Jen-Hsien Huang

List of Publications by Year in descending order

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80 papers	3,355 citations	117625 34 h-index	149698 56 g-index
81 all docs	81 docs citations	81 times ranked	5473 citing authors

#	Article	IF	Citations
1	Integration of PEG and PEI with graphene quantum dots to fabricate pH-responsive nanostars for colon cancer suppression in vitro and in vivo. FlatChem, 2022, 31, 100320.	5.6	17
2	Bio-Phenolic Resin Derived Porous Carbon Materials for High-Performance Lithium-Ion Capacitor. Polymers, 2022, 14, 575.	4.5	6
3	Morphology evolution and electrochemical behavior of NixMn1-x(OH)2 mixed hydroxides as high-performance electrode for supercapacitor. Electrochimica Acta, 2022, 403, 139692.	5.2	5
4	The effect of dual-doping on the electrochemical performance of LiNi0.5Mn1.5O4 and its application in fullâ€cell lithiumâ€ion batteries. Ceramics International, 2022, 48, 14778-14788.	4.8	12
5	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
6	High-performance Li-Ion capacitor constructed from biomass-derived porous carbon and high-rate Li4Ti5O12. Applied Surface Science, 2021, 543, 148717.	6.1	19
7	Versatile Functionalization of P25 Conjugated ND Nanocomposites for UV-Mediated Free Radical Scavenging and Facilitates Anti-Inflammation Potential in Human Cells. ACS Applied Materials & Interfaces, 2021, 13, 39088-39099.	8.0	3
8	Intercalating pyrene with polypeptide as a novel self-assembly nano-carrier for colon cancer suppression in vitro and in vivo. Materials Science and Engineering C, 2020, 109, 110593.	7.3	15
9	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
10	GFP Plasmid and Chemoreagent Conjugated with Graphene Quantum Dots as a Novel Gene Delivery Platform for Colon Cancer Inhibition In Vitro and In Vivo. ACS Applied Bio Materials, 2020, 3, 5948-5956.	4.6	27
11	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
12	Spray-dried nanoporous NiO/PANI:PSS composite microspheres for high-performance asymmetric supercapacitors. Composites Part B: Engineering, 2019, 175, 107066.	12.0	18
13	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
14	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
15	Refluxed Esterification of Fullerene-Conjugated P25 TiO₂ Promotes Free Radical Scavenging Capacity and Facilitates Antiaging Potentials in Human Cells. ACS Applied Materials & Interfaces, 2019, 11, 311-319.	8.0	18
16	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
17	Thermally conductive polymeric composites incorporating 3D MWCNT/PEDOT:PSS scaffolds. Composites Part B: Engineering, 2018, 136, 46-54.	12.0	39
18	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

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19	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
20	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
21	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
22	The effect of wetting property on electrochromic properties offunctionalized poly(3,4-ethylenedioxythiophene) films. Dyes and Pigments, 2017, 145, 95-102.	3.7	17
23	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
24	Graphene-based thermoplastic composites and their application for LED thermal management. Carbon, 2016, 102, 66-73.	10.3	157
25	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
26	Three-dimensional carbon nanotube based polymer composites for thermal management. Composites Part A: Applied Science and Manufacturing, 2016, 90, 678-686.	7.6	65
27	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
28	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
29	The optoelectronic properties and applications of solution-processable titanium oxide nanoparticles. Organic Electronics, 2015, 18, 126-134.	2.6	6
30	Fullerene C 70 decorated TiO 2 nanowires for visible-light-responsive photocatalyst. Applied Surface Science, 2015, 355, 536-546.	6.1	44
31	Three-Dimensional Conductive Nanocomposites Based on Multiwalled Carbon Nanotube Networks and PEDOT:PSS as a Flexible Transparent Electrode for Optoelectronics. ACS Applied Materials & Interfaces, 2015, 7, 11668-11676.	8.0	34
32	Wetâ€milled anatase titanium oxide nanoparticles as a buffer layer for airâ€stable bulk heterojunction solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 1017-1024.	8.1	8
33	Preparation and characterization of high refractive index silicone/TiO2 nanocomposites for LED encapsulants. Journal of the Taiwan Institute of Chemical Engineers, 2015, 46, 168-175.	5.3	19
34	Highly Stable, Solution-Processable Phenothiazine Derivative as Hole Collection Material for Organic Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 7680-7685.	8.0	28
35	Interfacial engineering affects the photocatalytic activity of poly(3-hexylthiophene)-modified TiO2. RSC Advances, 2013, 3, 26438.	3.6	16
36	The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. Applied Physics Letters, 2013, 103, .	3.3	43

