

Dong-Won Kang

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79
papers

825
citations

17
h-index

24
g-index

90
ext. papers

1,136
ext. citations

6.4
avg, IF

4.81
L-index

#	Paper	IF	Citations
79	Effects of ITO precursor thickness on transparent conductive Al doped ZnO film for solar cell applications. <i>Solar Energy Materials and Solar Cells</i> , 2011 , 95, 138-141	6.4	53
78	Improved interface of ZnO/CH ₃ NH ₃ PbI ₃ by a dynamic spin-coating process for efficient perovskite solar cells. <i>RSC Advances</i> , 2017 , 7, 19030-19038	3.7	42
77	Highly Efficient and Stable Sn-Rich Perovskite Solar Cells by Introducing Bromine. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22432-22439	9.5	36
76	Recent progress on cesium lead/tin halide-based inorganic perovskites for stable and efficient solar cells: A review. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 204, 110212	6.4	36
75	Two-step growth of CsPbI _{3-x} Br _x films employing dynamic CsBr treatment: toward all-inorganic perovskite photovoltaics with enhanced stability. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 18488-18498 ¹³		32
74	Golden Bristlegrass-Like Hierarchical Graphene Nanofibers Entangled with N-Doped CNTs Containing CoSe Nanocrystals at Each Node as Anodes for High-Rate Sodium-Ion Batteries. <i>Small</i> , 2020 , 16, e2003391	11	29
73	Water-resistant PEDOT:PSS hole transport layers by incorporating a photo-crosslinking agent for high-performance perovskite and polymer solar cells. <i>Nanoscale</i> , 2018 , 10, 13187-13193	7.7	28
72	Two-Dimensional WSe ₂ /MoS ₂ p-n Heterojunction-Based Transparent Photovoltaic Cell and Its Performance Enhancement by Fluoropolymer Passivation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 35972-35977	9.5	27
71	Multi-channel-contained few-layered MoSe ₂ nanosheet/N-doped carbon hybrid nanofibers prepared using diethylenetriamine as anodes for high-performance sodium-ion batteries. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 75, 100-107	6.3	26
70	Hierarchically Well-Developed Porous Graphene Nanofibers Comprising N-Doped Graphitic C-Coated Cobalt Oxide Hollow Nanospheres As Anodes for High-Rate Li-Ion Batteries. <i>Small</i> , 2020 , 16, e2002213	11	26
69	Al ₂ O ₃ antireflection layer between glass and transparent conducting oxide for enhanced light trapping in microcrystalline silicon thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 101, 22-25	6.4	24
68	Boosting the Conversion Efficiency Over 20% in MAPbI ₃ Perovskite Planar Solar Cells by Employing a Solution-Processed Aluminum-Doped Nickel Oxide Hole Collector. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22958-22970	9.5	20
67	Highly Transparent and High Haze Bilayer Al-Doped ZnO Thin Film Employing Oxygen-Controlled Seed Layer. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 031101	1.4	20
66	Effect of textured glass substrates coated with LPCVD-deposited SnO ₂ :F on amorphous silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 140, 126-133	6.4	18
65	Improving the performance and reliability of inverted planar perovskite solar cells with a carbon nanotubes/PEDOT:PSS hybrid hole collector. <i>Nanoscale</i> , 2017 , 9, 9754-9761	7.7	18
64	Effect of Ga Doping on Transparent and Conductive Al-Doped ZnO Films Prepared Using Magnetron Cosputtering. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 125801	1.4	18
63	Highly conductive GaN anti-reflection layer at transparent conducting oxide/Si interface for silicon thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 105, 317-321	6.4	17

