# Shih-Hung Liu

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3893777/publications.pdf

Version: 2024-02-01

| 145 | 5,107 | 87723 | 102304 |
|---|---|---|---|
| papers | citations | 38 h-index | 66 g-index |

| 147 | 147 | 147 | 5445 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Near-infrared organic light-emitting diodes with very high external quantum efficiency and radiance. Nature Photonics, 2017, 11, 63-68. | 15.6 | 494 |
| 2 | Bisâ€Tridentate Ir(III) Complexes with Nearly Unitary RGB Phosphorescence and Organic Lightâ€Emitting Diodes with External Quantum Efficiency Exceeding 31%. Advanced Materials, 2016, 28, 2795-2800. | 11.1 | 247 |
| 3 | Overcoming the energy gap law in near-infrared OLEDs by excitonâ€“vibration decoupling. Nature Photonics, 2020, 14, 570-577. | 15.6 | 237 |
| 4 | Balance the Carrier Mobility To Achieve High Performance Exciplex OLED Using a Triazine-Based Acceptor. ACS Applied Materials & Interfaces, 2016, 8, 4811-4818. | 4.0 | 173 |
| 5 | Pyridyl Pyrrolide Boron Complexes: The Facile Generation of Thermally Activated Delayed Fluorescence and Preparation of Organic Lightâ€Emitting Diodes. Angewandte Chemie - International Edition, 2016, 55, 3017-3021. | 7.2 | 166 |
| 6 | Donorâ€“acceptor dyes with fluorine substituted phenylene spacer for dye-sensitized solar cells. Journal of Materials Chemistry, 2011, 21, 1937-1945. | 6.7 | 129 |
| 7 | High-efficiency blue organic light-emitting diodes using a 3,5-di(9H-carbazol-9-yl)tetraphenylsilane host via a solution-process. Journal of Materials Chemistry, 2010, 20, 8411. | 6.7 | 122 |
| 8 | Probe exciplex structure of highly efficient thermally activated delayed fluorescence organic light emitting diodes. Nature Communications, 2018, 9, 3111. | 5.8 | 112 |
| 9 | Insight into the mechanism and outcoupling enhancement of excimer-associated white light generation. Chemical Science, 2016, 7, 3556-3563. | 3.7 | 108 |
| 10 | Device characteristics and material developments of indoor photovoltaic devices. Materials Science and Engineering Reports, 2020, 139, 100517. | 14.8 | 108 |
| 11 | Pt(II) Metal Complexes Tailored with a Newly Designed Spiro-Arranged Tetradentate Ligand; Harnessing of Charge-Transfer Phosphorescence and Fabrication of Sky Blue and White OLEDs. Inorganic Chemistry, 2015, 54, 4029-4038. | 1.9 | 87 |
| 12 | Transparent and Flexible Inorganic Perovskite Photonic Artificial Synapses with Dualâ€Mode Operation. Advanced Functional Materials, 2021, 31, 2008259. | 7.8 | 83 |
| 13 | Role of Antisite Disorder, Rare-Earth Size, and Superexchange Angle on Band Gap, Curie Temperature, and Magnetization of R<sub>2</sub>NiMnO<sub>6</sub> Double Perovskites. ACS Applied Electronic Materials, 2019, 1, 141-153. | 2.0 | 82 |
| 14 | Theoretical Study of N749 Dyes Anchoring on the (TiO<sub>2</sub>)<sub>28</sub> Surface in DSSCs and Their Electronic Absorption Properties. Journal of Physical Chemistry C, 2012, 116, 16338-16345. | 1.5 | 76 |
| 15 | Functional Pyrimidineâ€Based Thermally Activated Delay Fluorescence Emitters: Photophysics, Mechanochromism, and Fabrication of Organic Lightâ€Emitting Diodes. Chemistry - A European Journal, 2017, 23, 2858-2866. | 1.7 | 75 |
| 16 | Bisâ€Tridentate Iridium(III) Phosphors with Very High Photostability and Fabrication of Blueâ€Emitting OLEDs. Advanced Science, 2018, 5, 1800846. | 5.6 | 75 |
| 17 | Achieving high-efficiency non-doped blue organic light-emitting diodes: charge-balance control of bipolar blue fluorescent materials with reduced hole-mobility. Journal of Materials Chemistry, 2009, 19, 5561. | 6.7 | 68 |
