

Jen-Hsien Huang

List of Publications by Year in descending order

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80
papers

3,355
citations

117453

34
h-index

149479

56
g-index

81
all docs

81
docs citations

81
times ranked

5473
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	6.6	208
2	Surfactant-Free Water-Processable Photoconductive All-Carbon Composite. <i>Journal of the American Chemical Society</i> , 2011, 133, 4940-4947.	6.6	200
3	Layer-by-Layer Graphene/TCNQ Stacked Films as Conducting Anodes for Organic Solar Cells. <i>ACS Nano</i> , 2012, 6, 5031-5039.	7.3	199
4	Graphene-based thermoplastic composites and their application for LED thermal management. <i>Carbon</i> , 2016, 102, 66-73.	5.4	157
5	Effective Work Function Modulation of Graphene/Carbon Nanotube Composite Films As Transparent Cathodes for Organic Optoelectronics. <i>ACS Nano</i> , 2011, 5, 6262-6271.	7.3	150
6	A ternary cascade structure enhances the efficiency of polymer solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 2820.	6.7	109
7	Tunable Novel Cyclopentadithiophene-Based Copolymers Containing Various Numbers of Bithiazole and Thienyl Units for Organic Photovoltaic Cell Applications. <i>Macromolecules</i> , 2009, 42, 3681-3693.	2.2	99
8	Electrochemical characterization of the solvent-enhanced conductivity of poly(3,4-ethylenedioxythiophene) and its application in polymer solar cells. <i>Journal of Materials Chemistry</i> , 2009, 19, 3704.	6.7	95
9	Annealing effect of polymer bulk heterojunction solar cells based on polyfluorene and fullerene blend. <i>Organic Electronics</i> , 2009, 10, 27-33.	1.4	91
10	Towards solution processed all-carbon solar cells: a perspective. <i>Energy and Environmental Science</i> , 2012, 5, 7810.	15.6	87
11	Synthesis and applications of low bandgap conjugated polymers containing phenothiazine donor and various benzodiazole acceptors for polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2010, 48, 4823-4834.	2.5	66
12	Three-dimensional carbon nanotube based polymer composites for thermal management. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 90, 678-686.	3.8	65
13	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.	2.0	64
14	The Influence of Charge Trapping on the Electrochromic Performance of Poly(3,4-alkylenedioxythiophene) Derivatives. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 351-359.	4.0	62
15	Nanographite/polyaniline composite films as the counter electrodes for dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2011, 21, 10384.	6.7	62
16	rGO/SWCNT composites as novel electrode materials for electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2013, 43, 173-179.	5.3	61
17	Ternary composite based on homogeneous Ni(OH) ₂ on graphene with Ag nanoparticles as nanopacers for efficient supercapacitor. <i>Chemical Engineering Journal</i> , 2018, 334, 2058-2067.	6.6	61
18	Fabrication of multilayer organic solar cells through a stamping technique. <i>Journal of Materials Chemistry</i> , 2009, 19, 4077.	6.7	59

