

Jen-Hsien Huang

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | Bio-Phenolic Resin Derived Porous Carbon Materials for High-Performance Lithium-Ion Capacitor. <i>Polymers</i> , 2022, 14, 575. | 2.0 | 6 |
| 3 | Morphology evolution and electrochemical behavior of $Ni_xMn_{1-x}(OH)_2$ mixed hydroxides as high-performance electrode for supercapacitor. <i>Electrochimica Acta</i> , 2022, 403, 139692. | 2.6 | 5 |
| 4 | 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 |
| 5 | 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 <i>E. coli</i> . <i>Journal of Hazardous Materials</i> , 2021, 402, 123457. | 6.5 | 30 |
| 6 | High-performance Li-Ion capacitor constructed from biomass-derived porous carbon and high-rate $Li_4Ti_5O_{12}$. <i>Applied Surface Science</i> , 2021, 543, 148717. | 3.1 | 19 |
| 7 | 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 |
| 8 | 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 |
| 9 | MWCNT-embedded $Li_4Ti_5O_{12}$ 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 |
| 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. <i>ACS Applied Bio Materials</i> , 2020, 3, 5948-5956. | 2.3 | 27 |
| 11 | PEDOT-modified laser-scribed graphene films as binder-free and metallic current collector-free electrodes for large-sized supercapacitors. <i>Applied Surface Science</i> , 2020, 518, 146193. | 3.1 | 23 |
| 12 | 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 |
| 13 | Conductive PProDOT-Me ₂ capped $Li_4Ti_5O_{12}$ 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | Spray-drying synthesis of $Li_4Ti_5O_{12}$ 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 |
| 17 | Thermally conductive polymeric composites incorporating 3D MWCNT/PEDOT:PSS scaffolds. <i>Composites Part B: Engineering</i> , 2018, 136, 46-54. | 5.9 | 39 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | Graphene-based thermoplastic composites and their application for LED thermal management. <i>Carbon</i> , 2016, 102, 66-73. | 5.4 | 157 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | The optoelectronic properties and applications of solution-processable titanium oxide nanoparticles. <i>Organic Electronics</i> , 2015, 18, 126-134. | 1.4 | 6 |
| 30 | Fullerene C ₇₀ decorated TiO ₂ nanowires for visible-light-responsive photocatalyst. <i>Applied Surface Science</i> , 2015, 355, 536-546. | 3.1 | 44 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | Interfacial engineering affects the photocatalytic activity of poly(3-hexylthiophene)-modified TiO ₂ . <i>RSC Advances</i> , 2013, 3, 26438. | 1.7 | 16 |
| 36 | The investigation of donor-acceptor compatibility in bulk-heterojunction polymer systems. <i>Applied Physics Letters</i> , 2013, 103, . | 1.5 | 43 |

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|----|---|------|-----------|
| 37 | 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 |
| 38 | rGO/SWCNT composites as novel electrode materials for electrochemical biosensing. <i>Biosensors and Bioelectronics</i> , 2013, 43, 173-179. | 5.3 | 61 |
| 39 | Organic solar cells featuring nanobowl structures. <i>Energy and Environmental Science</i> , 2013, 6, 1192. | 15.6 | 26 |
| 40 | 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 |
| 41 | Efficient organic optoelectronics with multilayer structures. <i>Journal of Materials Chemistry</i> , 2012, 22, 1364-1369. | 6.7 | 4 |
| 42 | Wet-milled transition metal oxide nanoparticles as buffer layers for bulk heterojunction solar cells. <i>RSC Advances</i> , 2012, 2, 7487. | 1.7 | 35 |
| 43 | Dual-color electrochromic films incorporating a periodic polymer nanostructure. <i>RSC Advances</i> , 2012, 2, 4746. | 1.7 | 13 |
| 44 | 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 |
| 45 | Towards solution processed all-carbon solar cells: a perspective. <i>Energy and Environmental Science</i> , 2012, 5, 7810. | 15.6 | 87 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 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. <i>Journal of Physical Chemistry C</i> , 2011, 115, 2398-2405. | 1.5 | 24 |
| 51 | 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 |
| 52 | Surfactant-Free Water-Processable Photoconductive All-Carbon Composite. <i>Journal of the American Chemical Society</i> , 2011, 133, 4940-4947. | 6.6 | 200 |
| 53 | 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 |
| 54 | 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 |

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|----|--|------|-----------|
| 55 | Synthesis and applications of cyano- α -vinylene-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 |
| 56 | Achieving efficient poly(3,4-ethylenedioxythiophene)-based supercapacitors by controlling the polymerization kinetics. <i>Electrochimica Acta</i> , 2011, 56, 7228-7234. | 2.6 | 34 |
| 57 | Balanced carrier transport in organic solar cells employing embedded indium-tin-oxide nanoelectrodes. <i>Applied Physics Letters</i> , 2011, 98, . | 1.5 | 41 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | 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 |
| 62 | Enhanced carrier collection and light harvesting of polymer solar cells using embedded indium-tin-oxide nano-electrodes. , 2010, , . | | 0 |
| 63 | 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 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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 |
| 67 | A ternary cascade structure enhances the efficiency of polymer solar cells. <i>Journal of Materials Chemistry</i> , 2010, 20, 2820. | 6.7 | 109 |
| 68 | 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 |
| 69 | Efficient bilayer polymer solar cells possessing planar mixed-heterojunction structures. <i>Journal of Materials Chemistry</i> , 2010, 20, 3295. | 6.7 | 43 |
| 70 | 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 |
| 71 | 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 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | 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 |
| 74 | 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 |
| 75 | 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 |
| 76 | Three-Dimensional Nanoscale Imaging of Polymer Bulk-Heterojunction by Scanning Electrical Potential Microscopy and Cluster Ion Slicing. <i>Analytical Chemistry</i> , 2009, 81, 8936-8941. | 3.2 | 21 |
| 77 | 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 |
| 78 | Fabrication of multilayer organic solar cells through a stamping technique. <i>Journal of Materials Chemistry</i> , 2009, 19, 4077. | 6.7 | 59 |
| 79 | 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 |
| 80 | 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 |