| 18 | Organic polymeric and small molecular electron acceptors for organic solar cells. Materials Science and Engineering Reports, 2018, 124, 1-57. | 14.8 | 67 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Exciplex-Forming Cohost for High Efficiency and High Stability Phosphorescent Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 2151-2157. | 4.0 | 66 |
| 20 | Efficient thermally activated delayed fluorescence of functional phenylpyridinato boron complexes and high performance organic light-emitting diodes. Journal of Materials Chemistry C, 2017, 5, 1452-1462. | 2.7 | 65 |
| 21 | Harnessing the open-circuit voltage via a new series of Ru(ii) sensitizers bearing (iso-)quinolinyl pyrazolate ancillaries. Energy and Environmental Science, 2013, 6, 859. | 15.6 | 64 |
| 22 | Transparent Organic Upconversion Devices for Nearâ€Infrared Sensing. Advanced Materials, 2015, 27, 1217-1222. | 11.1 | 64 |
| 23 | A silole copolymer containing a ladder-type heptacylic arene and naphthobisoxadiazole moieties for highly efficient polymer solar cells. Energy and Environmental Science, 2015, 8, 552-557. | 15.6 | 61 |
| 24 | Highly efficient red electrophosphorescent device incorporating a bipolar triphenylamine/bisphenylsulfonyl-substituted fluorene hybrid as the host. Journal of Materials Chemistry, 2009, 19, 8002. | 6.7 | 60 |
| 25 | Functional Pyrimidinyl Pyrazolate Pt(II) Complexes: Role of Nitrogen Atom in Tuning the Solidâ€State Stacking and Photophysics. Advanced Functional Materials, 2019, 29, 1900923. | 7.8 | 56 |
| 26 | Heteroleptic Ir(<scp>iii</scp>) phosphors with bis-tridentate chelating architecture for high efficiency OLEDs. Journal of Materials Chemistry C, 2015, 3, 3460-3471. | 2.7 | 55 |
| 27 | Versatile Exciplex-Forming Co-Host for Improving Efficiency and Lifetime of Fluorescent and Phosphorescent Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2018, 10, 24090-24098. | 4.0 | 55 |
| 28 | First N-Borylated Emitters Displaying Highly Efficient Thermally Activated Delayed Fluorescence and High-Performance OLEDs. ACS Applied Materials & Interfaces, 2017, 9, 27090-27101. | 4.0 | 54 |
| 29 | Ru(ii) sensitizers with a tridentate heterocyclic cyclometalate for dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 7549. | 15.6 | 53 |
| 30 | Harnessing Fluorescence versus Phosphorescence Branching Ratio in (Phenyl)<sub>n</sub>-Bridged (n = 0â€“5) Bimetallic Au(I) Complexes. Journal of Physical Chemistry C, 2013, 117, 9623-9632. | 1.5 | 53 |
| 31 | Panchromatic Ru(<scp>ii</scp>) sensitizers bearing single thiocyanate for high efficiency dye sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 17618-17627. | 5.2 | 53 |
| 32 | Unprecedented Homoleptic Bisâ€Tridentate Iridium(III) Phosphors: Facile, Scaledâ€Up Production, and Superior Chemical Stability. Advanced Functional Materials, 2017, 27, 1702856. | 7.8 | 53 |
| 33 | Room temperature blue phosphorescence: a combined experimental and theoretical study on the bis-tridentate Ir(<scp>iii</scp>) metal complexes. Dalton Transactions, 2016, 45, 15364-15373. | 1.6 | 51 |
| 34 | New Dâ€“Aâ€“A-Configured Small-Molecule Donors for High-Efficiency Vacuum-Processed Organic Photovoltaics under Ambient Light. ACS Applied Materials & Interfaces, 2019, 11, 8337-8349. | 4.0 | 50 |
| 35 | Revealing the Cooperative Relationship between Spin, Energy, and Polarization Parameters toward Developing Highâ€Efficiency Exciplex Lightâ€Emitting Diodes. Advanced Materials, 2019, 31, e1904114. | 11.1 | 49 |
