

# Wen-Ming Su

## List of Publications by Year in descending order

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79  
papers

2,004  
citations

236925

25  
h-index

265206

42  
g-index

80  
all docs

80  
docs citations

80  
times ranked

2312  
citing authors

#	ARTICLE	IF	CITATIONS
1	Screen-Printed Poly(3,4-Ethylenedioxythiophene):Poly(Styrenesulfonate) Grids as ITO-Free Anodes for Flexible Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2018, 28, 1705955.	14.9	149
2	Enhancing Performance of Large-Area Organic Solar Cells with Thick Film via Ternary Strategy. <i>Small</i> , 2017, 13, 1700388.	10.0	113
3	A Universal Ternary-Solvent-Ink Strategy toward Efficient Inkjet-Printed Perovskite Quantum Dot Light-Emitting Diodes. <i>Advanced Materials</i> , 2022, 34, e2107798.	21.0	109
4	Embedded Ag/Ni Metal-Mesh with Low Surface Roughness As Transparent Conductive Electrode for Optoelectronic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 37048-37054.	8.0	84
5	Printable High-Aspect Ratio and High-Resolution Cu Grid Flexible Transparent Conductive Film with Figure of Merit over 80 000. <i>Advanced Electronic Materials</i> , 2019, 5, 1800991.	5.1	76
6	Facile and Efficient Patterning Method for Silver Nanowires and Its Application to Stretchable Electroluminescent Displays. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 24074-24085.	8.0	73
7	Efficient multi-barrier thin film encapsulation of OLED using alternating Al <sub>2</sub> O <sub>3</sub> and polymer layers. <i>RSC Advances</i> , 2018, 8, 5721-5727.	3.6	70
8	Boosting the efficiency of inverted quantum dot light-emitting diodes by balancing charge densities and suppressing exciton quenching through band alignment. <i>Nanoscale</i> , 2018, 10, 592-602.	5.6	66
9	Realizing 22.3% EQE and 7-Fold Lifetime Enhancement in QLEDs via Blending Polymer TFB and Cross-Linkable Small Molecules for a Solvent-Resistant Hole Transport Layer. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 13087-13095.	8.0	62
10	Efficiency above 12% for 1 cm <sup>2</sup> Flexible Organic Solar Cells with Ag/Cu Grid Transparent Conducting Electrode. <i>Advanced Science</i> , 2019, 6, 1901490.	11.2	58
11	Homoleptic tris-cyclometalated iridium(III) complexes with phenylimidazole ligands for highly efficient sky-blue OLEDs. <i>New Journal of Chemistry</i> , 2015, 39, 246-253.	2.8	55
12	Modification of the Highly Conductive PEDOT:PSS Layer for Use in Silver Nanogrid Electrodes for Flexible Inverted Polymer Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7834-7842.	8.0	55
13	Inkjet-Printed High-Efficiency Multilayer QLEDs Based on a Novel Crosslinkable Small-Molecule Hole Transport Material. <i>Small</i> , 2019, 15, e1900111.	10.0	50
14	Pyridine-Based Electron-Transport Materials with High Solubility, Excellent Film-Forming Ability, and Wettability for Inkjet-Printed OLEDs. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 38716-38727.	8.0	43
15	High performance inkjet-printed QLEDs with 18.3% EQE: improving interfacial contact by novel halogen-free binary solvent system. <i>Nano Research</i> , 2021, 14, 4125-4131.	10.4	42
16	Inkjet-Printed Quantum Dot Light-Emitting Diodes with an Air-Stable Hole Transport Material. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 16351-16359.	8.0	40
17	Realizing 17.0% external quantum efficiency in red quantum dot light-emitting diodes by pursuing the ideal inkjet-printed film and interface. <i>Organic Electronics</i> , 2019, 73, 247-254.	2.6	40
18	Electrochemical Corrosion of Ag Electrode in the Silver Grid Electrode-Based Flexible Perovskite Solar Cells and the Suppression Method. <i>Solar Rrl</i> , 2018, 2, 1800118.	5.8	37

