

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
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80
all docs

80
docs citations

80
times ranked

5825
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Plasmonic Effects of Metallic Nanoparticles on the Performance of Polymer Bulk Heterojunction Solar Cells. <i>ACS Nano</i> , 2011, 5, 959-967.	14.6	959
2	Robust multifunctional superhydrophobic coatings with enhanced water/oil separation, self-cleaning, anti-corrosion, and anti-biological adhesion. <i>Chemical Engineering Journal</i> , 2017, 314, 347-357.	12.7	208
3	High-conductivity poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate) film for use in ITO-free polymer solar cells. <i>Journal of Materials Chemistry</i> , 2008, 18, 5948.	6.7	157
4	Graphene-based thermoplastic composites and their application for LED thermal management. <i>Carbon</i> , 2016, 102, 66-73.	10.3	157
5	Improving the Light Trapping Efficiency of Plasmonic Polymer Solar Cells through Photon Management. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20731-20737.	3.1	122
6	Imprinted NanoVelcro Microchips for Isolation and Characterization of Circulating Fetal Trophoblasts: Toward Noninvasive Prenatal Diagnostics. <i>ACS Nano</i> , 2017, 11, 8167-8177.	14.6	68
7	Three-dimensional carbon nanotube based polymer composites for thermal management. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 90, 678-686.	7.6	65
8	Facile preparation of WO ₃ /PEDOT:PSS composite for inkjet printed electrochromic window and its performance for heat shielding. <i>Dyes and Pigments</i> , 2018, 148, 465-473.	3.7	64
9	3D Bioelectronic Interface: Capturing Circulating Tumor Cells onto Conducting Polymer-Based Micro/Nanorod Arrays with Chemical and Topographical Control. <i>Small</i> , 2014, 10, 3012-3017.	10.0	61
10	Ternary composite based on homogeneous Ni(OH) ₂ on graphene with Ag nanoparticles as nanospacers for efficient supercapacitor. <i>Chemical Engineering Journal</i> , 2018, 334, 2058-2067.	12.7	61
11	Morphology Evolution of Spin-Coated Films of Poly(thiophene- <i>h</i> phenylene- <i>h</i> thiophene) and [6,6]-Phenyl-C ₇₁ -butyric Acid Methyl Ester by Solvent Effect. <i>Macromolecules</i> , 2010, 43, 3399-3405.	4.8	57
12	Interfacial engineering of melamine sponges using hydrophobic TiO ₂ nanoparticles for effective oil/water separation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 67, 476-483.	5.3	56
13	Organic Photovoltaics and Bioelectrodes Providing Electrical Stimulation for PC12 Cell Differentiation and Neurite Outgrowth. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 9275-9284.	8.0	56
14	Morphological control of CuPc and its application in organic solar cells. <i>Nanotechnology</i> , 2008, 19, 415603.	2.6	54
15	Clearance of low molecular-weight uremic toxins p-cresol, creatinine, and urea from simulated serum by adsorption. <i>Journal of Molecular Liquids</i> , 2018, 252, 203-210.	4.9	47
16	Manipulating location, polarity, and outgrowth length of neuron-like pheochromocytoma (PC-12) cells on patterned organic electrode arrays. <i>Lab on A Chip</i> , 2011, 11, 3674.	6.0	46
17	Molecular Recognition Enables Nanosubstrate-Mediated Delivery of Gene-Encapsulated Nanoparticles with High Efficiency. <i>ACS Nano</i> , 2014, 8, 4621-4629.	14.6	46
18	Integrated 3D conducting polymer-based bioelectronics for capture and release of circulating tumor cells. <i>Journal of Materials Chemistry B</i> , 2015, 3, 5103-5110.	5.8	46