| 36 | Isomeric spiro-[acridine-9,9â€²-fluorene]-2,6-dipyridylpyrimidine based TADF emitters: insights into photophysical behaviors and OLED performances. Journal of Materials Chemistry C, 2018, 6, 10088-10100. | 2.7 | 46 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | High-Efficiency Red and Near-Infrared Organic Light-Emitting Diodes Enabled by Pure Organic Fluorescent Emitters and an Exciplex-Forming Cohost. ACS Applied Materials & Interfaces, 2019, 11, 23417-23427. | 4.0 | 45 |
| 38 | Near-Infrared Emission Induced by Shortened Ptâ€“Pt Contact: Diplatinum(II) Complexes with Pyridyl Pyrimidinato Cyclometalates. Inorganic Chemistry, 2019, 58, 13892-13901. | 1.9 | 40 |
| 39 | Electrical and optical simulation of organic light-emitting devices with fluorescent dopant in the emitting layer. Journal of Applied Physics, 2007, 101, 114501. | 1.1 | 39 |
| 40 | Open-circuit voltage and efficiency improvement of subphthalocyanine-based organic photovoltaic device through deposition rate control. Solar Energy Materials and Solar Cells, 2012, 103, 69-75. | 3.0 | 39 |
| 41 | ITO-free, efficient, and inverted phosphorescent organic light-emitting diodes using a WO 3 /Ag/WO 3 multilayer electrode. Organic Electronics, 2016, 31, 240-246. | 1.4 | 38 |
| 42 | 4-Hydroxy-8-methyl-1,5-naphthyridine aluminium chelate: a morphologically stable and efficient exciton-blocking material for organic photovoltaics with prolonged lifetime. Journal of Materials Chemistry, 2010, 20, 7800. | 6.7 | 37 |
| 43 | Dyeâ€Sensitized Solar Cells Based on Functionally Separated Dâ€Ïâ€A Dyes with 2â€Cyanopyridine as an Electronâ€Accepting and Anchoring Group. Asian Journal of Organic Chemistry, 2014, 3, 153-160. | 1.3 | 35 |
| 44 | Os(<scp>ii</scp>) metal phosphors bearing tridentate 2,6-di(pyrazol-3-yl)pyridine chelate: synthetic design, characterization and application in OLED fabrication. Journal of Materials Chemistry C, 2014, 2, 6269. | 2.7 | 34 |
| 45 | Luminescent Diiridium Complexes with Bridging Pyrazolates: Characterization and Fabrication of OLEDs Using Vacuum Thermal Deposition. Advanced Optical Materials, 2018, 6, 1800083. | 3.6 | 34 |
| 46 | Vacuumâ€Processed Small Molecule Organic Photodetectors with Low Dark Current Density and Strong Response to Nearâ€Infrared Wavelength. Advanced Optical Materials, 2020, 8, 2000519. | 3.6 | 34 |
| 47 | A Comparative Study via Photophysical and Electrical Characterizations on Interfacial and Bulk Exciplex-Forming Systems for Efficient Organic Light-Emitting Diodes. ACS Applied Electronic Materials, 2020, 2, 1011-1019. | 2.0 | 34 |
| 48 | Chloroboron subphthalocyanine/C60 planar heterojunction organic solar cell with N,N-dicarbazolyl-3,5-benzene blocking layer. Solar Energy Materials and Solar Cells, 2014, 122, 264-270. | 3.0 | 33 |
| 49 | Pyridyl Pyrrolide Boron Complexes: The Facile Generation of Thermally Activated Delayed Fluorescence and Preparation of Organic Lightâ€Emitting Diodes. Angewandte Chemie, 2016, 128, 3069-3073. | 1.6 | 32 |
| 50 | Vacuum-deposited MoO3/Ag/WO3 multilayered electrode for highly efficient transparent and inverted organic light-emitting diodes. Organic Electronics, 2018, 59, 266-271. | 1.4 | 32 |
| 51 | Roles of Ancillary Chelates and Overall Charges of Bis-tridentate Ir(III) Phosphors for OLED Applications. ACS Applied Materials & Interfaces, 2020, 12, 1084-1093. | 4.0 | 31 |
| 52 | Solution processed Li<sub>5</sub>AlO<sub>4</sub> dielectric for low voltage transistor fabrication and its application in metal oxide/quantum dot heterojunction phototransistors. Journal of Materials Chemistry C, 2018, 6, 790-798. | 2.7 | 30 |
| 53 | Highly Twisted Dianchoring Dâ^Ï€â€“A Sensitizers for Efficient Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2016, 8, 27832-27842. | 4.0 | 29 |