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19	12.42% Monolithic 25.42 cm <sup>2</sup> Flexible Organic Solar Cells Enabled by an Amorphous ITO-Modified Metal Grid Electrode. <i>Advanced Materials</i> , 2022, 34, e2110276.	21.0	37
20	Multiscale Micro-Nano Nested Structures: Engineered Surface Morphology for Efficient Light Escaping in Organic Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 26989-26998.	8.0	35
21	Synthesis, Crystal Analyses, Physical Properties, and Electroluminescent Behavior of Unsymmetrical Heterotwistacenes. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 18998-19003.	8.0	33
22	Highly Air-Stable Electron Transport Material for Inkjet-Printed OLEDs. <i>Chemistry - A European Journal</i> , 2016, 22, 16576-16585.	3.3	31
23	0.7% Roll-off for Solution-Processed Blue Phosphorescent OLEDs with a Novel Electron Transport Material. <i>ACS Photonics</i> , 2017, 4, 449-453.	6.6	30
24	Hybrid Printing Metal-mesh Transparent Conductive Films with Lower Energy Photonically Sintered Copper/tin Ink. <i>Scientific Reports</i> , 2017, 7, 13239.	3.3	30
25	Cross-wavelength invisibility integrated with various invisibility tactics. <i>Science Advances</i> , 2020, 6, .	10.3	29
26	Transparent Therapeutic Skin Patch Based on Highly Conductive and Stretchable Copper Mesh Heater. <i>Advanced Electronic Materials</i> , 2021, 7, 2100611.	5.1	28
27	In-Depth Investigation of Inkjet-Printed Silver Electrodes over Large Area: Ink Recipe, Flow, and Solidification. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	27
28	Functionalized coumarin derivatives containing aromatic-imidazole unit as organic luminescent materials. <i>Dyes and Pigments</i> , 2020, 173, 107958.	3.7	26
29	High-resolution and large-size stretchable electrodes based on patterned silver nanowires composites. <i>Nano Research</i> , 2022, 15, 4590-4598.	10.4	26
30	Thermally Cross-Linkable Host Materials for Solution-Processed OLEDs: Synthesis, Characterization, and Optoelectronic Properties. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 3737-3747.	2.4	25
31	Efficient green phosphorescent Ir(III) complexes with $\beta^2$ -diketonate ancillary ligands. <i>Inorganic Chemistry Frontiers</i> , 2018, 5, 2321-2331.	6.0	24
32	Fully Printed, Large-Size Alternating Current Electroluminescent Device on Fabric for Wearable Textile Display. <i>ACS Applied Electronic Materials</i> , 2021, 3, 1747-1757.	4.3	24
33	Flexible integrated diode-transistor logic (DTL) driving circuits based on printed carbon nanotube thin film transistors with low operation voltage. <i>Nanoscale</i> , 2018, 10, 614-622.	5.6	23
34	Novel ternary bipolar host material with carbazole, triazole and phosphine oxide moieties for high efficiency sky-blue OLEDs. <i>New Journal of Chemistry</i> , 2014, 38, 650-656.	2.8	22
35	Photocross-Linkable Hole Transport Materials for Inkjet-Printed High-Efficient Quantum Dot Light-Emitting Diodes. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 58369-58377.	8.0	21
36	Highly efficient phosphorescent materials based on Ir(III) complexes-grafted on a polyhedral oligomeric silsesquioxane core. <i>Dalton Transactions</i> , 2016, 45, 13491-13502.	3.3	19