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19	Efficient ternary bulk heterojunction solar cells based on small molecules only. <i>Journal of Materials Chemistry A</i> , 2015, 3, 10512-10518.	10.3	45
20	Chemical formation of palladium-free surface-nickelized polyimide film for flexible electronics. <i>Thin Solid Films</i> , 2008, 516, 4258-4266.	1.8	44
21	Fullerene C 70 decorated TiO 2 nanowires for visible-light-responsive photocatalyst. <i>Applied Surface Science</i> , 2015, 355, 536-546.	6.1	44
22	The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	43
23	Random and aligned electrospun PLGA nanofibers embedded in microfluidic chips for cancer cell isolation and integration with air foam technology for cell release. <i>Journal of Nanobiotechnology</i> , 2019, 17, 31.	9.1	41
24	All-solution-processed inverted polymer solar cells on granular surface-nickelized polyimide. <i>Organic Electronics</i> , 2009, 10, 551-561.	2.6	40
25	Carbon Nanotube/Conducting Polymer Hybrid Nanofibers as Novel Organic Bioelectronic Interfaces for Efficient Removal of Protein-Bound Uremic Toxins. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 43843-43856.	8.0	40
26	Poly(3,4-ethylenedioxythiophene)-Based Nanofiber Mats as an Organic Bioelectronic Platform for Programming Multiple Capture/Release Cycles of Circulating Tumor Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30329-30342.	8.0	39
27	Thermally conductive polymeric composites incorporating 3D MWCNT/PEDOT:PSS scaffolds. <i>Composites Part B: Engineering</i> , 2018, 136, 46-54.	12.0	39
28	Glycan Stimulation Enables Purification of Prostate Cancer Circulating Tumor Cells on PEDOT NanoVelcro Chips for RNA Biomarker Detection. <i>Advanced Healthcare Materials</i> , 2018, 7, 1700701.	7.6	38
29	Poly(3,4-ethylenedioxythiophene) Polymer Composite Bioelectrodes with Designed Chemical and Topographical Cues to Manipulate the Behavior of PC12 Neuronal Cells. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801576.	3.7	34
30	Surface modification of Ni(OH) ₂ nanosheets with PEDOT:PSS for supercapacitor and bendable electrochromic applications. <i>Solar Energy Materials and Solar Cells</i> , 2019, 195, 1-11.	6.2	33
31	Facile Synthesis of Diamino-Modified Graphene/Polyaniline Semi-Interpenetrating Networks with Practical High Thermoelectric Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4946-4952.	8.0	30
32	Co ²⁺ -Doped BiOBr _x Cl _{1-x} hierarchical microspheres display enhanced visible-light photocatalytic performance in the degradation of rhodamine B and antibiotics and the inactivation of E. coli. <i>Journal of Hazardous Materials</i> , 2021, 402, 123457.	12.4	30
33	Sensitive Detection of Sweat Cortisol Using an Organic Electrochemical Transistor Featuring Nanostructured Poly(3,4-Ethylenedioxythiophene) Derivatives in the Channel Layer. <i>Analytical Chemistry</i> , 2022, 94, 7584-7593.	6.5	30
34	Correlation between Exciton Lifetime Distribution and Morphology of Bulk Heterojunction Films after Solvent Annealing. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9062-9069.	3.1	29
35	Electrodes: Multifunctional Graphene- PEDOT Microelectrodes for On-Chip Manipulation of Human Mesenchymal Stem Cells (<i>Adv. Funct. Mater.</i> 37/2013). <i>Advanced Functional Materials</i> , 2013, 23, 4648-4648.	14.9	29
36	Few-layer graphene based sponge as a highly efficient, recyclable and selective sorbent for organic solvents and oils. <i>RSC Advances</i> , 2015, 5, 53741-53748.	3.6	28

