

Il Jeon

List of Publications by Year in Descending Order

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Version: 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77
papers

1,835
citations

26
h-index

40
g-index

85
ext. papers

2,256
ext. citations

10.1
avg, IF

5.04
L-index

#	Paper	IF	Citations
77	Multi-Functional MoO ₃ Doping of Carbon-Nanotube Top Electrodes for Highly Transparent and Efficient Semi-Transparent Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2022 , 2101595	4.6	3
76	Scalable eDIPS-based single-walled carbon nanotube films for conductive transparent electrodes in organic solar cells. <i>Applied Physics Express</i> , 2022 , 15, 046505	2.4	0
75	Genetic Manipulation of M13 Bacteriophage for Enhancing the Efficiency of Virus-Inoculated Perovskite Solar Cells with a Certified Efficiency of 22.3% (Adv. Energy Mater. 38/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170150	21.8	
74	Abnormally High-Lithium Storage in Pure Crystalline C ₆₀ Nanoparticles (Adv. Mater. 43/2021). <i>Advanced Materials</i> , 2021 , 33, 2170343	24	0
73	Role and Contribution of Polymeric Additives in Perovskite Solar Cells: Crystal Growth Templates and Grain Boundary Passivators. <i>Solar Rrl</i> , 2021 , 5, 2000783	7.1	15
72	Strong dark current suppression in flexible organic photodetectors by carbon nanotube transparent electrodes. <i>Nano Today</i> , 2021 , 37, 101081	17.9	20
71	Controlled Removal of Surfactants from Double-Walled Carbon Nanotubes for Stronger p-Doping Effect and Its Demonstration in Perovskite Solar Cells.. <i>Small Methods</i> , 2021 , 5, e2100080	12.8	4
70	One-step direct oxidation of fullerene-fused alkoxy ethers to ketones for evaporable fullerene derivatives. <i>Communications Chemistry</i> , 2021 , 4,	6.3	4
69	Carbon Nanotube Mask Filters and Their Hydrophobic Barrier and Hyperthermic Antiviral Effects on SARS-CoV-2. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8135-8144	5.6	7
68	High quantum efficiency and stability of biohybrid quantum dots nanojunctions in bacteriophage-constructed perovskite. <i>Materials Today Nano</i> , 2021 , 13, 100099	9.7	3
67	M13 bacteriophage-templated gold nanowires as stretchable electrodes in perovskite solar cells. <i>Materials Advances</i> , 2021 , 2, 488-496	3.3	4
66	Foldable Perovskite Solar Cells Using Carbon Nanotube-Embedded Ultrathin Polyimide Conductor. <i>Advanced Science</i> , 2021 , 8, 2004092	13.6	26
65	A Facile and Effective Ozone Exposure Method for Wettability and Energy-Level Tuning of Hole-Transporting Layers in Lead-Free Tin Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42935-42943	9.5	4
64	Environmentally Compatible Lead-Free Perovskite Solar Cells and Their Potential as Light Harvesters in Energy Storage Systems. <i>Nanomaterials</i> , 2021 , 11,	5.4	4
63	Genetic Manipulation of M13 Bacteriophage for Enhancing the Efficiency of Virus-Inoculated Perovskite Solar Cells with a Certified Efficiency of 22.3%. <i>Advanced Energy Materials</i> , 2021 , 11, 2101221	21.8	5
62	Abnormally High-Lithium Storage in Pure Crystalline C Nanoparticles. <i>Advanced Materials</i> , 2021 , 33, e2104763	24.7	1
61	Carbon nanotubes to outperform metal electrodes in perovskite solar cells via dopant engineering and hole-selectivity enhancement. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 11141-11147	13	28