62	PCBM-blended chlorobenzene hybrid anti-solvent engineering for efficient planar perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10143-10151	7.1	16
61	Carbon nanotubes embedded poly(3,4-ethylenedioxythiophene):poly(styrenesulfonate) hybrid hole collector for inverted planar perovskite solar cells. <i>Journal of Power Sources</i> , 2019 , 435, 226765	8.9	15
60	Characterization of fibrous gel polymer electrolyte for lithium polymer batteries with enhanced electrochemical properties. <i>Journal of Electroanalytical Chemistry</i> , 2016 , 775, 37-42	4.1	15
59	Mixed-halide Pb-Sn binary perovskite films with various Sn-content for Pb-reduced solar cells. <i>Materials Letters</i> , 2018 , 227, 311-314	3.3	15
58	Enhanced Device Performance with Passivation of the TiO Surface Using a Carboxylic Acid Fullerene Monolayer for a SnPb Perovskite Solar Cell with a Normal Planar Structure. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 17776-17782	9.5	14
57	Fibrous network of highly integrated carbon nanotubes/MoO ₃ composite bundles anchored with MoO ₃ nanoplates for superior lithium ion battery anodes. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 83, 438-448	6.3	14
56	Sequentially Vapor-Grown Hybrid Perovskite for Planar Heterojunction Solar Cells. <i>Nanoscale Research Letters</i> , 2018 , 13, 9	5	14
55	Boron and Aluminum Codoped ZnO Transparent Conducting Films with High Electrical Stability. <i>Journal of the Electrochemical Society</i> , 2011 , 159, H61-H65	3.9	14
54	Fabrication of nickel oxide composites with carbon nanotubes for enhanced charge transport in planar perovskite solar cells. <i>Applied Surface Science</i> , 2020 , 516, 146116	6.7	13
53	Solution-processed nickel oxide hole transport layer for highly efficient perovskite-based photovoltaics. <i>Ceramics International</i> , 2018 , 44, 9347-9352	5.1	13
52	Improving of the Photovoltaic Characteristics of Dye-Sensitized Solar Cells Using a Photoelectrode with Electrospun Porous TiO ₂ Nanofibers. <i>Nanomaterials</i> , 2019 , 9,	5.4	12
51	Stretchable electrolytes for stretchable/flexible energy storage systems [Recent developments. <i>Energy Storage Materials</i> , 2020 , 28, 315-324	19.4	11
50	Hierarchically porous nanofibers comprising multiple core-shell Co ₃ O ₄ @graphitic carbon nanoparticles grafted within N-doped CNTs as functional interlayers for excellent Li ⁺ batteries. <i>Chemical Engineering Journal</i> , 2021 , 426, 130805	14.7	11
49	Wide-bandgap p-type microcrystalline silicon oxycarbide using additional trimethylboron for silicon heterojunction solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2017 , 25, 384-389	6.8	9
48	Dynamic casting in combination with ramped annealing process for implementation of inverted planar Ag ₃ BiI ₆ rudorffite solar cells. <i>Journal of Power Sources</i> , 2020 , 453, 227903	8.9	9
47	Novel application of MgF ₂ as a back reflector in a-SiO _x :H thin-film solar cells. <i>Applied Physics Express</i> , 2014 , 7, 082302	2.4	9
46	An efficient and thermally stable interconnecting layer for tandem organic solar cells. <i>Solar Energy</i> , 2017 , 155, 552-560	6.8	9
45	Effect of crosslinkable sugar molecules on the physico-chemical and antioxidant properties of fish gelatin nanofibers. <i>Food Hydrocolloids</i> , 2021 , 111, 106259	10.6	9

