

Tzung-Fang Guo

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7916640/tzung-fang-guo-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83 papers	6,552 citations	28 h-index	80 g-index
87 ext. papers	7,207 ext. citations	7.8 avg, IF	5.82 L-index

#	Paper	IF	Citations
83	Improved air stability of perovskite solar cells via solution-processed metal oxide transport layers. <i>Nature Nanotechnology</i> , 2016 , 11, 75-81	28.7	1614
82	CH ₃ NH ₃ PbI ₃ perovskite/fullerene planar-heterojunction hybrid solar cells. <i>Advanced Materials</i> , 2013 , 25, 3727-32	24	1189
81	Nickel oxide electrode interlayer in CH ₃ NH ₃ PbI ₃ perovskite/PCBM planar-heterojunction hybrid solar cells. <i>Advanced Materials</i> , 2014 , 26, 4107-13	24	588
80	Recent Advances in the Inverted Planar Structure of Perovskite Solar Cells. <i>Accounts of Chemical Research</i> , 2016 , 49, 155-65	24.3	472
79	p-type Mesoscopic nickel oxide/organometallic perovskite heterojunction solar cells. <i>Scientific Reports</i> , 2014 , 4, 4756	4.9	333
78	Low-temperature sputtered nickel oxide compact thin film as effective electron blocking layer for mesoscopic NiO/CH ₃ NH ₃ PbI ₃ perovskite heterojunction solar cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11851-8	9.5	270
77	Chicken albumen dielectrics in organic field-effect transistors. <i>Advanced Materials</i> , 2011 , 23, 4077-81	24	147
76	NiO Electrode Interlayer and CH ₃ NH ₃ PbBr Interface Treatment to Markedly Advance Hybrid Perovskite-Based Light-Emitting Diodes. <i>Advanced Materials</i> , 2016 , 28, 8687-8694	24	134
75	Inorganic p-type contact materials for perovskite-based solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9011-9019	13	133
74	An inverted polymer photovoltaic cell with increased air stability obtained by employing novel hole/electron collecting layers. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1643		126
73	A Review of Inorganic Hole Transport Materials for Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800882	4.6	122
72	Highly Efficient 2D/3D Hybrid Perovskite Solar Cells via Low-Pressure Vapor-Assisted Solution Process. <i>Advanced Materials</i> , 2018 , 30, e1801401	24	106
71	Manipulating the Hysteresis in Poly(vinyl alcohol)-Dielectric Organic Field-Effect Transistors Toward Memory Elements. <i>Advanced Functional Materials</i> , 2013 , 23, 4206-4214	15.6	98
70	High voltage and efficient bilayer heterojunction solar cells based on an organic-inorganic hybrid perovskite absorber with a low-cost flexible substrate. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 6033-40	3.6	79
69	Ultrafast Dynamics of Hole Injection and Recombination in Organometal Halide Perovskite Using Nickel Oxide as p-Type Contact Electrode. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1096-101	6.4	78
68	Femtosecond excitonic relaxation dynamics of perovskite on mesoporous films of Al ₂ O ₃ and NiO nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 9339-42	16.4	54
67	Oxidized Ni/Au Transparent Electrode in Efficient CH ₃ NH ₃ PbI ₃ Perovskite/Fullerene Planar Heterojunction Hybrid Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 3290-7	24	50