60	Gap Plasmon of Virus-Templated Biohybrid Nanostructures Uplifting the Performance of Organic Optoelectronic Devices. <i>Advanced Optical Materials</i> , 2020 , 8, 1902080	8.1	8
59	MoS ₂ -carbon nanotube heterostructure as efficient hole transporters and conductors in perovskite solar cells. <i>Applied Physics Express</i> , 2020 , 13, 075009	2.4	7
58	Polyaromatic Nanotweezers on Semiconducting Carbon Nanotubes for the Growth and Interfacing of Lead Halide Perovskite Crystal Grains in Solar Cells. <i>Chemistry of Materials</i> , 2020 , 32, 5125-5133	9.6	29
57	Silicon Solar Cells: Multifunctional Effect of p-Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotube-Based Silicon Solar Cells (Adv. Energy Mater. 1/2020). <i>Advanced Energy Materials</i> , 2020 , 10, 2070005	21.8	1
56	Multifunctional Effect of p-Doping, Antireflection, and Encapsulation by Polymeric Acid for High Efficiency and Stable Carbon Nanotube-Based Silicon Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1902389	21.8	28
55	Superior Noise Suppression, Response Time, and Device Stability of Non-Fullerene System over Fullerene Counterpart in Organic Photodiode. <i>Advanced Functional Materials</i> , 2020 , 30, 2001402	15.6	21
54	Denatured M13 Bacteriophage-Templated Perovskite Solar Cells Exhibiting High Efficiency. <i>Advanced Science</i> , 2020 , 7, 2000782	13.6	15
53	Carbon Nanotube Electrode-Based Perovskite/Silicon Tandem Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 2000353	7.1	8
52	Recent progress in porphyrin- and phthalocyanine-containing perovskite solar cells.. <i>RSC Advances</i> , 2020 , 10, 32678-32689	3.7	21
51	Investigation of charge interaction between fullerene derivatives and single-walled carbon nanotubes. <i>Informa Materly</i> , 2019 , 1, 559-570	23.1	15
50	Highly Selective and Scalable Fullerene-Cation-Mediated Synthesis Accessing Cyclo[60]fullerenes with Five-Membered Carbon Ring and Their Application to Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2019 , 31, 8432-8439	9.6	27
49	Li@C endohedral fullerene as a supraatomic dopant for C electron-transporting layers promoting the efficiency of perovskite solar cells. <i>Chemical Communications</i> , 2019 , 55, 11837-11839	5.8	20
48	Controlled Redox of Lithium-Ion Endohedral Fullerene for Efficient and Stable Metal Electrode-Free Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16553-16558	16.4	35
47	Formation of environmentally stable hole-doped graphene films with instantaneous and high-density carrier doping via a boron-based oxidant. <i>Npj 2D Materials and Applications</i> , 2019 , 3,	8.8	16
46	High-Performance Solution-Processed Double-Walled Carbon Nanotube Transparent Electrode for Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019 , 9, 1901204	21.8	64
45	Single-Walled Carbon Nanotubes in Solar Cells. <i>Topics in Current Chemistry Collections</i> , 2019 , 271-298	1.8	15
44	Semiconducting carbon nanotubes as crystal growth templates and grain bridges in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 12987-12992	13	44
43	Stable and Reproducible 2D/3D Formamidinium/Lead/Iodide Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019 , 2, 2486-2493	6.1	42

42	Solar Cells: Single-Walled Carbon Nanotubes in Emerging Solar Cells: Synthesis and Electrode Applications (Adv. Energy Mater. 23/2019). <i>Advanced Energy Materials</i> , 2019 , 9, 1970091	21.8	0
41	High-Working-Pressure Sputtering of ZnO for Stable and Efficient Perovskite Solar Cells. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 389-396	4	13
40	Single-Walled Carbon Nanotubes in Emerging Solar Cells: Synthesis and Electrode Applications. <i>Advanced Energy Materials</i> , 2019 , 9, 1801312	21.8	57
39	Vapor-Assisted Ex-Situ Doping of Carbon Nanotube toward Efficient and Stable Perovskite Solar Cells. <i>Nano Letters</i> , 2019 , 19, 2223-2230	11.5	43
38	Engineering high-performance and air-stable PBTZT-stat-BDTP-8:PC61BM/PC71BM organic solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 5746-5751	13	19
37	Anthracene-Based Organic Small-Molecule Electron-Injecting Material for Inverted Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 11810-11817	9.5	6
36	Single-Walled Carbon Nanotubes in Solar Cells. <i>Topics in Current Chemistry</i> , 2018 , 376, 4	7.2	42
35	Carbon-sandwiched perovskite solar cell. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1382-1389	13	77
34	Lithium-Ion Endohedral Fullerene (Li ⁺ @C ₆₀) Dopants in Stable Perovskite Solar Cells Induce Instant Doping and Anti-Oxidation. <i>Angewandte Chemie</i> , 2018 , 130, 4697-4701	3.6	13
33	Lithium-Ion Endohedral Fullerene (Li @ C) Dopants in Stable Perovskite Solar Cells Induce Instant Doping and Anti-Oxidation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4607-4611	16.4	69
32	Non-doped and unsorted single-walled carbon nanotubes as carrier-selective, transparent, and conductive electrode for perovskite solar cells. <i>MRS Communications</i> , 2018 , 8, 1058-1063	2.7	10
31	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	13	46
30	Achieving High Efficiency in Solution-Processed Perovskite Solar Cells Using C/C Mixed Fullerenes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39590-39598	9.5	45
29	Fullerene-Cation-Mediated Noble-Metal-Free Direct Introduction of Functionalized Aryl Groups onto [60]Fullerene. <i>Organic Letters</i> , 2018 , 20, 3372-3376	6.2	27
28	Polymer Fullerene Solar Cells 2017 , 1-21		1
27	Scalable and Solid-State Redox Functionalization of Transparent Single-Walled Carbon Nanotube Films for Highly Efficient and Stable Solar Cells. <i>Advanced Energy Materials</i> , 2017 , 7, 1700449	21.8	48
26	Indium Tin Oxide-Free Small Molecule Organic Solar Cells Using Single-Walled Carbon Nanotube Electrodes. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, M3181-M3184	2	13
25	An efficient organic solvent-free solution-processing strategy for high-mobility metal chalcogenide film growth. <i>Green Chemistry</i> , 2017 , 19, 946-951	10	7