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37	Enhanced electrochromic performance of carbon-coated V ₂ O ₅ derived from a metal-organic framework. <i>Applied Surface Science</i> , 2021, 542, 148498.	6.1	28
38	High-performance, robust, stretchable organic photovoltaics using commercially available tape as a deformable substrate. <i>Solar Energy Materials and Solar Cells</i> , 2017, 165, 111-118.	6.2	26
39	Facile Transfer Method for Fabricating Light-Harvesting Systems for Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11864-11870.	3.1	25
40	Doping with W ⁶⁺ ions enhances the performance of TiNb ₂ O ₇ as an anode material for lithium-ion batteries. <i>Applied Surface Science</i> , 2022, 573, 151517.	6.1	25
41	Nanoscale Correlation between Exciton Dissociation and Carrier Transport in Silole-Containing Cyclopentadithiophene-Based Bulk Heterojunction Films. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2398-2405.	3.1	24
42	Molecular-weight-dependent nanoscale morphology in silole-containing cyclopentadithiophene polymer and fullerene derivative blends. <i>Organic Electronics</i> , 2011, 12, 1755-1762.	2.6	23
43	Doping and surface modification enhance the applicability of Li ₄ Ti ₅ O ₁₂ microspheres as high-rate anode materials for lithium ion batteries. <i>Ceramics International</i> , 2018, 44, 23063-23072.	4.8	23
44	PEDOT-modified laser-scribed graphene films as binder- and metallic current collector-free electrodes for large-sized supercapacitors. <i>Applied Surface Science</i> , 2020, 518, 146193.	6.1	23
45	Electrochemical Polymerization of PEDOT-Graphene Oxide-Heparin Composite Coating for Anti-fouling and Anti-clotting of Cardiovascular Stents. <i>Polymers</i> , 2019, 11, 1520.	4.5	22
46	Adsorptive removal of p-cresol and creatinine from simulated serum using porous polyethersulfone mixed-matrix membranes. <i>Separation and Purification Technology</i> , 2020, 245, 116884.	7.9	22
47	Electrically tunable organic bioelectronics for spatial and temporal manipulation of neuron-like pheochromocytoma (PC-12) cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4321-4328.	2.4	20
48	Microwave-assisted synthesis of TiO ₂ /WS ₂ heterojunctions with enhanced photocatalytic activity. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 91, 489-498.	5.3	20
49	Spray-drying synthesis of Li ₄ Ti ₅ O ₁₂ microspheres in pilot scale using TiO ₂ nanosheets as starting materials and their application in high-rate lithium ion battery. <i>Journal of Alloys and Compounds</i> , 2019, 773, 376-386.	5.5	20
50	Selective growth and enhanced field emission properties of micropatterned iron phthalocyanine nanofiber arrays. <i>Organic Electronics</i> , 2011, 12, 1826-1834.	2.6	19
51	Organic Electrochemical Transistors/SERS-Active Hybrid Biosensors Featuring Gold Nanoparticles Immobilized on Thiol-Functionalized PEDOT Films. <i>Frontiers in Chemistry</i> , 2019, 7, 281.	3.6	19
52	High-performance Li-Ion capacitor constructed from biomass-derived porous carbon and high-rate Li ₄ Ti ₅ O ₁₂ . <i>Applied Surface Science</i> , 2021, 543, 148717.	6.1	19
53	Spray-dried nanoporous NiO/PANI:PSS composite microspheres for high-performance asymmetric supercapacitors. <i>Composites Part B: Engineering</i> , 2019, 175, 107066.	12.0	18
54	The effect of wetting property on electrochromic properties of functionalized poly(3,4-ethylenedioxythiophene) films. <i>Dyes and Pigments</i> , 2017, 145, 95-102.	3.7	17