66	Sulfonated poly(diphenylamine) as a novel hole-collecting layer in polymer photovoltaic cells. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4478		50
65	An ionic terfluorene derivative for saturated deep-blue solid state light-emitting electrochemical cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4175		45
64	Lead-Free Antimony-Based Light-Emitting Diodes through the Vapor-Anion-Exchange Method. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35088-35094	9.5	42
63	Organic-Oxide Cathode Buffer Layer in Fabricating High-Performance Polymer Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2008 , 18, 3036-3042	15.6	42
62	Low-Pressure Hybrid Chemical Vapor Growth for Efficient Perovskite Solar Cells and Large-Area Module. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500849	4.6	37
61	Highly stable perovskite solar cells with all-inorganic selective contacts from microwave-synthesized oxide nanoparticles. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 25485-25493	13	35
60	Enhanced performance of polymer solar cells using solution-processed tetra-n-alkyl ammonium bromides as electron extraction layers. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2582	13	34
59	Conversion efficiency improvement of inverted CH ₃ NH ₃ PbI ₃ perovskite solar cells with room temperature sputtered ZnO by adding the C60 interlayer. <i>Applied Physics Letters</i> , 2015 , 107, 253301	3.4	34
58	Synergistic Reinforcement of Built-In Electric Fields for Highly Efficient and Stable Perovskite Photovoltaics. <i>Advanced Functional Materials</i> , 2020 , 30, 1909755	15.6	29
57	Self-assembled monolayer-modified Ag anode for top-emitting polymer light-emitting diodes. <i>Applied Physics Letters</i> , 2006 , 89, 233513	3.4	29
56	The Roles of Poly(Ethylene Oxide) Electrode Buffers in Efficient Polymer Photovoltaics. <i>Advanced Energy Materials</i> , 2011 , 1, 1192-1198	21.8	28
55	Lead-Free Organic-Perovskite Hybrid Quantum Wells for Highly Stable Light-Emitting Diodes. <i>ACS Nano</i> , 2021 , 15, 6316-6325	16.7	28
54	Low-Pressure Vapor-Assisted Solution Process for Thiocyanate-Based Pseudohalide Perovskite Solar Cells. <i>ChemSusChem</i> , 2016 , 9, 2620-2627	8.3	26
53	Research Update: Hybrid organic-inorganic perovskite (HOIP) thin films and solar cells by vapor phase reaction. <i>APL Materials</i> , 2016 , 4, 091509	5.7	26
52	Perovskite-Based Solar Cells With Nickel-Oxidized Nickel Oxide Hole Transfer Layer. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 1590-1595	2.9	23
51	Single-Layered Hybrid DBPPV-CdSe/ZnS Quantum-Dot Light-Emitting Diodes. <i>IEEE Photonics Technology Letters</i> , 2008 , 20, 282-284	2.2	22
50	Magnetoconductance responses in organic charge-transfer-complex molecules. <i>Applied Physics Letters</i> , 2011 , 99, 073307	3.4	21
49	Large-area electrospray-deposited nanocrystalline Cu ₂ O hole transport layer for perovskite solar cells. <i>RSC Advances</i> , 2017 , 7, 46651-46656	3.7	20

