

Zheng Cui

List of Publications by Year in descending order

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91
papers

4,933
citations

126907

33
h-index

91884

69
g-index

103
all docs

103
docs citations

103
times ranked

7072
citing authors

#	ARTICLE	IF	CITATIONS
1	Silk-Molded Flexible, Ultrasensitive, and Highly Stable Electronic Skin for Monitoring Human Physiological Signals. <i>Advanced Materials</i> , 2014, 26, 1336-1342.	21.0	1,225
2	Hypoxia and H ₂ O ₂ Dual-Sensitive Vesicles for Enhanced Glucose-Responsive Insulin Delivery. <i>Nano Letters</i> , 2017, 17, 733-739.	9.1	220
3	Electrohydrodynamic printing of silver nanowires for flexible and stretchable electronics. <i>Nanoscale</i> , 2018, 10, 6806-6811.	5.6	208
4	Stretch-Triggered Drug Delivery from Wearable Elastomer Films Containing Therapeutic Depots. <i>ACS Nano</i> , 2015, 9, 9407-9415.	14.6	196
5	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
6	Printed Neuromorphic Devices Based on Printed Carbon Nanotube Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1604447.	14.9	147
7	Soft electrothermal actuators using silver nanowire heaters. <i>Nanoscale</i> , 2017, 9, 3797-3805.	5.6	142
8	Compact, Highly Efficient, and Fully Flexible Circularly Polarized Antenna Enabled by Silver Nanowires for Wireless Body-Area Networks. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017, 11, 920-932.	4.0	139
9	Battery-Free and Wireless Smart Wound Dressing for Wound Infection Monitoring and Electrically Controlled On-Demand Drug Delivery. <i>Advanced Functional Materials</i> , 2021, 31, 2100852.	14.9	135
10	Tailoring the Temperature Coefficient of Resistance of Silver Nanowire Nanocomposites and their Application as Stretchable Temperature Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 17836-17842.	8.0	129
11	Battery-Free and Wireless Epidermal Electrochemical System with All-Printed Stretchable Electrode Array for Multiplexed In Situ Sweat Analysis. <i>Advanced Materials Technologies</i> , 2019, 4, 1800658.	5.8	124
12	Inkjet printed silver nanowire network as top electrode for semi-transparent organic photovoltaic devices. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	116
13	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
14	Thrombin-Responsive Transcutaneous Patch for Auto-Anticoagulant Regulation. <i>Advanced Materials</i> , 2017, 29, 1604043.	21.0	90
15	Embedded Ag/Ni Metal-Mesh with Low Surface Roughness As Transparent Conductive Electrode for Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 37048-37054.	8.0	84
16	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
17	Facile and Efficient Patterning Method for Silver Nanowires and Its Application to Stretchable Electroluminescent Displays. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 24074-24085.	8.0	73
18	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 & Interfaces</i> , 2020, 12, 13087-13095.	8.0	62

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19	The elastic microstructures of inkjet printed polydimethylsiloxane as the patterned dielectric layer for pressure sensors. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	59
20	Homoleptic tris-cyclometalated iridium($\text{Ir}(\text{acac})_3$) complexes with phenylimidazole ligands for highly efficient sky-blue OLEDs. <i>New Journal of Chemistry</i> , 2015, 39, 246-253.	2.8	55
21	Radiation-hardened and repairable integrated circuits based on carbon nanotube transistors with ion gel gates. <i>Nature Electronics</i> , 2020, 3, 622-629.	26.0	53
22	Flexible CMOS-Like Circuits Based on Printed p-Type and n-Type Carbon Nanotube Thin-Film Transistors. <i>Small</i> , 2016, 12, 5066-5073.	10.0	51
23	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
24	Design and operation of silver nanowire based flexible and stretchable touch sensors. <i>Journal of Materials Research</i> , 2015, 30, 79-85.	2.6	48
25	Printed thin film transistors and CMOS inverters based on semiconducting carbon nanotube ink purified by a nonlinear conjugated copolymer. <i>Nanoscale</i> , 2016, 8, 4588-4598.	5.6	44
26	Pyridine-Based Electron-Transport Materials with High Solubility, Excellent Film-Forming Ability, and Wettability for Inkjet-Printed OLEDs. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38716-38727.	8.0	43
27	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
28	Fabrication and electrical properties of all-printed carbon nanotube thin film transistors on flexible substrates. <i>Journal of Materials Chemistry</i> , 2012, 22, 20747.	6.7	41
29	Selective Conversion from p-Type to n-Type of Printed Bottom-Gate Carbon Nanotube Thin-Film Transistors and Application in Complementary Metal-Oxide-Semiconductor Inverters. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12750-12758.	8.0	41
30	Inkjet-Printed Quantum Dot Light-Emitting Diodes with an Air-Stable Hole Transport Material. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16351-16359.	8.0	40
31	Printed thin-film transistors with functionalized single-walled carbon nanotube inks. <i>Journal of Materials Chemistry</i> , 2012, 22, 2051-2056.	6.7	39
32	Inkjet printing of oxide thin film transistor arrays with small spacing with polymer-doped metal nitrate aqueous ink. <i>Journal of Materials Chemistry C</i> , 2017, 5, 7495-7503.	5.5	36
33	Flexible 1-3 Composite Ultrasound Transducers With Silver-Nanowire-Based Stretchable Electrodes. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 6955-6962.	7.9	35
34	Highly Air-Stable Electron-Transport Material for Inkjet-Printed OLEDs. <i>Chemistry - A European Journal</i> , 2016, 22, 16576-16585.	3.3	31
35	High-performance metal-oxide thin-film transistors based on inkjet-printed self-confined bilayer heterojunction channels. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6169-6177.	5.5	31
36	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