24	Perovskite Solar Cells Using Carbon Nanotubes Both as Cathode and as Anode. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 25743-25749	3.8	69
23	Comparative density functional theory-density functional tight binding study of fullerene derivatives: effects due to fullerene size, addends, and crystallinity on band structure, charge transport and optical properties. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 28330-28343	3.6	20
22	Carbon Nanotubes versus Graphene as Flexible Transparent Electrodes in Inverted Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5395-5401	6.4	107
21	Highly Conductive and Transparent Large-Area Bilayer Graphene Realized by MoCl Intercalation. <i>Advanced Materials</i> , 2017 , 29, 1702141	24	34
20	Regiocontrolled Electrosynthesis of [60]Fullerene Bisadducts: Photovoltaic Performance and Crystal Structures of C ₆₀ -Quinodimethane Bisadducts. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8676-8685 ^{4.2}	4.2	12
19	Enhancement of Low-field Magnetoresistance in Self-Assembled Epitaxial La _{0.67} Ca _{0.33} MnO ₃ :NiO and La _{0.67} Ca _{0.33} MnO ₃ :Co ₃ O ₄ Composite Films via Polymer-Assisted Deposition. <i>Scientific Reports</i> , 2016 , 6, 26390	4.9	14
18	Room temperature-processed inverted organic solar cells using high working-pressure-sputtered ZnO films. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18763-18768	13	12
17	Metal-electrode-free Window-like Organic Solar Cells with p-Doped Carbon Nanotube Thin-film Electrodes. <i>Scientific Reports</i> , 2016 , 6, 31348	4.9	55
16	Stability of diketopyrrolopyrrole small-molecule inverted organic solar cells. <i>Organic Electronics</i> , 2016 , 35, 193-198	3.5	10
15	Enhancement of Open-Circuit Voltage by Using the 58-Bisylmethyl Fullerenes in Small-Molecule Organic Solar Cells. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 1268-72	4.5	10
14	Multifunctionalization of C ₇₀ at the two polar regions with a high regioselectivity via oxazolination and benzylation reactions. <i>Chemical Communications</i> , 2016 , 52, 5710-3	5.8	8
13	Indium-Free Inverted Organic Solar Cells Using Niobium-Doped Titanium Oxide with Integrated Dual Function of Transparent Electrode and Electron Transport Layer. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500341	6.4	6
12	Interface Engineering of Metal Oxides using Ammonium Anthracene in Inverted Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29866-29871	9.5	17
11	Direct and Dry Deposited Single-Walled Carbon Nanotube Films Doped with MoO(x) as Electron-Blocking Transparent Electrodes for Flexible Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7982-5	16.4	126
10	Single-Walled Carbon Nanotube Film as Electrode in Indium-Free Planar Heterojunction Perovskite Solar Cells: Investigation of Electron-Blocking Layers and Dopants. <i>Nano Letters</i> , 2015 , 15, 6665-71	11.5	151
9	Multilayered MoS ₂ nanoflakes bound to carbon nanotubes as electron acceptors in bulk heterojunction inverted organic solar cells. <i>Organic Electronics</i> , 2015 , 17, 275-280	3.5	20
8	Air-processed inverted organic solar cells utilizing a 2-aminoethanol-stabilized ZnO nanoparticle electron transport layer that requires no thermal annealing. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 18754-18760	13	29
7	Mixture of [60] and [70]PCBM giving morphological stability in organic solar cells. <i>Applied Physics Letters</i> , 2013 , 103, 073306	3.4	42

6	Stabilization of LCD devices via geometric alteration. <i>Applied Optics</i> , 2013 , 52, 1255-62	1.7	1
5	A New Optical Film with Antismudge Function and High Durability. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 122401	1.4	1
4	Utilization of Multifunctional Environment-Friendly Organic Dopants Inspired from Nature for Carbon Nanotube-Based Planar Heterojunction Silicon Solar Cells. <i>Advanced Energy and Sustainability Research</i> , 2100155	1.6	0
3	Large-Diameter Carbon Nanotube Transparent Conductor Overcoming Performance-Field Tradeoff. <i>Advanced Functional Materials</i> , 2103397	15.6	4
2	Accelerated Design of High-Efficiency Lead-Free Tin Perovskite Solar Cells via Machine Learning. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 1	3.8	0
1	Homogeneously Miscible Fullerene inducing Vertical Gradient in Perovskite Thin-Film toward Highly Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2200877	21.8	2