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37	Ubiquitous carrier harvesting in organic solar cells with embedded indiumâ€“tin-oxide nano-electrodes. Solar Energy Materials and Solar Cells, 2013, 118, 102-108.	6.2	3
38	rGO/SWCNT composites as novel electrode materials for electrochemical biosensing. Biosensors and Bioelectronics, 2013, 43, 173-179.	10.1	61
39	Organic solar cells featuring nanobowl structures. Energy and Environmental Science, 2013, 6, 1192.	30.8	26
40	Layer-by-Layer Graphene/TCNQ Stacked Films as Conducting Anodes for Organic Solar Cells. ACS Nano, 2012, 6, 5031-5039.	14.6	199
41	Efficient organic optoelectronics with multilayer structures. Journal of Materials Chemistry, 2012, 22, 1364-1369.	6.7	4
42	Wet-milled transition metal oxide nanoparticles as buffer layers for bulk heterojunction solar cells. RSC Advances, 2012, 2, 7487.	3.6	35
43	Dual-color electrochromic films incorporating a periodic polymer nanostructure. RSC Advances, 2012, 2, 4746.	3.6	13
44	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
45	Towards solution processed all-carbon solar cells: a perspective. Energy and Environmental Science, 2012, 5, 7810.	30.8	87
46	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
47	Influence of molecular weight on silole-containing cyclopentadithiophene polymer and its impact on the electrochromic properties. Solar Energy Materials and Solar Cells, 2012, 98, 300-307.	6.2	9
48	Facile Transfer Method for Fabricating Light-Harvesting Systems for Polymer Solar Cells. Journal of Physical Chemistry C, 2011, 115, 11864-11870.	3.1	25
49	Balanced carrier transport in organic solar cells using implanted indium-tin-oxide nano-columns. , 2011, , .		0
50	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
51	Nanographite/polyaniline composite films as the counter electrodes for dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 10384.	6.7	62
52	Surfactant-Free Water-Processable Photoconductive All-Carbon Composite. Journal of the American Chemical Society, 2011, 133, 4940-4947.	13.7	200
53	Molecular-weight-dependent nanoscale morphology in silole-containing cyclopentadithiophene polymer and fullerene derivative blends. Organic Electronics, 2011, 12, 1755-1762.	2.6	23
54	Effective Work Function Modulation of Graphene/Carbon Nanotube Composite Films As Transparent Cathodes for Organic Optoelectronics. ACS Nano, 2011, 5, 6262-6271.	14.6	150