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37	Ambipolar Deep-Subthreshold Printed-Carbon-Nanotube Transistors for Ultralow-Voltage and Ultralow-Power Electronics. <i>ACS Nano</i> , 2020, 14, 14036-14046.	14.6	30
38	Printable Stretchable Silver Ink and Application to Printed RFID Tags for Wearable Electronics. <i>Materials</i> , 2019, 12, 3036.	2.9	29
39	Printing practice for the fabrication of flexible and stretchable electronics. <i>Science China Technological Sciences</i> , 2019, 62, 224-232.	4.0	29
40	Blended host ink for solution processing high performance phosphorescent OLEDs. <i>Scientific Reports</i> , 2019, 9, 6845.	3.3	28
41	Transparent Therapeutic Skin Patch Based on Highly Conductive and Stretchable Copper Mesh Heater. <i>Advanced Electronic Materials</i> , 2021, 7, 2100611.	5.1	28
42	Overcoming Electrochemical Instabilities of Printed Silver Electrodes in All-Printed Ion Gel Gated Carbon Nanotube Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41531-41543.	8.0	27
43	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
44	Ethanolamine-assisted synthesis of size-controlled indium tin oxide nanoinks for low temperature solution deposited transparent conductive films. <i>Journal of Materials Chemistry C</i> , 2015, 3, 11464-11470.	5.5	26
45	Metal Mesh as a Transparent Omnidirectional Strain Sensor. <i>Advanced Materials Technologies</i> , 2019, 4, 1800698.	5.8	26
46	High-resolution and large-size stretchable electrodes based on patterned silver nanowires composites. <i>Nano Research</i> , 2022, 15, 4590-4598.	10.4	26
47	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
48	Continuous and rapid fabrication of photochromic fibers by facilely coating tungsten oxide/polyvinyl alcohol composites. <i>RSC Advances</i> , 2018, 8, 28581-28587.	3.6	25
49	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
50	Printed highly conductive Cu films with strong adhesion enabled by low-energy photonic sintering on low-Tg flexible plastic substrate. <i>Nanotechnology</i> , 2017, 28, 035203.	2.6	23
51	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
52	Selective Dispersion of Large-Diameter Semiconducting Carbon Nanotubes by Functionalized Conjugated Dendritic Oligothiophenes for Use in Printed Thin Film Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1703938.	14.9	22
53	Performance improvement for printed indium gallium zinc oxide thin-film transistors with a preheating process. <i>RSC Advances</i> , 2016, 6, 41439-41446.	3.6	20
54	27.5L:Late-News Paper: Hybrid Printing of High Resolution Metal Mesh as A Transparent Conductor for Touch Panels and OLED Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2015, 46, 398-400.	0.3	19

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55	A Biaxially Stretchable and Self-Sensing Textile Heater Using Silver Nanowire Composite. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59085-59091.	8.0	19
56	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
57	Novel phosphorescent iridium (ⁱⁱⁱ) emitters for both vacuum-deposition and inkjet-printing of OLEDs with exceptionally high efficiency. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4178-4184.	5.5	17
58	Durability Study of Thermal Transfer Printed Textile Electrodes for Wearable Electronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 29144-29155.	8.0	17
59	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
60	Printable poly(methylsilsesquioxane) dielectric ink and its application in solution processed metal oxide thin-film transistors. <i>RSC Advances</i> , 2015, 5, 20924-20930.	3.6	14
61	High-Resolution Inkjet-Printed Oxide Thin-Film Transistors with a Self-Aligned Fine Channel Bank Structure. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15847-15854.	8.0	14
62	Radiation-Hard and Repairable Complementary Metalâ€“Oxideâ€“Semiconductor Circuits Integrating n-type Indium Oxide and p-type Carbon Nanotube Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49963-49970.	8.0	14
63	Selective silencing of the electrical properties of metallic single-walled carbon nanotubes by 4-nitrobenzenediazonium tetrafluoroborate. <i>Journal of Materials Science</i> , 2014, 49, 2054-2062.	3.7	11
64	Highâ€“Performance Partially Printed Hybrid CMOS Inverters Based on Indiumâ€“Zincâ€“Oxide and Chirality Enriched Carbon Nanotube Thinâ€“Film Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1900034.	5.1	11
65	Optically and electrically modulated printed carbon nanotube synaptic transistors with a single input terminal and multi-functional output characteristics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6914-6922.	5.5	11
66	Peripherally diketopyrrolopyrrole-functionalized dendritic oligothiophenes â€“ synthesis, molecular structure, properties and applications. <i>Polymer Chemistry</i> , 2017, 8, 1460-1476.	3.9	9
67	A printed aluminum cathode with low sintering temperature for organic light-emitting diodes. <i>RSC Advances</i> , 2015, 5, 608-611.	3.6	8
68	Itoâ€“Free Flexible Electronics: Screenâ€“Printed Poly(3,4â€“Ethylenedioxythiophene):Poly(Styrenesulfonate) Grids as ITOâ€“Free Anodes for Flexible Organic Lightâ€“Emitting Diodes (<i>Adv. Funct. Mater.</i> 11/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870072.	14.9	8
69	Finely Controlled Synthesis of Zn₁â€“<i>x</i></sub>Mg_{<i>x</i>}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
70	Double layer printed high performance OLED based on PEDOT:PSS/Ir(bt)₂acac:CDBP. <i>AIP Advances</i> , 2018, 8, 115112.	1.3	7
71	Tuning the optical and electrochemical properties of conjugated all-thiophene dendrimers via core functionalization with a benzothiadiazole unit. <i>RSC Advances</i> , 2017, 7, 1606-1616.	3.6	4
72	Molecular Modulation Based on the Terminal Substituent in Twistacenes for Organic Lightâ€“Emitting Diodes. <i>Asian Journal of Organic Chemistry</i> , 2018, 7, 424-431.	2.7	4