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55	Performance of chromophore-type electrochromic devices employing indium tin oxide nanorod optical amplification. <i>Solar Energy Materials and Solar Cells</i> , 2012, 98, 191-197.	6.2	15
56	Conductive PProDOT-Me ₂ capped Li ₄ Ti ₅ O ₁₂ microspheres with an optimized Ti ³⁺ /Ti ⁴⁺ ratio for enhanced and rapid lithium-ion storage. <i>Ceramics International</i> , 2019, 45, 15252-15261.	4.8	14
57	Low-temperature formation of self-assembled 1,5-diaminoanthraquinone nanofibers: Substrate effects and field emission characteristics. <i>Organic Electronics</i> , 2011, 12, 686-693.	2.6	13
58	Dual-color electrochromic films incorporating a periodic polymer nanostructure. <i>RSC Advances</i> , 2012, 2, 4746.	3.6	13
59	Influence of the bridging atom on the electrochromic performance of a cyclopentadithiophene polymer. <i>Solar Energy Materials and Solar Cells</i> , 2016, 150, 43-50.	6.2	13
60	MWCNT-embedded Li ₄ Ti ₅ O ₁₂ microspheres interfacially modified with polyaniline as ternary composites for high-performance lithium ion battery anodes. <i>Ceramics International</i> , 2020, 46, 6801-6810.	4.8	11
61	Phase and morphology control in the synthesis of Co ₃ O ₄ nanosphere/Co(OH) ₂ nanosheet hybrids for application in supercapacitors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 110, 163-172.	5.3	11
62	Investigation of the growth of focal adhesions using protein nanoarrays fabricated by nanocontact printing using size tunable polymeric nanopillars. <i>Nanotechnology</i> , 2011, 22, 265302.	2.6	10
63	Controlling vertical alignment of phthalocyanine nanofibers on transparent graphene-coated ITO electrodes for organic field emitters. <i>Journal of Materials Chemistry</i> , 2012, 22, 7837.	6.7	10
64	Facile Fabrication of Microwrinkled Poly(3,4-Ethylenedioxythiophene) Films that Promote Neural Differentiation under Electrical Stimulation. <i>ACS Applied Bio Materials</i> , 2021, 4, 2354-2362.	4.6	10
65	High-performance supercapacitor based on a ternary nanocomposites of NiO, polyaniline, and Ni/NiO-decorated MWCNTs. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 134, 104318.	5.3	10
66	Dual-Gate Enhancement of the Sensitivity of miRNA Detection of a Solution-Gated Field-Effect Transistor Featuring a Graphene Oxide/Graphene Layered Structure. <i>ACS Applied Electronic Materials</i> , 2021, 3, 4300-4307.	4.3	9
67	Rational design of a highly porous electronic scaffold with concurrent enhancement in cell behaviors and differentiation under electrical stimulation. <i>Journal of Materials Chemistry B</i> , 2021, 9, 7674-7685.	5.8	9
68	Multifunctional Graphene/PEDOT Microelectrodes for On-Chip Manipulation of Human Mesenchymal Stem Cells. <i>Advanced Functional Materials</i> , 2013, 23, 4649-4656.	14.9	8
69	Nitroanilines enhancing the holographic data storage characteristics of the 9,10-phenanthrenequinone-doped poly(methyl methacrylate) photopolymer. <i>Journal of Applied Polymer Science</i> , 2013, 127, 643-650.	2.6	7
70	Preparation of porous phosphine oxide-incorporated polymer membranes for selective removal of p-cresol from simulated serum: A preliminary study. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 107, 1-14.	5.3	6
71	Porous cellulose acetate mixed-matrix membrane adsorbents for efficient clearance of p-cresol and creatinine from synthetic serum. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2022, 133, 104199.	5.3	6
72	A multifunctional ligand for defect passivation of perovskite film realizes air-stable perovskite solar cells with efficiencies exceeding 20%. <i>Sustainable Energy and Fuels</i> , 2022, 6, 1950-1958.	4.9	6

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73	Nonsolvent-induced phase separation preparation of porous TOPO-mixed polyethersulfone membranes for selective clearance of p-cresol from simulated serum. <i>Separation and Purification Technology</i> , 2022, 290, 120911.	7.9	6
74	Microfluidic organic bioelectronic chips for efficient isolation of trophoblast cells using a combination of rational catenation and electrically controllable refining. <i>Materials Chemistry and Physics</i> , 2022, 285, 126164.	4.0	6
75	Self-assembled coronene nanofiber arrays: toward integrated organic bioelectronics for efficient isolation, detection, and recovery of cancer cells. <i>RSC Advances</i> , 2017, 7, 36765-36776.	3.6	4
76	RNA Biomarkers: Glycan Stimulation Enables Purification of Prostate Cancer Circulating Tumor Cells on PEDOT NanoVelcro Chips for RNA Biomarker Detection (<i>Adv. Healthcare Mater.</i> 3/2018). <i>Advanced Healthcare Materials</i> , 2018, 7, 1870013.	7.6	3
77	Humidity-switch chromism of aniline-pentamer in Nafion. <i>Journal of Polymer Research</i> , 2016, 23, 1.	2.4	1
78	Nanofibers: Poly(3,4-ethylenedioxythiophene) Polymer Composite Bioelectrodes with Designed Chemical and Topographical Cues to Manipulate the Behavior of PC12 Neuronal Cells (<i>Adv. Mater.</i>)	8.7	10
79	Design and fabrication of electrospun mixed-matrix multi-layered membranes containing tri-n-octylphosphine oxide for efficient adsorption of p-cresol. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 627, 127192.	4.7	1