| 54 | Ultra-Low Voltage Metal Oxide Thin Film Transistor by Low-Temperature Annealed Solution Processed LiAlO2 Gate Dielectric. Electronic Materials Letters, 2020, 16, 22-34. | 1.0 | 29 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Sky Blue-Emitting Iridium(III) Complexes Bearing Nonplanar Tetradentate Chromophore and Bidentate Ancillary. Inorganic Chemistry, 2017, 56, 10054-10060. | 1.9 | 28 |
| 56 | Flexible quantum dot lightâ€emitting devices for targeted photomedical applications. Journal of the Society for Information Display, 2018, 26, 296-303. | 0.8 | 28 |
| 57 | Combinational Approach To Realize Highly Efficient Light-Emitting Electrochemical Cells. ACS Applied Materials & Interfaces, 2020, 12, 14254-14264. | 4.0 | 28 |
| 58 | Thiocyanateâ€Free Ru(II) Sensitizers with a 4,4â€²â€Dicarboxyvinylâ€2,2â€²â€bipyridine Anchor for Dyeâ€Sensitized Solar Cells. Advanced Functional Materials, 2013, 23, 2285-2294. | 7.8 | 27 |
| 59 | Ru(ii) sensitizers bearing dianionic biazolate ancillaries: ligand synergy for high performance dye sensitized solar cells. Journal of Materials Chemistry A, 2013, 1, 7681. | 5.2 | 26 |
| 60 | Aggregation Control, Surface Passivation, and Optimization of Device Structure toward Nearâ€Infrared Perovskite Quantumâ€Dot Lightâ€Emitting Diodes with an EQE up to 15.4%. Advanced Materials, 2022, 34, e2109785. | 11.1 | 26 |
| 61 | Structural tuning of ancillary chelate in tri-carboxyterpyridine Ru(ii) sensitizers for dye sensitized solar cells. Journal of Materials Chemistry A, 2014, 2, 5418-5426. | 5.2 | 25 |
| 62 | Reduction of dark current density in organic ultraviolet photodetector by utilizing an electron blocking layer of TAPC doped with MoO3. Organic Electronics, 2019, 65, 150-155. | 1.4 | 25 |
| 63 | Carbazole/Benzimidazole-Based Bipolar Molecules as the Hosts for Phosphorescent and Thermally Activated Delayed Fluorescence Emitters for Efficient OLEDs. ACS Omega, 2020, 5, 10553-10561. | 1.6 | 25 |
| 64 | A micro-cavity forming electrode with high thermal stability for semi-transparent colorful organic photovoltaics exceeding 13% power conversion efficiency. Nano Energy, 2021, 80, 105565. | 8.2 | 25 |
| 65 | Cathodic-controlled and near-infrared organic upconverter for local blood vessels mapping. Scientific Reports, 2016, 6, 32324. | 1.6 | 24 |
| 66 | Highly efficient ITO-free organic light-emitting diodes employing a roughened ultra-thin silver electrode. Organic Electronics, 2017, 42, 52-58. | 1.4 | 22 |
| 67 | Versatile Pt(II) Pyrazolate Complexes: Emission Tuning via Interplay of Chelate Designs and Stacking Assemblies. ACS Applied Materials & Interfaces, 2020, 12, 16679-16690. | 4.0 | 22 |
| 68 | Iridium(III) Complexes Bearing Tridentate Chromophoric Chelate: Phosphorescence Fine-Tuned by Phosphine and Hydride Ancillary. Inorganic Chemistry, 2018, 57, 8287-8298. | 1.9 | 21 |
| 69 | Enhancing extracted electroluminescence from light-emitting electrochemical cells by employing high-refractive-index substrates. Organic Electronics, 2017, 51, 149-155. | 1.4 | 20 |
| 70 | Blue-emitting bis-tridentate Ir(<scp>iii</scp>) phosphors: OLED performances vs. substituent effects. Journal of Materials Chemistry C, 2018, 6, 10486-10496. | 2.7 | 20 |
| 71 | Highly efficient blue and white light-emitting electrochemical cells employing substrates containing embedded diffusive layers. Organic Electronics, 2020, 77, 105515. | 1.4 | 20 |
| 72 | Improvement of energy storage properties with the reduction of depolarization temperature in lead-free (1â€‰â€“â€‰x)Na0.5Bi0.5TiO3-xAgTaO3 ceramics. Journal of Applied Physics, 2019, 125,. | 1.1 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Perovskite Photosensors Integrated with Silver Resonantâ€Cavity Color Filters Display Color Perception Beyond That of the Human Eye. Advanced Functional Materials, 2020, 30, 2002503. | 7.8 | 19 |