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55	Synthesis and applications of cyanoâ€vinyleneâ€based polymers containing cyclopentadithiophene and dithienosilole units for photovoltaic cells. Journal of Polymer Science Part A, 2011, 49, 3417-3425.	2.3	10
56	Achieving efficient poly(3,4-ethylenedioxythiophene)-based supercapacitors by controlling the polymerization kinetics. Electrochimica Acta, 2011, 56, 7228-7234.	5.2	34
57	Balanced carrier transport in organic solar cells employing embedded indium-tin-oxide nanoelectrodes. Applied Physics Letters, 2011, 98, .	3.3	41
58	Modulation of Donorâ^'Acceptor Interface through Thermal Treatment for Efficient Bilayer Organic Solar Cells. Journal of Physical Chemistry C, 2010, 114, 2764-2768.	3.1	43
59	Enhanced spectral response in polymer bulk heterojunction solar cells by using active materials with complementary spectra. Solar Energy Materials and Solar Cells, 2010, 94, 22-28.	6.2	34
60	Synthesis and applications of lowâ€bandgap conjugated polymers containing phenothiazine donor and various benzodiazole acceptors for polymer solar cells. Journal of Polymer Science Part A, 2010, 48, 4823-4834.	2.3	66
61	Synthesis and characterization of novel lowâ€bandgap triphenylamineâ€based conjugated polymers with mainâ€chain donors and pendent acceptors for organic photovoltaics. Journal of Polymer Science Part A, 2010, 48, 5812-5823.	2.3	53
62	Enhanced carrier collection and light harvesting of polymer solar cells using embedded indium-tin-oxide nano-electrods. , 2010, , .		0
63	Using a low temperature crystallization process to prepare anatase TiO2 buffer layers for air-stable inverted polymer solar cells. Energy and Environmental Science, 2010, 3, 654.	30.8	49
64	A Strategic Buffer Layer of Polythiophene Enhances the Efficiency of Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2010, 2, 1281-1285.	8.0	20
65	The Influence of Charge Trapping on the Electrochromic Performance of Poly(3,4-alkylenedioxythiophene) Derivatives. ACS Applied Materials & Interfaces, 2010, 2, 351-359.	8.0	62
66	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
67	A ternary cascade structure enhances the efficiency of polymer solar cells. Journal of Materials Chemistry, 2010, 20, 2820.	6.7	109
68	Monitoring the 3D Nanostructures of Bulk Heterojunction Polymer Solar Cells Using Confocal Lifetime Imaging. Analytical Chemistry, 2010, 82, 1669-1673.	6.5	40
69	Efficient bilayer polymer solar cells possessing planar mixed-heterojunction structures. Journal of Materials Chemistry, 2010, 20, 3295.	6.7	43
70	Effects of nanomorphological changes on the performance of solar cells with blends of poly[9,9â€²-dioctyl-fluorene-co-bithiophene] and a soluble fullerene. Nanotechnology, 2009, 20, 025202.	2.6	45
71	Incorporation of a stable radical 2,2,6,6-tetramethyl-1-piperidinyloxy (TEMPO) in an electrochromic device. Solar Energy Materials and Solar Cells, 2009, 93, 2102-2107.	6.2	10
72	Annealing effect of polymer bulk heterojunction solar cells based on polyfluorene and fullerene blend. Organic Electronics, 2009, 10, 27-33.	2.6	91

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73	Efficient bulk heterjunction solar cells based on a low-bandgap polyfluorene copolymers and fullerene derivatives. Organic Electronics, 2009, 10, 1109-1115.	2.6	15
74	Tunable Novel Cyclopentadithiophene-Based Copolymers Containing Various Numbers of Bithiazole and Thienyl Units for Organic Photovoltaic Cell Applications. Macromolecules, 2009, 42, 3681-3693.	4.8	99
75	Dibenzo[f,h]thieno[3,4-b] quinoxaline-Based Small Molecules for Efficient Bulk-Heterojunction Solar Cells. Organic Letters, 2009, 11, 4898-4901.	4.6	49
76	Three-Dimensional Nanoscale Imaging of Polymer Bulk-Heterojunction by Scanning Electrical Potential Microscopy and C₆₀⁺ Cluster Ion Slicing. Analytical Chemistry, 2009, 81, 8936-8941.	6.5	21
77	Electrochemical characterization of the solvent-enhanced conductivity of poly(3,4-ethylenedioxythiophene) and its application in polymer solar cells. Journal of Materials Chemistry, 2009, 19, 3704.	6.7	95
78	Fabrication of multilayer organic solar cells through a stamping technique. Journal of Materials Chemistry, 2009, 19, 4077.	6.7	59
79	Solvent-Annealing-Induced Self-Organization of Poly(3-hexylthiophene), a High-Performance Electrochromic Material. ACS Applied Materials & Interfaces, 2009, 1, 2821-2828.	8.0	49
80	Controlled Growth of Nanofiber Network Hole Collection Layers with Pore Structure for Polymerâ"Fullerene Solar Cells. Journal of Physical Chemistry C, 2008, 112, 19125-19130.	3.1	23