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19	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.	2.7	56
20	Synthesis and characterization of novel low-bandgap triphenylamine-based conjugated polymers with main-chain donors and pendent acceptors for organic photovoltaics. <i>Journal of Polymer Science Part A</i> , 2010, 48, 5812-5823.	2.5	53
21	Dibenzo[f,h]thieno[3,4-b] quinoxaline-Based Small Molecules for Efficient Bulk-Heterojunction Solar Cells. <i>Organic Letters</i> , 2009, 11, 4898-4901.	2.4	49
22	Solvent-Annealing-Induced Self-Organization of Poly(3-hexylthiophene), a High-Performance Electrochromic Material. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2821-2828.	4.0	49
23	Using a low temperature crystallization process to prepare anatase TiO ₂ buffer layers for air-stable inverted polymer solar cells. <i>Energy and Environmental Science</i> , 2010, 3, 654.	15.6	49
24	Effects of nanomorphological changes on the performance of solar cells with blends of poly[9,9-dioctyl-fluorene-co-bithiophene] and a soluble fullerene. <i>Nanotechnology</i> , 2009, 20, 025202.	1.3	45
25	Fullerene C ₇₀ decorated TiO ₂ nanowires for visible-light-responsive photocatalyst. <i>Applied Surface Science</i> , 2015, 355, 536-546.	3.1	44
26	Modulation of Donor-Acceptor Interface through Thermal Treatment for Efficient Bilayer Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 2764-2768.	1.5	43
27	Efficient bilayer polymer solar cells possessing planar mixed-heterojunction structures. <i>Journal of Materials Chemistry</i> , 2010, 20, 3295.	6.7	43
28	The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	43
29	Balanced carrier transport in organic solar cells employing embedded indium-tin-oxide nanoelectrodes. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	41
30	Monitoring the 3D Nanostructures of Bulk Heterojunction Polymer Solar Cells Using Confocal Lifetime Imaging. <i>Analytical Chemistry</i> , 2010, 82, 1669-1673.	3.2	40
31	Thermally conductive polymeric composites incorporating 3D MWCNT/PEDOT:PSS scaffolds. <i>Composites Part B: Engineering</i> , 2018, 136, 46-54.	5.9	39
32	Wet-milled transition metal oxide nanoparticles as buffer layers for bulk heterojunction solar cells. <i>RSC Advances</i> , 2012, 2, 7487.	1.7	35
33	Enhanced spectral response in polymer bulk heterojunction solar cells by using active materials with complementary spectra. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 22-28.	3.0	34
34	Achieving efficient poly(3,4-ethylenedioxythiophene)-based supercapacitors by controlling the polymerization kinetics. <i>Electrochimica Acta</i> , 2011, 56, 7228-7234.	2.6	34
35	Three-Dimensional Conductive Nanocomposites Based on Multiwalled Carbon Nanotube Networks and PEDOT:PSS as a Flexible Transparent Electrode for Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11668-11676.	4.0	34
36	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.	3.0	33

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37	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.	6.5	30
38	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.	1.5	29
39	Highly Stable, Solution-Processable Phenothiazine Derivative as Hole Collection Material for Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7680-7685.	4.0	28
40	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.	1.7	28
41	GFP Plasmid and Chemoreagent Conjugated with Graphene Quantum Dots as a Novel Gene Delivery Platform for Colon Cancer Inhibition In Vitro and In Vivo. <i>ACS Applied Bio Materials</i> , 2020, 3, 5948-5956.	2.3	27
42	Organic solar cells featuring nanobowl structures. <i>Energy and Environmental Science</i> , 2013, 6, 1192.	15.6	26
43	Facile Transfer Method for Fabricating Light-Harvesting Systems for Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 11864-11870.	1.5	25
44	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.	1.5	24
45	Controlled Growth of Nanofiber Network Hole Collection Layers with Pore Structure for Polymer ⁺ Fullerene Solar Cells. <i>Journal of Physical Chemistry C</i> , 2008, 112, 19125-19130.	1.5	23
46	Molecular-weight-dependent nanoscale morphology in silole-containing cyclopentadithiophene polymer and fullerene derivative blends. <i>Organic Electronics</i> , 2011, 12, 1755-1762.	1.4	23
47	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.	2.3	23
48	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.	3.1	23
49	Three-Dimensional Nanoscale Imaging of Polymer Bulk-Heterojunction by Scanning Electrical Potential Microscopy and C ₆₀ Cluster Ion Slicing. <i>Analytical Chemistry</i> , 2009, 81, 8936-8941.	3.2	21
50	A Strategic Buffer Layer of Polythiophene Enhances the Efficiency of Bulk Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1281-1285.	4.0	20
51	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.	2.7	20
52	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.	2.8	20
53	Preparation and characterization of high refractive index silicone/TiO ₂ nanocomposites for LED encapsulants. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 46, 168-175.	2.7	19
54	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.	3.1	19

