7	208
42	Poly(3,4-ethylenedioxythiophene)-Based Nanofiber Mats as an Organic Bioelectronic Platform for Programming Multiple Capture/Release Cycles of Circulating Tumor Cells. ACS Applied Materials & Interfaces, 2017, 9, 30329-30342.	8.0	39
43	Imprinted NanoVelcro Microchips for Isolation and Characterization of Circulating Fetal Trophoblasts: Toward Noninvasive Prenatal Diagnostics. ACS Nano, 2017, 11, 8167-8177.	14.6	68
44	Self-assembled coronene nanofiber arrays: toward integrated organic bioelectronics for efficient isolation, detection, and recovery of cancer cells. RSC Advances, 2017, 7, 36765-36776.	3.6	4
45	Graphene-based thermoplastic composites and their application for LED thermal management. Carbon, 2016, 102, 66-73.	10.3	157
46	Interfacial engineering of melamine sponges using hydrophobic TiO 2 nanoparticles for effective oil/water separation. Journal of the Taiwan Institute of Chemical Engineers, 2016, 67, 476-483.	5.3	56
47	Humidity-switch chromism of aniline-pentamer in Nafion. Journal of Polymer Research, 2016, 23, 1.	2.4	1
48	Three-dimensional carbon nanotube based polymer composites for thermal management. Composites Part A: Applied Science and Manufacturing, 2016, 90, 678-686.	7.6	65
49	Organic Photovoltaics and Bioelectrodes Providing Electrical Stimulation for PC12 Cell Differentiation and Neurite Outgrowth. ACS Applied Materials & Interfaces, 2016, 8, 9275-9284.	8.0	56
50	Influence of the bridging atom on the electrochromic performance of a cyclopentadithiophene polymer. Solar Energy Materials and Solar Cells, 2016, 150, 43-50.	6.2	13
51	Few-layer graphene based sponge as a highly efficient, recyclable and selective sorbent for organic solvents and oils. RSC Advances, 2015, 5, 53741-53748.	3.6	28
52	Fullerene C 70 decorated TiO 2 nanowires for visible-light-responsive photocatalyst. Applied Surface Science, 2015, 355, 536-546.	6.1	44
53	Efficient ternary bulk heterojunction solar cells based on small molecules only. Journal of Materials Chemistry A, 2015, 3, 10512-10518.	10.3	45
54	Integrated 3D conducting polymer-based bioelectronics for capture and release of circulating tumor cells. Journal of Materials Chemistry B, 2015, 3, 5103-5110.	5.8	46

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55	3D Bioelectronic Interface: Capturing Circulating Tumor Cells onto Conducting Polymerâ€Based Micro/Nanorod Arrays with Chemical and Topographical Control. Small, 2014, 10, 3012-3017.	10.0	61
56	Molecular Recognition Enables Nanosubstrate-Mediated Delivery of Gene-Encapsulated Nanoparticles with High Efficiency. ACS Nano, 2014, 8, 4621-4629.	14.6	46
57	Nitroanilines enhancing the holographic data storage characteristics of the 9,10â€phenanthrenequinoneâ€doped poly(methyl methacrylate) photopolymer. Journal of Applied Polymer Science, 2013, 127, 643-650.	2.6	7
58	The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. Applied Physics Letters, 2013, 103, .	3.3	43
59	Electrically tunable organic bioelectronics for spatial and temporal manipulation of neuron-like pheochromocytoma (PC-12) cells. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4321-4328.	2.4	20
60	Multifunctional Grapheneâ€“PEDOT Microelectrodes for Onâ€Chip Manipulation of Human Mesenchymal Stem Cells. Advanced Functional Materials, 2013, 23, 4649-4656.	14.9	8
61	Electrodes: Multifunctional Grapheneâ€“PEDOT Microelectrodes for Onâ€Chip Manipulation of Human Mesenchymal Stem Cells (Adv. Funct. Mater. 37/2013). Advanced Functional Materials, 2013, 23, 4648-4648.	14.9	29
62	Dual-color electrochromic films incorporating a periodic polymer nanostructure. RSC Advances, 2012, 2, 4746.	3.6	13
63	Improving the Light Trapping Efficiency of Plasmonic Polymer Solar Cells through Photon Management. Journal of Physical Chemistry C, 2012, 116, 20731-20737.	3.1	122
64	Controlling vertical alignment of phthalocyanine nanofibers on transparent graphene-coated ITO electrodes for organic field emitters. Journal of Materials Chemistry, 2012, 22, 7837.	6.7	10
65	Performance of chromophore-type electrochromic devices employing indium tin oxide nanorod optical amplification. Solar Energy Materials and Solar Cells, 2012, 98, 191-197.	6.2	15
66	Manipulating location, polarity, and outgrowth length of neuron-like pheochromocytoma (PC-12) cells on patterned organic electrode arrays. Lab on A Chip, 2011, 11, 3674.	6.0	46
67	Facile Transfer Method for Fabricating Light-Harvesting Systems for Polymer Solar Cells. Journal of Physical Chemistry C, 2011, 115, 11864-11870.	3.1	25
68	Nanoscale Correlation between Exciton Dissociation and Carrier Transport in Silole-Containing Cyclopentadithiophene-Based Bulk Heterojunction Films. Journal of Physical Chemistry C, 2011, 115, 2398-2405.	3.1	24
69	Surface Plasmonic Effects of Metallic Nanoparticles on the Performance of Polymer Bulk Heterojunction Solar Cells. ACS Nano, 2011, 5, 959-967.	14.6	959
70	Molecular-weight-dependent nanoscale morphology in silole-containing cyclopentadithiophene polymer and fullerene derivative blends. Organic Electronics, 2011, 12, 1755-1762.	2.6	23
71	Selective growth and enhanced field emission properties of micropatterned iron phthalocyanine nanofiber arrays. Organic Electronics, 2011, 12, 1826-1834.	2.6	19
72	Low-temperature formation of self-assembled 1,5-diaminoanthraquinone nanofibers: Substrate effects and field emission characteristics. Organic Electronics, 2011, 12, 686-693.	2.6	13

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73	Investigation of the growth of focal adhesions using protein nanoarrays fabricated by nanocontact printing using size tunable polymeric nanopillars. Nanotechnology, 2011, 22, 265302.	2.6	10
74	Correlation between Exciton Lifetime Distribution and Morphology of Bulk Heterojunction Films after Solvent Annealing. Journal of Physical Chemistry C, 2010, 114, 9062-9069.	3.1	29
75	Morphology Evolution of Spin-Coated Films of Poly(thiopheneâˆ’phenyleneâˆ’thiophene) and [6,6]-Phenyl-C₇₁-butyric Acid Methyl Ester by Solvent Effect. Macromolecules, 2010, 43, 3399-3405.	4.8	57
76	All-solution-processed inverted polymer solar cells on granular surface-nickelized polyimide. Organic Electronics, 2009, 10, 551-561.	2.6	40
77	Chemical formation of palladium-free surface-nickelized polyimide film for flexible electronics. Thin Solid Films, 2008, 516, 4258-4266.	1.8	44
78	High-conductivity poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) film for use in ITO-free polymer solar cells. Journal of Materials Chemistry, 2008, 18, 5948.	6.7	157
79	Morphological control of CuPc and its application in organic solar cells. Nanotechnology, 2008, 19, 415603.	2.6	54