Zhidong Lou

List of Publications by Year
in descending order

51	976	394421 19	477307 29
papers	citations	h-index	g-index

51	51	51	1773
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Metal oxide nanoparticle-modified ITO electrode for high-performance solution-processed perovskite photodetectors. RSC Advances, 2022, 12, 5638-5647.	3.6	1
2	Aspect-ratio controllable growth of rectangular cesium lead bromide crystallites on PTAA modified substrates. Journal of Materials Chemistry C, 2022, 10, 6473-6480.	5.5	3
3	Overall Enhanced Performance of Polymer Photodetectors by Coâ€Modifying ITO with PEIE and ZnO. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	2.4	3
4	Strong Triplet-Excitonâ€“LO-Phonon Coupling in Two-Dimensional Layered Organicâ€“Inorganic Hybrid Perovskite Single Crystal Microflakes. Journal of Physical Chemistry Letters, 2021, 12, 2133-2141.	4.6	7
5	Highâ€Performance Polymer Photodetectors using ZnO Nanocrystal Trap States. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100003.	2.4	2
6	Dynamics of interfacial carriers and negative photoconductance in CH3NH3PbBr3-ZnO heterostructure. Applied Physics Letters, 2021, 118, .	3.3	8
7	Property Modulation of Two-Dimensional Lead-Free Perovskite Thin Films by Aromatic Polymer Additives for Performance Enhancement of Field-Effect Transistors. ACS Applied Materials & Interfaces, 2021, 13, 24272-24284.	8.0	21
8	Charge Transport in 2D Layered Mixed Snâ€“Pb Perovskite Thin Films for Fieldâ€Effect Transistors. Advanced Electronic Materials, 2021, 7, 2100384.	5.1	22
9	The Trapped Charges at Grain Boundaries in Perovskite Solar Cells. Advanced Functional Materials, 2021, 31, 2107125.	14.9	47
10	Ambipolar transport in two-dimensional Sn-based perovskite field-effect transistors using an aliphatic polymer-assisted method. Journal of Materials Chemistry A, 2021, 9, 22842-22853.	10.3	11
11	Efficient Quasi-Two-Dimensional Perovskite Light-Emitting Diodes with Improved Multiple Quantum Well Structure. ACS Applied Materials & Interfaces, 2020, 12, 1721-1727.	8.0	25
12	Highâ€Performance Polymer Photodetector Using the Nonâ€Thermalâ€andâ€Nonâ€Ultravioletâ€“Ozoneâ€Treated SnO 2 Interfacial Layer. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900531.	2.4	10
13	Impacts of carrier trapping and ion migration on charge transport of perovskite solar cells with TiO_x electron transport layer. RSC Advances, 2020, 10, 28083-28089.	3.6	4
14	Improving ternary blend morphology by adding a conjugated molecule into non-fullerene polymer solar cells. RSC Advances, 2020, 10, 43508-43513.	3.6	6
15	Grain Growth of MAPbI₃ via Diethylammonium Bromide Induced Grain Mergence. ACS Applied Materials & Interfaces, 2020, 12, 16707-16714.	8.0	10
16	Nanowire Junction Induced High Threshold Voltage in Poly(3â€hexylthiophene) Mesoscale Crystalline Thinâ€Film Transistors with Significantly Enhanced Mobility. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900723.	2.4	2
17	Mixed-dimensional self-assembly organicâ€“inorganic perovskite microcrystals for stable and efficient photodetectors. Journal of Materials Chemistry C, 2020, 8, 5399-5408.	5.5	13
18	Role of Hydroxyl on Conductivity Switching of Poly(ethylene oxide)/TiO 2 Electrical Bistable Devices. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900443.	1.8	2