44	Inorganic narrow bandgap CsPb _{0.4} Sn _{0.6} I _{2.4} Br _{0.6} perovskite solar cells with exceptional efficiency. <i>Nano Energy</i> , 2020 , 77, 105309	17.1	8
43	InGaP//GaAs//c-Si 3-junction solar cells employing spectrum-splitting system. <i>Progress in Photovoltaics: Research and Applications</i> , 2016 , 24, 1016-1023	6.8	7
42	All p-i-n hydrogenated amorphous silicon oxide thin film solar cells for semi-transparent solar cells. <i>Thin Solid Films</i> , 2018 , 662, 97-102	2.2	7
41	High-Performance Amorphous Silicon Thin Film Solar Cells Prepared at 100 °C: Toward Flexible Building-Integrated Photovoltaics. <i>Electronic Materials Letters</i> , 2019 , 15, 623-629	2.9	7
40	Freestanding flexible multilayered Sulfur/Carbon nanotubes for Lithium/Sulfur battery cathodes. <i>Energy</i> , 2020 , 212, 118779	7.9	7
39	Development of wide band gap p-a-SiO _x Cy:H using additional trimethylboron as carbon source gas. <i>Electronic Materials Letters</i> , 2016 , 12, 462-467	2.9	7
38	Methylammonium lead mixed halide films processed with a new composition for planar perovskite solar cells. <i>Applied Surface Science</i> , 2018 , 427, 421-426	6.7	6
37	Improved Stability in Perovskite Solar Cells by Solution-Processed Fluorocarbon Passivation. <i>IEEE Electron Device Letters</i> , 2018 , 39, 843-846	4.4	5
36	P/i interfacial engineering in semi-transparent silicon thin film solar cells for fabrication at a low temperature of 150 °C. <i>Current Applied Physics</i> , 2019 , 19, 1120-1126	2.6	5
35	Low-temperature-processed a-SiO _x :H/a-Si:H tandem cells for full spectrum solar cells. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 08KB02	1.4	5
34	Optimization of high potential cathode materials and lithium conducting hybrid solid electrolyte for high-voltage all-solid-state batteries. <i>Electrochimica Acta</i> , 2021 , 365, 137349	6.7	5
33	Light management of a-SiO _x :H thin film solar cells with hydrogen-reduced p+ buffer at TiO ₂ /p-layer interface. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 143, 296-301	6.4	4
32	Effect of TiO ₂ Antireflection Layer with Various Conductivities and Refractive Indices on Performance of Amorphous Silicon/Amorphous Silicon Germanium Tandem Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 10NB10	1.4	4
31	Performance improvement of amorphous silicon solar cell by SiO _x :H based multiple antireflection coatings. <i>Thin Solid Films</i> , 2016 , 616, 461-465	2.2	4
30	Adoption of wide-bandgap microcrystalline silicon oxide and dual buffers for semitransparent solar cells in building-integrated photovoltaic window system. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 1563-1569	9.1	3
29	Perovskite/polyethylene oxide composites: Toward perovskite solar cells without anti-solvent treatment. <i>Ceramics International</i> , 2019 , 45, 23399-23405	5.1	3
28	Numerical simulation of p-type diamond Schottky barrier diodes for high breakdown voltage. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 06GE09	1.4	3
27	Efficient light incoupling into silicon thin-film solar cells by anti-reflecting MgO/high-compact-AZO with air-side textured glass. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 485107	3	3

