

Ta-Ya Chu

List of Publications by Year in descending order

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46
papers

2,680
citations

393982

19
h-index

315357

38
g-index

46
all docs

46
docs citations

46
times ranked

3436
citing authors

#	ARTICLE	IF	CITATIONS
1	Bulk Heterojunction Solar Cells Using Thieno[3,4- <i>c</i>]pyrrole-4,6-dione and Dithieno[3,2- <i>b</i> :2',3'- <i>d</i>]silole Copolymer with a Power Conversion Efficiency of 7.3%. <i>Journal of the American Chemical Society</i> , 2011, 133, 4250-4253.	6.6	1,047
2	Hole mobility of N,N'-bis(naphthalen-1-yl)-N,N'-bis(phenyl) benzidine investigated by using space-charge-limited currents. <i>Applied Physics Letters</i> , 2007, 90, 203512.	1.5	243
3	Effects of the Molecular Weight and the Side-Chain Length on the Photovoltaic Performance of Dithienosilole/Thienopyrrolo-dione Copolymers. <i>Advanced Functional Materials</i> , 2012, 22, 2345-2351.	7.8	223
4	Morphology control in polycarbazole based bulk heterojunction solar cells and its impact on device performance. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	138
5	Stable inverted bottom-emitting organic electroluminescent devices with molecular doping and morphology improvement. <i>Applied Physics Letters</i> , 2006, 89, 053518.	1.5	122
6	Highly efficient and stable inverted bottom-emission organic light emitting devices. <i>Applied Physics Letters</i> , 2006, 89, 053503.	1.5	114
7	Highly efficient polycarbazole-based organic photovoltaic devices. <i>Applied Physics Letters</i> , 2009, 95, 063304.	1.5	107
8	High-efficiency inverted solar cells based on a low bandgap polymer with excellent air stability. <i>Solar Energy Materials and Solar Cells</i> , 2012, 96, 155-159.	3.0	89
9	Effect of mixed solvents on PCDTBT:PC70BM based solar cells. <i>Organic Electronics</i> , 2011, 12, 1788-1793.	1.4	82
10	Inkjet printed thin and uniform dielectrics for capacitors and organic thin film transistors enabled by the coffee ring effect. <i>Organic Electronics</i> , 2016, 29, 114-119.	1.4	50
11	A morphologically stable host material for efficient phosphorescent green and red organic light emitting devices. <i>Thin Solid Films</i> , 2008, 517, 943-947.	0.8	41
12	Structural and optical properties of single crystal Zn _{1-x} Mg _x O nanorods—Experimental and theoretical studies. <i>Journal of Applied Physics</i> , 2007, 101, 033502.	1.1	39
13	Ab initio molecular orbital study of 1,3,5-triazine derivatives for phosphorescent organic light emitting devices. <i>Chemical Physics Letters</i> , 2005, 415, 137-140.	1.2	30
14	Ultrathin Electron Injection Layer on Indium—Tin Oxide Bottom Cathode for Highly Efficient Inverted Organic Light-Emitting Diodes. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 4948-4950.	0.8	30
15	Characterization of electronic structure of aluminum (III) bis(2-methyl-8-quinolinato)-4-phenylphenolate (BALq) for phosphorescent organic light emitting devices. <i>Chemical Physics Letters</i> , 2005, 404, 121-125.	1.2	29
16	Effects of interfacial stability between electron transporting layer and cathode on the degradation process of organic light-emitting diodes. <i>Applied Physics Letters</i> , 2007, 91, 223509.	1.5	27
17	Comparative study of single and multiemissive layers in inverted white organic light-emitting devices. <i>Applied Physics Letters</i> , 2006, 89, 113502.	1.5	25
18	Thickness dependence of the trap states in organic thin film of N,N'-bis(naphthalen-1-yl)-N,N'-bis(phenyl) benzidine. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	22

