

Dong-Won Kang

List of Publications by Year in descending order

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89
papers

1,445
citations

304368

22
h-index

395343

33
g-index

90
all docs

90
docs citations

90
times ranked

1910
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved interface of ZnO/CH ₃ NH ₃ PbI ₃ by a dynamic spin-coating process for efficient perovskite solar cells. RSC Advances, 2017, 7, 19030-19038.	1.7	62
2	Golden Bristlegrass-Like Hierarchical Graphene Nanofibers Entangled with N-Doped CNTs Containing CoSe ₂ Nanocrystals at Each Node as Anodes for High-Rate Sodium-Ion Batteries. Small, 2020, 16, e2003391.	5.2	58
3	Effects of ITO precursor thickness on transparent conductive Al doped ZnO film for solar cell applications. Solar Energy Materials and Solar Cells, 2011, 95, 138-141.	3.0	57
4	Recent progress on cesium lead/tin halide-based inorganic perovskites for stable and efficient solar cells: A review. Solar Energy Materials and Solar Cells, 2020, 204, 110212.	3.0	56
5	Two-Dimensional WSe ₂ /MoS ₂ p-n Heterojunction-Based Transparent Photovoltaic Cell and Its Performance Enhancement by Fluoropolymer Passivation. ACS Applied Materials & Interfaces, 2018, 10, 35972-35977.	4.0	51
6	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-S batteries. Chemical Engineering Journal, 2021, 426, 130805.	6.6	49
7	Highly Efficient and Stable Sn-Rich Perovskite Solar Cells by Introducing Bromine. ACS Applied Materials & Interfaces, 2017, 9, 22432-22439.	4.0	47
8	Hierarchically Well-Developed Porous Graphene Nanofibers Comprising N-Doped Graphitic-Coated Cobalt Oxide Hollow Nanospheres As Anodes for High-Rate Li-Ion Batteries. Small, 2020, 16, e2002213.	5.2	46
9	Two-step growth of CsPbI _{3-x} Br _x films employing dynamic CsBr treatment: toward all-inorganic perovskite photovoltaics with enhanced stability. Journal of Materials Chemistry A, 2019, 7, 18488-18498.	5.2	43
10	Boosting the Conversion Efficiency Over 20% in MAPbI ₃ Perovskite Planar Solar Cells by Employing a Solution-Processed Aluminum-Doped Nickel Oxide Hole Collector. ACS Applied Materials & Interfaces, 2020, 12, 22958-22970.	4.0	42
11	Multi-channel-contained few-layered MoSe ₂ nanosheet/N-doped carbon hybrid nanofibers prepared using diethylenetriamine as anodes for high-performance sodium-ion batteries. Journal of Industrial and Engineering Chemistry, 2019, 75, 100-107.	2.9	39
12	Water-resistant PEDOT:PSS hole transport layers by incorporating a photo-crosslinking agent for high-performance perovskite and polymer solar cells. Nanoscale, 2018, 10, 13187-13193.	2.8	37
13	Effect of crosslinkable sugar molecules on the physico-chemical and antioxidant properties of fish gelatin nanofibers. Food Hydrocolloids, 2021, 111, 106259.	5.6	34
14	Fibrous network of highly integrated carbon nanotubes/MoO ₃ composite bundles anchored with MoO ₃ nanoplates for superior lithium ion battery anodes. Journal of Industrial and Engineering Chemistry, 2020, 83, 438-448.	2.9	33
15	Stretchable electrolytes for stretchable/flexible energy storage systems - Recent developments. Energy Storage Materials, 2020, 28, 315-324.	9.5	27
16	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. Journal of Power Sources, 2022, 523, 231030.	4.0	26
17	Al ₂ O ₃ antireflection layer between glass and transparent conducting oxide for enhanced light trapping in microcrystalline silicon thin film solar cells. Solar Energy Materials and Solar Cells, 2012, 101, 22-25.	3.0	25
18	Inorganic narrow bandgap CsPb _{0.4} Sn _{0.6} I _{2.4} Br _{0.6} perovskite solar cells with exceptional efficiency. Nano Energy, 2020, 77, 105309.	8.2	25

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19	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.	2.8	24
20	Enhanced Device Performance with Passivation of the TiO ₂ 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.	4.0	24
21	Effect of textured glass substrates coated with LPCVD-deposited SnO :F on amorphous silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 140, 126-133.	3.0	23
22	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 Li-S batteries. <i>Chemical Engineering Journal</i> , 2022, 446, 137141.	6.6	23
23	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.	0.8	22
24	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.	4.0	22
25	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.	3.1	22
26	Mixed-halide Pb-Sn binary perovskite films with various Sn-content for Pb-reduced solar cells. <i>Materials Letters</i> , 2018, 227, 311-314.	1.3	20
27	Freestanding flexible multilayered Sulfur-Carbon nanotubes for Lithium-Sulfur battery cathodes. <i>Energy</i> , 2020, 212, 118779.	4.5	20
28	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.	4.0	20
29	Highly Efficient and Reliable Semitransparent Perovskite Solar Cells via Top Electrode Engineering. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	20
30	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.	3.0	19
31	Solution-processed nickel oxide hole transport layer for highly efficient perovskite-based photovoltaics. <i>Ceramics International</i> , 2018, 44, 9347-9352.	2.3	19
32	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.	0.8	18
33	Characterization of fibrous gel polymer electrolyte for lithium polymer batteries with enhanced electrochemical properties. <i>Journal of Electroanalytical Chemistry</i> , 2016, 775, 37-42.	1.9	18
34	PCBM-blended chlorobenzene hybrid anti-solvent engineering for efficient planar perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2017, 5, 10143-10151.	2.7	18
35	Sequentially Vapor-Grown Hybrid Perovskite for Planar Heterojunction Solar Cells. <i>Nanoscale Research Letters</i> , 2018, 13, 9.	3.1	18
36	Improving of the Photovoltaic Characteristics of Dye-Sensitized Solar Cells Using a Photoelectrode with Electrospun Porous TiO ₂ Nanofibers. <i>Nanomaterials</i> , 2019, 9, 95.	1.9	18

