

Tae-Hee Han

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/12073197/publications.pdf>

Version: 2024-02-01

55
papers

6,347
citations

87888

38
h-index

155660

55
g-index

57
all docs

57
docs citations

57
times ranked

8957
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering electrodes and metal halide perovskite materials for flexible/stretchable perovskite solar cells and light-emitting diodes. <i>Energy and Environmental Science</i> , 2021, 14, 2009-2035.	30.8	46
2	Perovskite Light-Emitting Diodes: Surface 2D/Bulk 3D Heterophased Perovskite Nanograins for Long-Term Stable Light-Emitting Diodes (<i>Adv. Mater.</i> 1/2020). <i>Advanced Materials</i> , 2020, 32, 2070007.	21.0	3
3	Surface 2D/Bulk 3D Heterophased Perovskite Nanograins for Long-Term Stable Light-Emitting Diodes. <i>Advanced Materials</i> , 2020, 32, e1905674.	21.0	59
4	Hermetic seal for perovskite solar cells: An improved plasma enhanced atomic layer deposition encapsulation. <i>Nano Energy</i> , 2020, 69, 104375.	16.0	78
5	Molecular Interaction Regulates the Performance and Longevity of Defect Passivation for Metal Halide Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 20071-20079.	13.7	145
6	Solid-phase hetero epitaxial growth of Γ -phase formamidinium perovskite. <i>Nature Communications</i> , 2020, 11, 5514.	12.8	71
7	Molecular-Scale Strategies to Achieve High Efficiency and Low Efficiency Roll-off in Simplified Solution-Processed Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2020, 30, 2005292.	14.9	21
8	Characterizing the Efficiency of Perovskite Solar Cells and Light-Emitting Diodes. <i>Joule</i> , 2020, 4, 1206-1235.	24.0	53
9	Efficient Flexible Inorganic Perovskite Light-Emitting Diodes Fabricated with CsPbBr_3 Emitters Prepared via Low-Temperature in Situ Dynamic Thermal Crystallization. <i>Nano Letters</i> , 2020, 20, 4673-4680.	9.1	55
10	A Polymerization-Assisted Grain Growth Strategy for Efficient and Stable Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e1907769.	21.0	161
11	Hybrid Integrated Photomedical Devices for Wearable Vital Sign Tracking. <i>ACS Sensors</i> , 2020, 5, 1582-1588.	7.8	14
12	High Performance Indium-Gallium-Zinc Oxide Thin Film Transistor via Interface Engineering. <i>Advanced Functional Materials</i> , 2020, 30, 2003285.	14.9	33
13	A 2D Titanium Carbide MXene Flexible Electrode for High-Efficiency Light-Emitting Diodes. <i>Advanced Materials</i> , 2020, 32, e2000919.	21.0	122
14	Steric Impediment of Ion Migration Contributes to Improved Operational Stability of Perovskite Solar Cells. <i>Advanced Materials</i> , 2020, 32, e1906995.	21.0	142
15	A Small Molecule Charge Driver enables Perovskite Quantum Dot Solar Cells with Efficiency Approaching 13%. <i>Advanced Materials</i> , 2019, 31, e1900111.	21.0	92
16	Perovskite-polymer composite cross-linker approach for highly-stable and efficient perovskite solar cells. <i>Nature Communications</i> , 2019, 10, 520.	12.8	405
17	Ideal conducting polymer anode for perovskite light-emitting diodes by molecular interaction decoupling. <i>Nano Energy</i> , 2019, 60, 324-331.	16.0	28
18	Efficient Perovskite Light-Emitting Diodes Using Polycrystalline Core-Shell Mimicked Nanograins. <i>Advanced Functional Materials</i> , 2019, 29, 1902017.	14.9	76