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19	Apparent thickness dependence of mobility in organic thin films analyzed by Gaussian disorder model. Journal of Applied Physics, 2008, 104, 023711.	1.1	22
20	Ohmic contact probed by dark injection space-charge-limited current measurements. Journal of Applied Physics, 2008, 104, .	1.1	20
21	Printing Silver Conductive Inks with High Resolution and High Aspect Ratio. Advanced Materials Technologies, 2018, 3, 1700321.	3.0	19
22	Iminodibenzyl-substituted distyrylarylenes as dopants for blue and white organic light-emitting devices. Organic Electronics, 2008, 9, 101-110.	1.4	17
23	Electrolyte-Gated Field Effect Transistors in Biological Sensing: A Survey of Electrolytes. IEEE Journal of the Electron Devices Society, 2021, 9, 939-950.	1.2	17
24	Printed flexible capacitive humidity sensors for field application. Sensors and Actuators B: Chemical, 2022, 359, 131620.	4.0	17
25	Direct writing of inkjet-printed short channel organic thin film transistors. Organic Electronics, 2017, 51, 485-489.	1.4	16
26	Compact Modeling of Thin-Film Transistors for Flexible Hybrid IoT Design. IEEE Design and Test, 2019, 36, 6-14.	1.1	16
27	Near-Infrared-II Photodetectors Based on Silver Selenide Quantum Dots on Mesoporous TiO ₂ Scaffolds. ACS Applied Nano Materials, 2020, 3, 12209-12217.	2.4	14
28	Inkjet printable and low annealing temperature gate-dielectric based on polymethylsilsesquioxane for flexible n-channel OFETs. Organic Electronics, 2016, 30, 213-218.	1.4	12
29	Enhanced performance of organic light-emitting diodes with an air-stable n-type hole-injection layer. Applied Physics Letters, 2008, 92, 233307.	1.5	11
30	Ag ₂ Te Colloidal Quantum Dots for Near-Infrared-II Photodetectors. ACS Applied Nano Materials, 2021, 4, 13587-13601.	2.4	11
31	Inkjet-printed unipolar n-type transistors on polymer substrates based on dicyanomethylene-substituted diketopyrrolopyrrole quinoidal compounds. Organic Electronics, 2018, 63, 267-275.	1.4	6
32	Improved Circuit Model Fitting of Inkjet-Printed OTFTs and a Proposal for Standardized Parameter Reporting. IEEE Transactions on Electron Devices, 2018, 65, 2485-2491.	1.6	5
33	Printing Contractive Silver Conductive Inks Using Interface Interactions to Overcome Dewetting. IEEE Journal of the Electron Devices Society, 2019, 7, 756-760.	1.2	4
34	Pyrazine as a noncovalent conformational lock in semiconducting polymers for enhanced charge transport and stability in thin film transistors. Journal of Materials Chemistry C, 2019, 7, 11507-11514.	2.7	3
35	Fully printed parallel plate capacitance humidity sensors. , 2018, , .		2
36	Communicationâ€”Phosphoric Acid Based Proton Conducting Polymer Electrolytes for Organic Field Effect Transistor Gate Dielectrics. ECS Journal of Solid State Science and Technology, 2021, 10, 055003.	0.9	2

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37	Synthesis of Monodisperse Silver Chalcogenide Quantum Dots with Elevated Precursor Reactivity for the Application in Near Infrared Photodetectors. , 2019, , .		2
38	Excitonic effect in black phosphorus oxides. 2D Materials, 2022, 9, 015007.	2.0	2
39	P-192: Highly Efficient Blue Organic Electroluminescent Devices. Digest of Technical Papers SID International Symposium, 2006, 37, 950.	0.1	1
40	Printing Contractive Silver Conductive Inks Using Interface Interactions to Overcome Dewetting. , 2018, , .		1
41	3,7-Bis(2-oxoindolin-3-ylidene)benzo[1,2-b:4,5-bâ€™]difuran-2,6-dione Dicyanides with Engineered Side Chains for Unipolar n-Type Transistors. ACS Applied Electronic Materials, 2020, 2, 103-110.	2.0	1
42	Computational modeling of graphene-ethyl cellulose printed ink: a reactive molecular dynamic study. , 2021, , .		1
43	Fully Printed Organic Pseudo-CMOS Circuits for Sensing Applications. , 2018, , .		0
44	Generic Parameter Extraction of Inkjet-Printed OTFTs via Optimisation Using LTspice and MATLAB. , 2018, , .		0
45	Artificial Neural Network Modelling and Simulation of Organic Field Effect Transistors and Circuits. , 2019, , .		0
46	Development of Printed OTFTs and Logic Circuits. ECS Meeting Abstracts, 2017, , .	0.0	0