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37	Four new bipolar Indolo[3,2-b]carbazole derivatives for blue OLEDs. <i>Dyes and Pigments</i> , 2021, 187, 109096.	3.7	19
38	Benzo[d]imidazole-functionalized triazatruxenes as the emitting materials for solution-processed non-doped OLEDs. <i>Dyes and Pigments</i> , 2021, 188, 109165.	3.7	19
39	Synthesis, structure, photo- and electro-luminescence of an iridium(III) complex with a novel carbazole functionalized $\beta^2$ -diketone ligand. <i>RSC Advances</i> , 2014, 4, 554-562.	3.6	18
40	Synthesis and characterization of green-emitting Ir(III) complexes based on a functionalized benzimidazole ligand. <i>New Journal of Chemistry</i> , 2017, 41, 2046-2054.	2.8	18
41	Optimizing the central steric hindrance of cross-linkable hole transport materials for achieving highly efficient RGB QLEDs. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3368-3377.	5.9	18
42	Durability Study of Thermal Transfer Printed Textile Electrodes for Wearable Electronic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 29144-29155.	8.0	17
43	Omnidirectionally stretchable electrodes based on wrinkled silver nanowires through the shrinkage of electrospun polymer fibers. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16798-16807.	5.5	16
44	Solar-energy camouflage coating with varying sheet resistance. <i>Nano Energy</i> , 2020, 77, 105095.	16.0	15
45	Synthesis and photo- and electro-luminescent properties of Ir(III) complexes attached to polyhedral oligomeric silsesquioxane materials. <i>RSC Advances</i> , 2015, 5, 80572-80582.	3.6	13
46	SERS-active substrate assembled by Ag NW-embedded porous polystyrene fibers. <i>RSC Advances</i> , 2020, 10, 21845-21851.	3.6	13
47	Photo- and electro-luminescence properties of the organic bipolar molecules containing phenothiazine and phenanthoimidazole moieties. <i>Synthetic Metals</i> , 2020, 265, 116406.	3.9	12
48	Linear cross-linkers enabling photothermally cured hole transport layer for high-performance quantum dots light-emitting diodes with ultralow efficiency roll-off. <i>Chemical Engineering Journal</i> , 2022, 439, 135702.	12.7	10
49	All solution-processed large-area patterned flexible photodetectors based on ZnOEP/PVK hybrid film. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7841-7845.	5.5	9
50	A printed aluminum cathode with low sintering temperature for organic light-emitting diodes. <i>RSC Advances</i> , 2015, 5, 608-611.	3.6	8
51	Ito-Free Flexible Electronics: Screen-Printed Poly(3,4-Ethylenedioxythiophene):Poly(Styrenesulfonate) Grids as ITO-Free Anodes for Flexible Organic Light-Emitting Diodes (Adv. Funct. Mater. 11/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870072.	14.9	8
52	Fast Welding of Silver Nanowires for Flexible Transparent Conductive Film by Spatial Light Modulated Femtosecond Laser. <i>Advanced Engineering Materials</i> , 2021, 23, 2100584.	3.5	8
53	Finely Controlled Synthesis of Zn <sub>1-x</sub> Mg <sub>x</sub> O Nanoparticles with Uniform Size Distribution Used as Electron Transport Materials for Red QLEDs. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1875-1881.	4.3	8
54	Synthesis and physical properties of triphenylamine-functionalized twistacenes: blue-emitting fluorophores. <i>RSC Advances</i> , 2017, 7, 10570-10574.	3.6	6