- 48 Modulations of photoinduced magnetoconductance for polymer diodes. *Applied Physics Letters*, **2008**, 92, 153303 3.4 20
- 47 Benzo[k]fluoranthene-based linear acenes for efficient deep blue organic light-emitting devices. *Journal of Materials Chemistry*, **2012**, 22, 11032 18
- 46 White-emissive tandem-type hybrid organic/polymer diodes with (0.33, 0.33) chromaticity coordinates. *Optics Express*, **2009**, 17, 21205-15 3.3 18
- 45 The polymer gate dielectrics and source-drain electrodes on n-type pentacene-based organic field-effect transistors. *Organic Electronics*, **2010**, 11, 1613-1619 3.5 18
- 44 Selective manipulation of microparticles using polymer-based optically induced dielectrophoretic devices. *Applied Physics Letters*, **2010**, 96, 113302 3.4 16
- 43 Influence of polymer gate dielectrics on n-channel conduction of pentacene-based organic field-effect transistors. *Journal of Applied Physics*, **2007**, 101, 124505 2.5 16
- 42 Pseudo-Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2021**, 11, 2100818 21.8 16
- 41 Enhancement of Inverted Polymer Solar Cells Performances Using Cetyltrimethylammonium-Bromide Modified ZnO. *Materials*, **2018**, 11, 3.5 16
- 40 Perovskite-based solar cells with inorganic inverted hybrid planar heterojunction structure. *AIP Advances*, **2018**, 8, 015109 1.5 15
- 39 The triplet-triplet annihilation process of triplet to singlet excitons to fluorescence in polymer light-emitting diodes. *Organic Electronics*, **2018**, 62, 505-510 3.5 15
- 38 Phase formation, morphology evolution and tunable bandgap of Sn_{1-x}Sb_xSe nanocrystals. *CrystEngComm*, **2014**, 16, 1786-1792 3.3 15
- 37 Improve Hole Collection by Interfacial Chemical Redox Reaction at a Mesoscopic NiO/CH₃NH₃PbI₃ Heterojunction for Efficient Photovoltaic Cells. *Advanced Materials Interfaces*, **2016**, 3, 1600135 4.6 14
- 36 Antagonistic responses between magnetoconductance and magnetoelectroluminescence in polymer light-emitting diodes. *Organic Electronics*, **2013**, 14, 1376-1382 3.5 13
- 35 The metal interlayer in the charge generation layer of tandem organic light-emitting diodes. *Journal of Applied Physics*, **2013**, 114, 154512 2.5 13
- 34 Poly(ethylene oxide)-functionalized Al cathodes of tunable electron-injection capabilities for efficient polymer light-emitting diodes. *Journal of Materials Chemistry*, **2011**, 21, 18840 13
- 33 Electrospray technique in fabricating perovskite-based hybrid solar cells under ambient conditions. *RSC Advances*, **2017**, 7, 10985-10991 3.7 12
- 32 Robust and Recyclable Substrate Template with an Ultrathin Nanoporous Counter Electrode for Organic-Hole-Conductor-Free Monolithic Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 41845-41854 9.5 12
- 31 Upconversion Plasmonic Lasing from an Organolead Trihalide Perovskite Nanocrystal with Low Threshold. *ACS Photonics*, **2021**, 8, 335-342 6.3 10

30	Efficient CH ₃ NH ₃ PbI ₃ perovskite/fullerene planar heterojunction hybrid solar cells with oxidized Ni/Au/Cu transparent electrode. <i>Applied Physics Letters</i> , 2018 , 112, 071103	3.4	9
29	Roller-Induced Bundling of Long Silver Nanowire Networks for Strong Interfacial Adhesion, Highly Flexible, Transparent Conductive Electrodes. <i>Scientific Reports</i> , 2017 , 7, 16662	4.9	9
28	Significance of ions with an ordered arrangement for enhancing the electron injection/extraction in polymer optoelectronic devices. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 4805-4811	7.1	8
27	Halide perovskite materials and devices. <i>MRS Bulletin</i> , 2020 , 45, 427-430	3.2	7
26	The magneto conductance responses in polymer photovoltaic devices. <i>Organic Electronics</i> , 2010 , 11, 677-685	3.5	7
25	Role of self-assembled tetraoctylammonium bromide on various conjugated polymers in polymer light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 272-276	7.1	6
24	Magnetoconductance responses of triplet polaron pair charge reaction in hyperfine coupling regime. <i>Applied Physics Letters</i> , 2013 , 103, 253304	3.4	6
23	Improvement efficiency of perovskite solar cells by hybrid electrospray and vapor-assisted solution technology. <i>Organic Electronics</i> , 2018 , 57, 221-225	3.5	5
22	Interfacial engineering of ZnO surface modified with poly-vinylpyrrolidone and p-aminobenzoic acid for high-performance perovskite solar cells. <i>Materials Chemistry and Physics</i> , 2018 , 219, 90-95	4.4	5
21	An ambipolar to n-type transformation in pentacene-based organic field-effect transistors. <i>Organic Electronics</i> , 2011 , 12, 509-515	3.5	5
20	Identifying the magnetoconductance responses by the induced charge transfer complex states in pentacene-based diodes. <i>Applied Physics Letters</i> , 2012 , 101, 053307	3.4	5
19	Low-temperature processed bipolar metal oxide charge transporting layers for highly efficient perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 221, 110870	6.4	5
18	Amide-Functionalized Small Molecules as Solution-Processed Electron Injection Layers in Highly Efficient Polymer Light-Emitting Diodes. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500621	4.6	4
17	Efficient inverted polymer solar cells via pyridine-based organic molecules as interfacial modification layer on sol-gel zinc oxide surface. <i>Organic Electronics</i> , 2018 , 63, 93-97	3.5	4
16	Improved conversion efficiency of perovskite solar cells converted from thermally deposited lead iodide with dimethyl sulfoxide-treated poly(3,4-ethylenedioxythiophene) poly(styrene sulfonate). <i>Organic Electronics</i> , 2019 , 73, 266-272	3.5	3
15	Modulating the line shape of magnetoconductance by varying the charge injection in polymer light-emitting diodes. <i>AIP Advances</i> , 2018 , 8, 025209	1.5	3
14	Manipulation of Biosamples and Microparticles using Optical Images on Polymer Devices 2009 ,		3
13	Effects of Choline Chloride in Lead Bromide Layer and Methylammonium Bromide Precursor on Perovskite Conversion and Optoelectronic Properties of Perovskite-Based Light-Emitting Diodes. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 2035-2043	4	3