| 74 | Efficient Hybrid White Organic Light-Emitting Devices with a Reduced Efficiency Roll-off Based on a Blue Fluorescent Emitter of Which Charge Carriers Are Ambipolar and Electric-Field Independent. Journal of Physical Chemistry C, 2011, 115, 2428-2432. | 1.5 | 18 |
| 75 | In Situ Measurement of Energy Level Shifts and Recombination Rates in Subphthalocyanine/C<sub>60</sub> Bilayer Solar Cells. Journal of Physical Chemistry C, 2014, 118, 22858-22864. | 1.5 | 18 |
| 76 | Inducing the trap-site in an emitting-layer for an organic upconversion device exhibiting high current-gain ratio and low turn-on voltage. Organic Electronics, 2016, 30, 275-280. | 1.4 | 18 |
| 77 | Transparent organic upconversion device targeting high- grade infrared visual image. Nano Energy, 2021, 86, 106043. | 8.2 | 18 |
| 78 | Comprehensive study of medium-bandgap conjugated polymer merging a fluorinated quinoxaline with branched side chains for highly efficient and air-stable polymer solar cells. Journal of Materials Chemistry A, 2014, 2, 20203-20212. | 5.2 | 17 |
| 79 | The effect of charge transfer state on the open-circuit voltage of small-molecular organic photovoltaic devices: A comparison between the planar and bulk heterojunctions using electroluminescence characterization. Organic Electronics, 2015, 16, 1-8. | 1.4 | 17 |
| 80 | Unveiling the underlying mechanism of record-high efficiency organic near-infrared photodetector harnessing a single-component photoactive layer. Materials Horizons, 2020, 7, 1171-1179. | 6.4 | 17 |
| 81 | Single-Layer Blue Electrophosphorescent Organic Light-Emitting Diodes Based on Small-Molecule Mixed Hosts: Comparison between the Solution and Vacuum Fabrication Processes. Japanese Journal of Applied Physics, 2013, 52, 012101. | 0.8 | 15 |
| 82 | Influence of Singlet and Charge-Transfer Excitons on the Open-Circuit Voltage of Rubrene/Fullerene Organic Photovoltaic Device. ACS Applied Materials & Interfaces, 2016, 8, 28757-28762. | 4.0 | 15 |
| 83 | Highly efficient exciplex organic light-emitting devices employing a sputtered indium-tin oxide electrode with nano-pinhole morphology. Journal of Materials Chemistry C, 2017, 5, 12050-12056. | 2.7 | 15 |
| 84 | Influence of Cation Order and Valence States on Magnetic Ordering in La<sub>2</sub>Ni<sub>1â^'x</sub>Mn<sub>1+x</sub>O<sub>6</sub>. Physica Status Solidi (B): Basic Research, 2019, 256, 1900019. | 0.7 | 15 |
| 85 | Effect of ionic size compensation by Ag+ incorporation in homogeneous Fe-substituted ZnO: studies on structural, mechanical, optical, and magnetic properties. RSC Advances, 2018, 8, 24355-24369. | 1.7 | 14 |
| 86 | Counterion Migration Driven by Light-Induced Intramolecular Charge Transfer. Jacs Au, 2021, 1, 282-293. | 3.6 | 14 |
| 87 | The effect of ZnO preparation on the performance of inverted polymer solar cells under one sun and indoor light. Journal of Materials Chemistry C, 2021, 9, 1196-1204. | 2.7 | 13 |
| 88 | The synthesis, structure, and properties of 5,6,11,12-tetraarylindeno[1,2-b]fluorenes and their applications as donors for organic photovoltaic devices. Organic Chemistry Frontiers, 2017, 4, 675-681. | 2.3 | 12 |
| 89 | New Exciplexâ€Forming Coâ€Host System and Thienothiadazoleâ€based Fluorescent Emitter for Highâ€Efficiency and Promising Stability Nearâ€Infrared OLED. Advanced Optical Materials, 2022, 10, . | 3.6 | 12 |