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55	Investigation of the imidazole-derived moiety/spiro[fluorene-9,9'-xanthene] hybrid compounds for blue luminescent materials. <i>Synthetic Metals</i> , 2021, 277, 116771.	3.9	6
56	Femtosecond Laser Patterning Wettability-Assisted PDMS for Fabrication of Flexible Silver Nanowires Electrodes. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100608.	3.7	6
57	Directional and on-demand ion transport regulated by pH and voltage in submicrochannel heteromembrane based on conducting polymer. <i>Chemical Engineering Journal</i> , 2022, 444, 136548.	12.7	6
58	Controllable ion transport induced by pH gradient in a thermally crosslinked submicrochannel heterogeneous membrane. <i>Analyst</i> , 2021, 146, 6815-6821.	3.5	5
59	Molecular Modulation Based on the Terminal Substituent in Twistacenes for Organic Light-Emitting Diodes. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 424-431.	2.7	4
60	Synthesis and luminescence properties of two cross-linkable Ir(III) complexes. <i>New Journal of Chemistry</i> , 2021, 45, 19154-19163.	2.8	4
61	Effect of different imidazole derived moieties on the photo- and electro-luminescence properties of 2,7,12-trisubstituted triazatruxene derivatives. <i>New Journal of Chemistry</i> , 2021, 45, 21395-21405.	2.8	3
62	Photo- and electro-luminescence properties of two coumarin-triarylimidazole hybrid derivatives. <i>New Journal of Chemistry</i> , 2021, 46, 212-220.	2.8	3
63	All-in-one electrochromic transparency-tuning window with an integrated metal-mesh heating film. <i>Flexible and Printed Electronics</i> , 2022, 7, 025001.	2.7	3
64	43.2: Low Surface Roughness Transparent Conductive Electrode for QLED Applications. <i>Digest of Technical Papers SID International Symposium</i> , 2018, 49, 468-470.	0.3	2
65	Observation of High-Frequency Raman Modes in FeCl <sub>3</sub> - and Zn-Intercalated MoS <sub>2</sub> Flakes. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 5049-5053.	0.9	2
66	Quantum Dots: Inkjet-Printed High-Efficiency Multilayer QLEDs Based on a Novel Crosslinkable Small-Molecule Hole Transport Material (Small 16/2019). <i>Small</i> , 2019, 15, 1970083.	10.0	2
67	Efficiency enhancement of quantum-dot light-emitting diodes via rapid post-treatment of intense pulsed light sintering technique. <i>Chemical Physics Letters</i> , 2020, 739, 137048.	2.6	2
68	13.2: Invited Paper: Synergistic photothermal strategy for low-temperature cross-linking of hole transport materials for red QLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2021, 52, 184-186.	0.3	2
69	Yellow Organic Light-Emitting Diodes from Heteroleptic Iridium(III) Complexes with Avobenzone Ligands as Dopants. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 5571-5576.	2.0	1
70	P4.4.2: Inkjet printed OLEDs based on novel cross-linkable electron transport materials. <i>Digest of Technical Papers SID International Symposium</i> , 2018, 49, 756-758.	0.3	1
71	Electrochemical Corrosion of Ag Electrode in the Silver Grid Electrode-Based Flexible Perovskite Solar Cells and the Suppression Method (Solar RRL 9(2018)). <i>Solar Rrl</i> , 2018, 2, 1870207.	5.8	1
72	P4.1.74: Inkjet Printed OLEDs based on Novel Cross-Linkable Electron Transport Materials. <i>Digest of Technical Papers SID International Symposium</i> , 2018, 49, 1815-1817.	0.3	1

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73	Photo- and electro-luminescent properties of 2,7-disubstituted spiro[fluorene-9,9'-xanthene] derivatives containing imidazole-derived moieties. <i>New Journal of Chemistry</i> , 0, , .	2.8	1
74	A simple process to create micro-gaps in printed copper electrodes by sintering induced stress in flexible PET substrates. <i>Flexible and Printed Electronics</i> , 2021, 6, 024005.	2.7	1
75	Femtosecond Laser Patterning Wettability-Assisted PDMS for Fabrication of Flexible Silver Nanowires Electrodes ( <i>Adv. Mater. Interfaces</i> 19/2021). <i>Advanced Materials Interfaces</i> , 2021, 8, 2170108.	3.7	1
76	Enhanced light extraction of organic light emitting diodes by embedding printed polymethyl methacrylate dot array. , 2014, , .		0
77	P-229: Late-News Poster : Flexible Barrier Layer to Prevent Silver Mesh Transparent Conductive Films from Electrochemical Migration. <i>Digest of Technical Papers SID International Symposium</i> , 2017, 48, 1793-1796.	0.3	0
78	P-4.2: Stretchable Transparent Electronic Circuit without Resistance Variation at 150% Strain Using Printing and Transfer Fabrication. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 993-995.	0.3	0
79	31.3: <i>Invited Paper:</i> Inkjet-Printed High-Efficiency Red QLEDs Based on a Novel Cross-Linkable Small Molecular HTL. <i>Digest of Technical Papers SID International Symposium</i> , 2019, 50, 335-335.	0.3	0