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73	Drug Delivery: Thrombin-Responsive Transcutaneous Patch for Auto-Anticoagulant Regulation (Adv.) Tj ETQq1 1,0784314 rgBT /Ove 21.0		3
74	Printed carbon nanotube devices and their applications. , 2012, , .		2
75	49-3L:Late-News Paper: Flexible and Stretchable Hybrid Electronics Systems for Wearable Applications. Digest of Technical Papers SID International Symposium, 2016, 47, 668-671.	0.3	2
76	Photonic sintering of nano-silver conductive ink for printed electronics. , 2016, , .		2
77	66-2: Printed Carbon Nanotube Thin-Film Transistors and Application in OLED Backplane Circuits. Digest of Technical Papers SID International Symposium, 2017, 48, 968-971.	0.3	2
78	43.2: Low Surface Roughness Transparent Conductive Electrode for QLED Applications. Digest of Technical Papers SID International Symposium, 2018, 49, 468-470.	0.3	2
79	Quantum Dots: Inkjet-Printed High-Efficiency Multilayer QLEDs Based on a Novel Crosslinkable Small-Molecule Hole Transport Material (Small 16/2019). Small, 2019, 15, 1970083.	10.0	2
80	Low temperature synthesis of cubic BaTiO ₃ nanoparticles. , 2013, , .		1
81	Printed flexible and stretchable hybrid electronic systems for wearable applications. , 2016, , .		1
82	P-14.2: Inkjet printed OLEDs based on novel cross-linkable electron transport materials. Digest of Technical Papers SID International Symposium, 2018, 49, 756-758.	0.3	1
83	P-174: Inkjet Printed OLEDs based on Novel Cross-linkable Electron Transport Materials. Digest of Technical Papers SID International Symposium, 2018, 49, 1815-1817.	0.3	1
84	Enhanced light extraction of organic light emitting diodes by embedding printed polymethyl methacrylate dot array. , 2014, , .		0
85	P-229: Late-News Poster : Flexible Barrier Layer to Prevent Silver Mesh Transparent Conductive Films from Electrochemical Migration. Digest of Technical Papers SID International Symposium, 2017, 48, 1793-1796.	0.3	0
86	20.1: <i>Invited Paper:</i> Printed Stretchable Electronics and Applications. Digest of Technical Papers SID International Symposium, 2018, 49, 206-206.	0.3	0
87	P-14.2: Stretchable Transparent Electronic Circuit without Resistance Variation at 150% Strain Using Printing and Transfer Fabrication. Digest of Technical Papers SID International Symposium, 2019, 50, 993-995.	0.3	0
88	31.3: <i>Invited Paper:</i> Inkjet-Printed High-Efficiency Red QLEDs Based on a Novel Cross-linkable Small Molecular HTL. Digest of Technical Papers SID International Symposium, 2019, 50, 335-335.	0.3	0
89	43.1: <i>Invited Paper:</i> Large-area and high-performance printed carbon nanotube and metal oxide thin film transistors and their applications. Digest of Technical Papers SID International Symposium, 2019, 50, 483-484.	0.3	0
90	11.1: <i>Invited Paper:</i> Roll-to-Roll Printed Flexible Electronics and Applications. Digest of Technical Papers SID International Symposium, 2019, 50, 107-107.	0.3	0

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91	6.1: Invited Paper: Flexible Electronics Packaging for Wearable Applications. Digest of Technical Papers SID International Symposium, 2021, 52, 38-38.	0.3	0