12	High-Performance Perovskite-Based Light-Emitting Diodes from the Conversion of Amorphous Spin-Coated Lead Bromide with Phenethylamine Doping. <i>ACS Omega</i> , 2020 , 5, 8697-8706	3.9	3
11	The impact at polar solvent treatment on p-contact layers (PEDOT:PSS or NiOx) of hybrid perovskite solar cells. <i>Organic Electronics</i> , 2019 , 73, 273-278	3.5	2
10	Magnetic field effect of the singlet fission reaction in tetracene-based diodes. <i>Organic Electronics</i> , 2018 , 56, 11-15	3.5	2
9	Modulations in line shapes of magnetoconductance curves for diodes of pentacene:fullerene charge transfer complexes. <i>Organic Electronics</i> , 2014 , 15, 3076-3081	3.5	2
8	The origins in the transformation of ambipolar to n-type pentacene-based organic field-effect transistors. <i>Organic Electronics</i> , 2014 , 15, 1759-1766	3.5	2
7	Optically-induced dielectrophoresis using polymer materials for biomedical applications 2009 ,		2
6	Conversion efficiency enhancement of methylammonium lead triiodide perovskite solar cells converted from thermally deposited lead iodide via thin methylammonium iodide interlayer. <i>Organic Electronics</i> , 2020 , 82, 105713	3.5	1
5	Switch the n-type to ambipolar transfer characteristics by illumination in n-type pentacene-based organic field-effect transistors. <i>Organic Electronics</i> , 2014 , 15, 3805-3810	3.5	1
4	Role of Solution-Processable Polyethylenimine Electrode Interlayer in Fabricating Air-Stable Polymer Light-Emitting Diodes. <i>Israel Journal of Chemistry</i> , 2014 , 54, 935-941	3.4	1
3	Characterize and Retard the Impact of the Bias-Induced Mobile Ions in CH ₃ NH ₃ PbBr ₃ Perovskite Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2022 , 10, 2101439	8.1	1
2	Mapping Highly Efficient Mixed-cation Pseudohalide-perovskite Solar Cells with a Scanning Transmission X-ray Microscope. <i>Microscopy and Microanalysis</i> , 2018 , 24, 462-463	0.5	
1	Doping of phthalocyanine films: structural reorganization versus acceptor effect. <i>Journal of Materials Science: Materials in Electronics</i> , 2008 , 19, 500-504	2.1	