#	Article	IF	Citations
19	Discrete SnO₂ Nanoparticleâ€Modified Poly(3,4â€Ethylenedioxythiophene):Poly(Styrenesulfonate) for Efficient Perovskite Solar Cells. Solar Rrl, 2019, 3, 1970103.	5.8	4
20	Solution-processed organic field-effect transistors with cross-linked poly(4-vinylphenol)/polyvinyl alcohol bilayer dielectrics. Applied Surface Science, 2019, 478, 699-707.	6.1	22
21	Discrete SnO 2 Nanoparticleâ€Modified Poly(3,4â€Ethylenedioxythiophene):Poly(Styrenesulfonate) for Efficient Perovskite Solar Cells. Solar Rrl, 2019, 3, 1900162.	5.8	13
22	Two-dimensional additive diethylammonium iodide promoting crystal growth for efficient and stable perovskite solar cells. RSC Advances, 2019, 9, 7984-7991.	3.6	25
23	Two-dimensional organicâ€“inorganic hybrid perovskite field-effect transistors with polymers as bottom-gate dielectrics. Journal of Materials Chemistry C, 2019, 7, 4004-4012.	5.5	45
24	Enhanced efficiency and light stability of planar perovskite solar cells by diethylammonium bromide induced large-grain 2D/3D hybrid film. Organic Electronics, 2019, 67, 101-108.	2.6	28
25	Synthesis of ultrathin two-dimensional organicâ€“inorganic hybrid perovskite nanosheets for polymer field-effect transistors. Journal of Materials Chemistry C, 2018, 6, 3945-3950.	5.5	36
26	Sensitive, fast, stable, and broadband polymer photodetector with introducing TiO2 nanocrystal trap states. Organic Electronics, 2018, 59, 63-68.	2.6	11
27	Enhanced performance of tin halide perovskite solar cell by addition of lead thiocyanate. RSC Advances, 2018, 8, 14025-14030.	3.6	37
28	Interface studies of well-controlled polymer bilayers and field-effect transistors prepared by a mixed-solvent method. RSC Advances, 2018, 8, 11272-11279.	3.6	14
29	Investigation on the Overshoot of Transient Open-Circuit Voltage in Methylammonium Lead Iodide Perovskite Solar Cells. Materials, 2018, 11, 2407.	2.9	5
30	High-performance light-emitting diode with poly(ethylene oxide) passivated quasi two dimensional perovskite emitting layer. Organic Electronics, 2018, 63, 216-221.	2.6	22
31	High-Performance Photodiode-Type Photodetectors Based on Polycrystalline Formamidinium Lead Iodide Perovskite Thin Films. Scientific Reports, 2018, 8, 11157.	3.3	90
32	Temperature dependent amplified spontaneous emission of vacuum annealed perovskite films. RSC Advances, 2017, 7, 15911-15916.	3.6	22
33	Ligand-free rutile and anatase TiO₂nanocrystals as electron extraction layers for high performance inverted polymer solar cells. RSC Advances, 2017, 7, 20084-20092.	3.6	135
34	High sensitivity, fast response and low operating voltage organic photodetectors by incorporating a water/alcohol soluble conjugated polymer anode buffer layer. RSC Advances, 2017, 7, 1743-1748.	3.6	31
35	Enhanced performance in inverted polymer solar cells employing microwave-annealed sol-gel ZnO as electron transport layers. Organic Electronics, 2017, 42, 107-114.	2.6	11
36	Role of nanoparticle surface defects in the conduction mechanism of polymerâ€“nanoparticle electrical bistable devices. RSC Advances, 2017, 7, 54128-54135.	3.6	15

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37	High sensitivity and fast response solution processed polymer photodetectors with polyethylenimine ethoxylated (PEIE) modified ITO electrode. Optics Express, 2017, 25, 7719.	3.4	52
38	Effects of solvent additives on trapâ€assisted recombination in P3HT:ICBA based polymer solar cells. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2169-2173.	1.8	7
39	Enhanced amplified spontaneous emission from morphology-controlled organicâ€“inorganic halide perovskite films. RSC Advances, 2015, 5, 103674-103679.	3.6	23
40	Effects of photo-induced defects on the performance of PBDTTT-C/PC₇₀ BM solar cells. Physica Status Solidi - Rapid Research Letters, 2015, 9, 120-124.	2.4	9
41	Light emitting field-effect transistors with vertical heterojunctions based on pentacene and tris-(8-hydroxyquinolinato) aluminum. Organic Electronics, 2015, 22, 51-55.	2.6	16
42	Self-Assembled TiO₂ Nanorods as Electron Extraction Layer for High-Performance Inverted Polymer Solar Cells. Chemistry of Materials, 2015, 27, 44-52.	6.7	33
43	Investigation on Thermal Degradation Process of Polymer Solar Cells Based on Blend of PBDTTT-C and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mrow><mml:msub><mml:mrow><mml:mtext>PC</mml:mtext></mml:mrow><mml:mrow><mml:mn mathvariant="bold">70</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>BM. International Journal of Photoenergy, 2014, 2014, 1-9.	2.5	9
44	Effects of gate dielectric thickness and semiconductor thickness on device performance of organic field-effect transistors based on pentacene. Science China Technological Sciences, 2014, 57, 1142-1146.	4.0	10
45	Surface plasmonic effect and scattering effect of Au nanorods on the performance of polymer bulk heterojunction solar cells. Science China Technological Sciences, 2013, 56, 1865-1869.	4.0	8
46	Improvement of amplified spontaneous emission performance of conjugated polymer waveguides with a low loss cladding. Applied Physics Letters, 2012, 101, 153305.	3.3	14
47	Energy distribution in white organic light-emitting diodes with three primary color emitting layers. Science China: Physics, Mechanics and Astronomy, 2011, 54, 84-88.	5.1	3
48	Electric field-modulated amplified spontaneous emission in waveguides based on poly [2-methoxy-5-(2â€²-ethylhexyloxy)-1, 4-phenylene vinylene]. Applied Physics Letters, 2010, 96, 103303.	3.3	20
49	Verification of p-n junctions in polymer light-emitting electrochemical cells via electrical characterization. Applied Physics Letters, 2009, 95, .	3.3	4
50	Influence of heterojunction interface on exciplex emission from organic light-emitting diodes under electric fields. Applied Physics A: Materials Science and Processing, 2008, 90, 475-478.	2.3	5
51	Aggregation-induced emission tetraphenylethylene derivative as optical sensor for ammonia detection. Materials Technology, 0, , 1-6.	3.0	0