#	ARTICLE	IF	CITATIONS
19	Interface and Defect Engineering for Metal Halide Perovskite Optoelectronic Devices. <i>Advanced Materials</i> , 2019, 31, e1803515.	21.0	315
20	Vapor-Assisted Ex-Situ Doping of Carbon Nanotube toward Efficient and Stable Perovskite Solar Cells. <i>Nano Letters</i> , 2019, 19, 2223-2230.	9.1	72
21	Solution-Processed n-Type Graphene Doping for Cathode in Inverted Polymer Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 4874-4881.	8.0	24
22	Tuning Molecular Interactions for Highly Reproducible and Efficient Formamidinium Perovskite Solar Cells via Adduct Approach. <i>Journal of the American Chemical Society</i> , 2018, 140, 6317-6324.	13.7	338
23	Extremely stable graphene electrodes doped with macromolecular acid. <i>Nature Communications</i> , 2018, 9, 2037.	12.8	96
24	2D perovskite stabilized phase-pure formamidinium perovskite solar cells. <i>Nature Communications</i> , 2018, 9, 3021.	12.8	575
25	Polymeric acid-doped transparent carbon nanotube electrodes for organic solar cells with the longest doping durability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 14553-14559.	10.3	60
26	Efficient Flexible Organic/Inorganic Hybrid Perovskite Light-Emitting Diodes Based on Graphene Anode. <i>Advanced Materials</i> , 2017, 29, 1605587.	21.0	200
27	Graphene-based flexible electronic devices. <i>Materials Science and Engineering Reports</i> , 2017, 118, 1-43.	31.8	194
28	Universal high work function flexible anode for simplified ITO-free organic and perovskite light-emitting diodes with ultra-high efficiency. <i>NPG Asia Materials</i> , 2017, 9, e411-e411.	7.9	60
29	Conducting Polymers as Anode Buffer Materials in Organic and Perovskite Optoelectronics. <i>Advanced Optical Materials</i> , 2017, 5, 1600512.	7.3	63
30	Versatile p-Type Chemical Doping to Achieve Ideal Flexible Graphene Electrodes. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 6197-6201.	13.8	78
31	Scalable Noninvasive Organic Fiber Lithography for Large-Area Optoelectronics. <i>Advanced Optical Materials</i> , 2016, 4, 967-972.	7.3	13
32	Versatile p-Type Chemical Doping to Achieve Ideal Flexible Graphene Electrodes. <i>Angewandte Chemie</i> , 2016, 128, 6305-6309.	2.0	8
33	Controlled surface oxidation of multi-layered graphene anode to increase hole injection efficiency in organic electronic devices. <i>2D Materials</i> , 2016, 3, 014003.	4.4	12
34	Approaching ultimate flexible organic light-emitting diodes using a graphene anode. <i>NPG Asia Materials</i> , 2016, 8, e303-e303.	7.9	55
35	Synergetic electrode architecture for efficient graphene-based flexible organic light-emitting diodes. <i>Nature Communications</i> , 2016, 7, 11791.	12.8	163
36	Ultrahigh-efficiency solution-processed simplified small-molecule organic light-emitting diodes using universal host materials. <i>Science Advances</i> , 2016, 2, e1601428.	10.3	122

#	ARTICLE	IF	CITATIONS
37	OLEDs: Scalable Noninvasive Organic Fiber Lithography for Large-Area Optoelectronics (Advanced) Tj ETQq1 1 0.784314 rgBT /Overlock	7.3	1
38	Synergetic Influences of Mixed-Host Emitting Layer Structures and Hole Injection Layers on Efficiency and Lifetime of Simplified Phosphorescent Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 6152-6163.	8.0	43
39	Improving the Efficiency of Flexible Organic Light-emitting Diodes via Alternating High- and Low-index Layers. , 2016, , .		1
40	Flexible Lamination Encapsulation. Advanced Materials, 2015, 27, 4308-4314.	21.0	61
41	Flexible Encapsulation: Flexible Lamination Encapsulation (Adv. Mater. 29/2015). Advanced Materials, 2015, 27, 4387-4387.	21.0	2
42	Elucidating the Crucial Role of Hole Injection Layer in Degradation of Organic Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2015, 7, 3117-3125.	8.0	59
43	Improvement of work function and hole injection efficiency of graphene anode using CHF ₃ plasma treatment. 2D Materials, 2015, 2, 014002.	4.4	17
44	Flexible transparent electrodes for organic light-emitting diodes. Journal of Information Display, 2015, 16, 71-84.	4.0	43
45	Flexible organic light-emitting diodes for solid-state lighting. Journal of Photonics for Energy, 2015, 5, 053599.	1.3	34
46	Polyethylene Imine as an Ideal Interlayer for Highly Efficient Inverted Polymer Light-Emitting Diodes. Advanced Functional Materials, 2014, 24, 3808-3814.	14.9	196
47	A systematic identification of efficiency enrichment between thiazole and benzothiazole based yellow iridium(III) complexes. Journal of Materials Chemistry C, 2014, 2, 9398-9405.	5.5	22
48	An Easy Route to Red Emitting Homoleptic Ir ^{III} Complex for Highly Efficient Solution-Processed Phosphorescent Organic Light-Emitting Diodes. Chemistry - A European Journal, 2014, 20, 8260-8264.	3.3	38
49	Organic solar cells using CVD-grown graphene electrodes. Nanotechnology, 2014, 25, 014012.	2.6	81
50	Extremely efficient flexible organic light-emitting diodes with modified graphene anode. Nature Photonics, 2012, 6, 105-110.	31.4	1,272
51	Molecularly Controlled Interfacial Layer Strategy Toward Highly Efficient Simple-Structured Organic Light-Emitting Diodes. Advanced Materials, 2012, 24, 1487-1493.	21.0	92
52	Graphenes Converted from Polymers. Journal of Physical Chemistry Letters, 2011, 2, 493-497.	4.6	158
53	Polyaniline-Based Conducting Polymer Compositions with a High Work Function for Hole-Injection Layers in Organic Light-Emitting Diodes: Formation of Ohmic Contacts. ChemSusChem, 2011, 4, 363-368.	6.8	49
54	Inside Cover: Polyaniline-Based Conducting Polymer Compositions with a High Work Function for Hole-Injection Layers in Organic Light-Emitting Diodes: Formation of Ohmic Contacts (ChemSusChem) Tj ETQq0 0 0.8gBT /Overlock 10 T		

#	ARTICLE	IF	CITATIONS
55	Soluble Self-Doped Conducting Polymer Compositions with Tunable Work Function as Hole Injection/Extraction Layers in Organic Optoelectronics. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 6274-6277.	13.8	95