26	InGaP//GaAs//CIGS 3-junction spectrum-splitting solar cells with low-concentration ratio. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 1535-1540	1.6	3
25	Improving photovoltaic performance of CsPbBr ₃ perovskite solar cells by a solvent-assisted rinsing step. <i>Electrochimica Acta</i> , 2021 , 368, 137539	6.7	3
24	Growth Temperature Influence on Atomic-Layer-Deposited InO Thin Films and Their Application in Inorganic Perovskite Solar Cells. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
23	Cathode of Zn-Ni Layered Double Hydroxide Nanosheet Arrays Wrapped with a Porous NiMoS _x Shell and Anode of 3D Hierarchical Nitrogen-Doped Carbon for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021 , 4, 9166-9177	6.1	3
22	Phenylethylammonium-Formamidinium-Methylammonium Quasi-2D/3D Tin Wide-Bandgap Perovskite Solar Cell with Improved Efficiency and Stability. <i>Chemical Engineering Journal</i> , 2022 , 137388 ^{14.7}	14.7	3
21	Highly transparent Zn _{1-x} Mg _x O/ITO multilayer for window of thin film solar cells. <i>Current Applied Physics</i> , 2015 , 15, 1022-1026	2.6	2
20	Effects of helium concentration on microcrystalline silicon thin film solar cells deposited by atmospheric-pressure plasma deposition at 13.3 kPa. <i>Thin Solid Films</i> , 2018 , 650, 32-36	2.2	2
19	Porous nitrogen-doped graphene nanofibers comprising metal organic framework-derived hollow and ultrafine layered double metal oxide nanocrystals as high-performance anodes for lithium-ion batteries. <i>Journal of Power Sources</i> , 2022 , 523, 231030	8.9	2
18	A self-assembled hierarchical structure to keep the 3D crystal dimensionality in n-butylammonium cation-capped Pb _{1-x} Sn perovskites. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 27541-27550	13	2
17	Enhanced Electro-Optical Performance of Inorganic Perovskite/a-InGaZnO Phototransistors Enabled by Sn-Pb Binary Incorporation with a Selective Photonic Deactivation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 58038-58048	9.5	2
16	Highly Efficient and Reliable Semitransparent Perovskite Solar Cells via Top Electrode Engineering. <i>Advanced Functional Materials</i> , 2021 , 31, 2111760	15.6	2
15	Pentacene-assisted planarization of photo-active layers for high performance tandem organic photovoltaics. <i>Solar Energy</i> , 2018 , 163, 434-442	6.8	1
14	Amorphous solar cell on multilayer of SnO ₂ /ZnO TCO substrate for full spectrum splitting solar cell application. <i>Canadian Journal of Physics</i> , 2014 , 92, 917-919	1.1	1
13	Highly Transparent and High Haze ZnO:Al film For Front TCO of a-Si:H and μ c-Si:H Solar Cells by Controlling Oxygen Flow. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1153, 1		1
12	Semitransparent perovskite solar cells with exceptional efficiency and transmittance. <i>Applied Physics Express</i> , 2021 , 14, 126504	2.4	1
11	Low-Temperature Deposited Highly Flexible In ₂ S ₃ /ITO Transparent Conductive Electrode for Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2022 , 5, 234-248	6.1	1
10	Mixed Solvent Engineering for Morphology Optimization of the Electron Transport Layer in Perovskite Photovoltaics. <i>ACS Applied Energy Materials</i> , 2022 , 5, 387-396	6.1	1
9	Recent progress in quasi-two-dimensional and quantum dot perovskite light-emitting diodes harnessing the diverse effects of ligands: A review. <i>Nano Research</i> ,	10	1

8	Self-supported hierarchically porous 3D carbon nanofiber network comprising Ni/Co/NiCo ₂ O ₄ nanocrystals and hollow N-doped C nanocages as sulfur host for highly reversible LiS batteries. <i>Chemical Engineering Journal</i> , 2022 , 446, 137141	14.7	1
7	Stretchable self-charging energy integrated device of high storage efficiency. <i>Journal of Power Sources</i> , 2022 , 525, 231079	8.9	0
6	Multi-Scalable Grain Growth via Phenyl-C ₆₀ -Butyric Acid Methyl Ester Molecular Aggregation in Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5985-5994	6.1	0
5	Influence of an Amide-Functionalized Monomeric Unit on the Morphology and Electronic Properties of Non-Fullerene Polymer Solar Cells. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 1	3.8	0
4	Progress in a-SiO _x :H thin film solar cells with patterned MgF ₂ dielectric for top cell of multi-junction system. <i>Electronic Materials Letters</i> , 2016 , 12, 451-455	2.9	
3	The Positive Gate Bias Annealing Method for the Suppression of a Leakage Current in the SPC-Si TFT on a Glass Substrate. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1066, 1		
2	P-26: Thermally Annealed Asymmetric-Offset Polycrystalline Thin Film Transistor with Low Leakage. <i>Digest of Technical Papers SID International Symposium</i> , 2008 , 39, 1266	0.5	
1	P-25: Nanocrystalline Silicon Thin Film Transistor Fabricated without any Substrate Heating for a Flexible Display. <i>Digest of Technical Papers SID International Symposium</i> , 2008 , 39, 1262	0.5	