| 90 | Microwave-Polyol Synthesis of Sub-10-nm PbS Nanocrystals for Metal Oxide/Nanocrystal Heterojunction Photodetectors. ACS Applied Nano Materials, 2018, 1, 6063-6072. | 2.4 | 11 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Vacuumâ€Deposited Transparent Organic Photovoltaics for Efficiently Harvesting Selective Ultraviolet and Nearâ€Infrared Solar Energy. Solar Rrl, 2021, 5, 2000564. | 3.1 | 11 |
| 92 | Organic Lead Halide Nanocrystals Providing an Ultra-Wide Color Gamut with Almost-Unity Photoluminescence Quantum Yield. ACS Applied Materials & Interfaces, 2021, 13, 25202-25213. | 4.0 | 11 |
| 93 | Luminescence of Pyrazinyl Pyrazolate Pt(II) Complexes Fine-Tuned by the Solid-State Stacking Interaction. Energy & Fuels, 2021, 35, 19112-19122. | 2.5 | 11 |
| 94 | A New Dioxasilepineâ€“Aryldiamine Hybrid Electron-Blocking Material for Wide Linear Dynamic Range and Fast Response Organic Photodetector. ACS Applied Materials & Interfaces, 2022, 14, 18782-18793. | 4.0 | 11 |
| 95 | A new anodic buffer layer material for non-mixed planar heterojunction chloroboron subphthalocyanine organic photovoltaic achieving 96% internal quantum efficiency. Solar Energy Materials and Solar Cells, 2015, 137, 138-145. | 3.0 | 10 |
| 96 | Enhancing the signal contrast ratio and stability of liquid crystal-based sensors by using fine grids made by photolithography of photoresists. Analyst, The, 2021, 146, 3834-3840. | 1.7 | 10 |
| 97 | Transparent photodetectors with ultra-low dark current and high photoresponse for near-infrared detection. Organic Electronics, 2021, 99, 106356. | 1.4 | 10 |
| 98 | A phosphorescent OLED with an efficiency roll-off lower than 1% at 10â€‰000 cd m<sup>â^'2</sup> achieved by reducing the carrier mobility of the donors in an exciplex co-host system. Journal of Materials Chemistry C, 2022, 10, 4955-4964. | 2.7 | 10 |
| 99 | Solution-processed organic micro crystal transistor based on tetraceno[2,3-b]thiophene from a monoketone precursor. Journal of Materials Chemistry, 2011, 21, 11317. | 6.7 | 9 |
| 100 | In situ vacuum measurement of the thickness dependence of electron mobility in naphthalenetetracarboxylic diimide-based field-effect transistors. Applied Physics Letters, 2011, 98, 023306. | 1.5 | 9 |
| 101 | Improvement in the open-circuit voltage of an organic photovoltaic device through selection of a suitable and low-lying highest occupied molecular orbital for the electron donor layer. Journal of Materials Research, 2013, 28, 1442-1448. | 1.2 | 9 |
| 102 | Improving Performance and Lifetime of Small-Molecule Organic Photovoltaic Devices by Using Bathocuproineâ€“Fullerene Cathodic Layer. ACS Applied Materials & Interfaces, 2015, 7, 9262-9273. | 4.0 | 9 |
| 103 | Decoupling the optical and electrical properties of subphthalocyanine/C<sub>70</sub> bi-layer organic photovoltaic devices: improved photocurrent while maintaining a high open-circuit voltage and fill factor. RSC Advances, 2015, 5, 5617-5626. | 1.7 | 9 |
| 104 | Role of Li+ and Fe3+ in modified ZnO: Structural, vibrational, opto-electronic, mechanical and magnetic properties. Ceramics International, 2019, 45, 7232-7243. | 2.3 | 9 |
| 105 | Tandem Organic Light-Emitting Diode and Organic Photovoltaic Device Inside Polymer Dispersed Liquid Crystal Cell. Journal of Display Technology, 2013, 9, 787-793. | 1.3 | 8 |
| 106 | Downscaling the Sample Thickness to Sub-Micrometers by Employing Organic Photovoltaic Materials as a Charge-Generation Layer in the Time-of-Flight Measurement. Scientific Reports, 2015, 5, 10384. | 1.6 | 8 |
| 107 | Vacuumâ€Deposited Transparent Organic Photovoltaics for Efficiently Harvesting Selective Ultraviolet and Nearâ€Infrared Solar Energy. Solar Rrl, 2021, 5, 2170032. | 3.1 | 8 |