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55	Spray-dried nanoporous NiO/PANI:PSS composite microspheres for high-performance asymmetric supercapacitors. <i>Composites Part B: Engineering</i> , 2019, 175, 107066.	5.9	18
56	Refluxed Esterification of Fullerene-Conjugated P25 TiO ₂ Promotes Free Radical Scavenging Capacity and Facilitates Antiaging Potentials in Human Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 311-319.	4.0	18
57	The effect of wetting property on electrochromic properties of functionalized poly(3,4-ethylenedioxythiophene) films. <i>Dyes and Pigments</i> , 2017, 145, 95-102.	2.0	17
58	Integration of PEG and PEI with graphene quantum dots to fabricate pH-responsive nanostars for colon cancer suppression in vitro and in vivo. <i>FlatChem</i> , 2022, 31, 100320.	2.8	17
59	Interfacial engineering affects the photocatalytic activity of poly(3-hexylthiophene)-modified TiO ₂ . <i>RSC Advances</i> , 2013, 3, 26438.	1.7	16
60	Efficient bulk heterojunction solar cells based on a low-bandgap polyfluorene copolymers and fullerene derivatives. <i>Organic Electronics</i> , 2009, 10, 1109-1115.	1.4	15
61	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.	3.0	15
62	Intercalating pyrene with polypeptide as a novel self-assembly nano-carrier for colon cancer suppression in vitro and in vivo. <i>Materials Science and Engineering C</i> , 2020, 109, 110593.	3.8	15
63	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.	2.3	14
64	Dual-color electrochromic films incorporating a periodic polymer nanostructure. <i>RSC Advances</i> , 2012, 2, 4746.	1.7	13
65	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.	3.0	13
66	The effect of dual-doping on the electrochemical performance of LiNi _{0.5} Mn _{1.5} O ₄ and its application in full-cell lithium-ion batteries. <i>Ceramics International</i> , 2022, 48, 14778-14788.	2.3	12
67	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.	2.3	11
68	Incorporation of a stable radical 2,2,6,6-tetramethyl-1-piperidinyloxy (TEMPO) in an electrochromic device. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 2102-2107.	3.0	10
69	Synthesis and applications of cyano-ethylene-based polymers containing cyclopentadithiophene and dithienosilole units for photovoltaic cells. <i>Journal of Polymer Science Part A</i> , 2011, 49, 3417-3425.	2.5	10
70	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
71	Influence of molecular weight on silole-containing cyclopentadithiophene polymer and its impact on the electrochromic properties. <i>Solar Energy Materials and Solar Cells</i> , 2012, 98, 300-307.	3.0	9
72	Wet-milled anatase titanium oxide nanoparticles as a buffer layer for air-stable bulk heterojunction solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1017-1024.	4.4	8

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73	The optoelectronic properties and applications of solution-processable titanium oxide nanoparticles. <i>Organic Electronics</i> , 2015, 18, 126-134.	1.4	6
74	Bio-Phenolic Resin Derived Porous Carbon Materials for High-Performance Lithium-Ion Capacitor. <i>Polymers</i> , 2022, 14, 575.	2.0	6
75	Morphology evolution and electrochemical behavior of $NixMn_{1-x}(OH)_2$ mixed hydroxides as high-performance electrode for supercapacitor. <i>Electrochimica Acta</i> , 2022, 403, 139692.	2.6	5
76	Efficient organic optoelectronics with multilayer structures. <i>Journal of Materials Chemistry</i> , 2012, 22, 1364-1369.	6.7	4
77	Ubiquitous carrier harvesting in organic solar cells with embedded indium-tin-oxide nano-electrodes. <i>Solar Energy Materials and Solar Cells</i> , 2013, 118, 102-108.	3.0	3
78	Versatile Functionalization of P25 Conjugated ND Nanocomposites for UV-Mediated Free Radical Scavenging and Facilitates Anti-Inflammation Potential in Human Cells. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 39088-39099.	4.0	3
79	Enhanced carrier collection and light harvesting of polymer solar cells using embedded indium-tin-oxide nano-electrodes. , 2010, , .		0
80	Balanced carrier transport in organic solar cells using implanted indium-tin-oxide nano-columns. , 2011, , .		0