| 108 | Structural effect of phenylcarbazole-based molecules on the exciplex-forming co-host system to achieve highly efficient phosphorescent OLEDs with low efficiency roll-off. Journal of Materials Chemistry C, 2021, 9, 9453-9464. | 2.7 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Ultra-thin and graded sliver electrodes for use in transparent pentacene field-effect transistors. Organic Electronics, 2014, 15, 1990-1997. | 1.4 | 7 |
| 110 | An alternative composite electrode for efficient organic light-emitting diodes. Organic Electronics, 2020, 85, 105844. | 1.4 | 7 |
| 111 | Platinum(II)â€Mediated Double Coupling of 2,3â€Diphenylmaleimidine with Nitrile Functionalities To Give Annulated Pentaazanonatetraenate (PANT) Systems. European Journal of Inorganic Chemistry, 2016, 2016, 1480-1487. | 1.0 | 6 |
| 112 | Stamped Self-Assembled Monolayers on Electrode for Connecting Organic Light-Emitting Diode and Organic Photovoltaic Device. Journal of Display Technology, 2011, 7, 229-234. | 1.3 | 5 |
| 113 | Efficiency improvement of organic bifunctional devices by applying omnidirectional antireflection nanopillars. RSC Advances, 2014, 4, 9588. | 1.7 | 5 |
| 114 | Low resistance and high work-function WO<sub>3</sub>/Ag/MoO<sub>2</sub>multilayer as transparent anode for bright organic light-emitting diodes. Japanese Journal of Applied Physics, 2015, 54, 03CC01. | 0.8 | 5 |
| 115 | Efficient Deep Blue Organic Light-Emitting Diodes Based on Wide Band Gap 4-Hydroxy-8-Methyl-1.5-Naphthyridine Aluminum Chelate as Emitting and Electron Transporting Layer. Journal of Display Technology, 2011, 7, 454-458. | 1.3 | 4 |
| 116 | Pâ€131: Fully Integration of Transflective Hybrid Device Consisting of PSCT and Inâ€cell OLED. Digest of Technical Papers SID International Symposium, 2011, 42, 1602-1605. | 0.1 | 4 |
| 117 | A new model for optimization of organic light-emitting device by concurrent incorporation of electrical and optical simulations. Journal of Applied Physics, 2012, 112, . | 1.1 | 4 |
| 118 | Multicomponent Zn(1-)Fe0.8Na0.2O semiconductors: Effect of dopant concentration and ionic radius on structural, opto-electronics, magnetic and sensing properties. Materials Science in Semiconductor Processing, 2019, 98, 121-130. | 1.9 | 4 |
| 119 | New Dâ€Aâ€Aâ€™â€Configured Small Molecule Donors Employing Conjugation to Redâ€shift the Absorption for Photovoltaics. Chemistry - an Asian Journal, 2020, 15, 2520-2531. | 1.7 | 4 |
| 120 | Realizing a colorful polymer solar cell with high color purityviaa metal alloy-dielectricâ€“metal alloy electrode. Journal of Materials Chemistry C, 2021, 9, 11142-11152. | 2.7 | 4 |
| 121 | Probing Electron Excitation Characters of Carboline-Based Bis-Tridentate Ir(III) Complexes. Molecules, 2021, 26, 6048. | 1.7 | 3 |
| 122 | P-178: Semi-transparent Tandem Device Comprising Organic Light-emitting Diodes and Organic Solar Cell. Digest of Technical Papers SID International Symposium, 2011, 42, 1767-1769. | 0.1 | 2 |
| 123 | The Effect of Controlled Dopant Concentration on the Performance of Blue Polymer Lightâ€emitting Diodes. Journal of the Chinese Chemical Society, 2011, 58, 326-331. | 0.8 | 2 |
| 124 | Improvement in the Power Conversion Efficiency of Bulk Heterojunction Photovoltaic Device via Thermal Postannealing of Subphthalocyanine:C<sub>70</sub>Active Layer. International Journal of Photoenergy, 2013, 2013, 1-7. | 1.4 | 2 |
| 125 | A Colorful Organic Photovoltaic Devices with a 5.48 % Power Conversion Efficiency. , 2019, , . | | 2 |
| 126 | Improving Stability of Pentacene Field-Effect Transistors with Post-Annealing. Materials Research Society Symposia Proceedings, 2007, 1029, 1. | 0.1 | 1 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Enhancing Device Performance of Small Molecular Organic Photovoltaic Cells by Controlling the Deposition Rate of Fullerene. Journal of the Chinese Chemical Society, 2013, 60, 160-165. | 0.8 | 1 |
| 128 | 84â€4: Invited Paper: Nearâ€Infrared Organic Upconversion Device with High Image Sensing Quality. Digest of Technical Papers SID International Symposium, 2018, 49, 1147-1150. | 0.1 | 1 |
| 129 | 22â€3: Distinquished Student Paper: Flexible Quantum Dot Light Emitting Devices for Photomedicine. Digest of Technical Papers SID International Symposium, 2018, 49, 275-278. | 0.1 | 1 |
| 130 | 26â€1: Invited Paper: High Efficiency and High Stability Exciplexâ€Based OLEDs. Digest of Technical Papers SID International Symposium, 2018, 49, 328-331. | 0.1 | 1 |
| 131 | Organic Photodetectors: Vacuumâ€Processed Small Molecule Organic Photodetectors with Low Dark Current Density and Strong Response to Nearâ€Infrared Wavelength (Advanced Optical Materials) Tj ETQq1 1 0.784314 rgBT /Overlock | 8.8 | 1 |
| 132 | Vacuum deposited WO3/Al/Al:Ag anode for efficient red organic light-emitting diodes. Organic Electronics, 2022, 103, 106454. | 1.4 | 1 |
| 133 | Efficient Thin Polymer Solar Cells with Post-Annealing. Materials Research Society Symposia Proceedings, 2007, 1031, 1. | 0.1 | 0 |
| 134 | Pâ€158: Connecting Architecture for Organic Lightâ€emitting Diodes Integrated with Organic Photovoltaic Device. Digest of Technical Papers SID International Symposium, 2010, 41, 1841-1844. | 0.1 | 0 |
| 135 | 39.1: Solution Processed Molecular Materials in the Fabrication of Flexible Phosphorescence-based OLEDs. Digest of Technical Papers SID International Symposium, 2010, 41, 548. | 0.1 | 0 |
| 136 | High-performance organic photovoltaic device using a new amorphous molecular material of bis(4-(N-(l-naphthyl)phenylamino) phenyl)fumaronitrile. , 2010, , . | | 0 |
| 137 | P-180: Low-Reflectance Organic Light-emitting Diode Embedded with Organic Solar Cell. Digest of Technical Papers SID International Symposium, 2011, 42, 1773-1775. | 0.1 | 0 |
| 138 | Low resistance and high work-function WO<inf>3</inf>/Ag/MoO<inf>2</inf> multilayer as transparent anode for bright organic light-emitting diodes. , 2014, , . | | 0 |
| 139 | Sensing: Transparent Organic Upconversion Devices for Near-Infrared Sensing (Adv. Mater. 7/2015). Advanced Materials, 2015, 27, 1216-1216. | 11.1 | 0 |
| 140 | Efficiency improvement of current gain in organic up-conversion devices by maintaining hole blocking property at interface of anode/charge generation layer. , 2015, , . | | 0 |
| 141 | A wide absorption donor-acceptor active layer for vacuum-deposited organic photovoltaic devices with a 6.8 % power conversion efficiency. , 2015, , . | | 0 |
| 142 | Highly efficient and inverted tandem organic light-emitting devices using a MoO<inf>3</inf>/Al/MoO<inf>3</inf> charge generation layer. , 2016, , . | | 0 |
| 143 | High current gain organic upconversion device using sublimated chloroaluminum phthalocyanine as a charge generation layer. , 2016, , . | | 0 |
| 144 | Structural, opto-electronics and magnetic study of Fe/Si doped ZnO. Journal of Materials Science: Materials in Electronics, 2019, 30, 9344-9355. | 1.1 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | Aggregation Control, Surface Passivation, and Optimization of Device Structure toward Nearâ€Infrared Perovskite Quantumâ€Dot Lightâ€Emitting Diodes with an EQE up to 15.4% (Adv. Mater. 18/2022). Advanced Materials, 2022, 34, . | 11.1 | 0 |