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37	Boron and Aluminum Codoped ZnO Transparent Conducting Films with High Electrical Stability. <i>Journal of the Electrochemical Society</i> , 2011, 159, H61-H65.	1.3	17
38	Phenylethylammonium-formamidinium-methylammonium quasi-2D/3D tin wide-bandgap perovskite solar cell with improved efficiency and stability. <i>Chemical Engineering Journal</i> , 2022, 446, 137388.	6.6	17
39	Cathode of Zn-Ni Layered Double Hydroxide Nanosheet Arrays Wrapped with a Porous NiMoS ₂ Shell and Anode of 3D Hierarchical Nitrogen-Doped Carbon for High-Performance Asymmetric Supercapacitors. <i>ACS Applied Energy Materials</i> , 2021, 4, 9166-9177.	2.5	15
40	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.	1.0	14
41	Growth Temperature Influence on Atomic-Layer-Deposited In ₂ O ₃ Thin Films and Their Application in Inorganic Perovskite Solar Cells. <i>Nanomaterials</i> , 2021, 11, 2047.	1.9	13
42	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> , 2022, 15, 6449-6465.	5.8	12
43	An efficient and thermally stable interconnecting layer for tandem organic solar cells. <i>Solar Energy</i> , 2017, 155, 552-560.	2.9	11
44	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.	4.4	10
45	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.	0.8	10
46	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.	1.1	10
47	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.	2.6	10
48	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.	1.1	9
49	InGaP/GaAs/c-Si junction solar cells employing spectrum-splitting system. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 1016-1023.	4.4	9
50	Perovskite/polyethylene oxide composites: Toward perovskite solar cells without anti-solvent treatment. <i>Ceramics International</i> , 2019, 45, 23399-23405.	2.3	9
51	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.	4.0	9
52	Improving photovoltaic performance of CsPbBr ₃ perovskite solar cells by a solvent-assisted rinsing step. <i>Electrochimica Acta</i> , 2021, 368, 137539.	2.6	9
53	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.	5.6	8
54	Low-Temperature Deposited Highly Flexible In-Zn-O Transparent Conductive Electrode for Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2022, 5, 234-248.	2.5	8

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55	Mixed Solvent Engineering for Morphology Optimization of the Electron Transport Layer in Perovskite Photovoltaics. <i>ACS Applied Energy Materials</i> , 2022, 5, 387-396.	2.5	8
56	Camphene-derived hollow and porous nanofibers decorated with hollow NiO nanospheres and graphitic carbon as anodes for efficient lithium-ion storage. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 114, 276-287.	2.9	8
57	Improving inorganic perovskite photovoltaic performance via organic cation addition for efficient solar energy utilization. <i>Energy</i> , 2022, 257, 124640.	4.5	8
58	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.	1.0	7
59	Methylammonium lead mixed halide films processed with a new composition for planar perovskite solar cells. <i>Applied Surface Science</i> , 2018, 427, 421-426.	3.1	6
60	The effect of substrate temperature on optoelectronic characteristics of surface-textured ZnO:Al films for micromorph silicon tandem solar cells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, NA-NA.	0.8	5
61	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.	0.8	5
62	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.	0.8	5
63	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.	0.8	5
64	Improved Stability in Perovskite Solar Cells by Solution-Processed Fluorocarbon Passivation. <i>IEEE Electron Device Letters</i> , 2018, 39, 843-846.	2.2	5
65	Semitransparent perovskite solar cells with exceptional efficiency and transmittance. <i>Applied Physics Express</i> , 2021, 14, 126504.	1.1	5
66	A self-assembled hierarchical structure to keep the 3D crystal dimensionality in <i>n</i> -butylammonium cation-capped Pb-Sn perovskites. <i>Journal of Materials Chemistry A</i> , 2021, 9, 27541-27550.	5.2	5
67	Enhanced dissociation of excitons and charge transfer in organic solar cells of polymer:fullerene blends with molecular BPFZn doping. <i>International Journal of Energy Research</i> , 2022, 46, 8716-8725.	2.2	5
68	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.	1.3	4
69	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.	3.0	4
70	Performance improvement of amorphous silicon solar cell by SiO _x :H based multiple antireflection coatings. <i>Thin Solid Films</i> , 2016, 616, 461-465.	0.8	4
71	Multi-Scalable Grain Growth via Phenyl-C60-Butyric Acid Methyl Ester Molecular Aggregation in Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 5985-5994.	2.5	4
72	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.	0.8	4

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73	Effect of TiO ₂ Antireflection Layer with Various Conductivities and Refractive Indices on Performance of Amorphous Silicon/Amorphous Silicon Germanium Tandem Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NB10.	0.8	3
74	Highly transparent Zn _{1-x} Mg _x O/ITO multilayer for window of thin film solar cells. Current Applied Physics, 2015, 15, 1022-1026.	1.1	3
75	Numerical simulation of p-type diamond Schottky barrier diodes for high breakdown voltage. Japanese Journal of Applied Physics, 2017, 56, 06GE09.	0.8	3
76	Room-Temperature Solution-Processed 0D/1D Bilayer Electrodes for Translucent CsPbBr ₃ Perovskite Photovoltaics. Nanomaterials, 2021, 11, 1489.	1.9	3
77	P-25: Nanocrystalline Silicon Thin Film Transistor Fabricated without any Substrate Heating for a Flexible Display. Digest of Technical Papers SID International Symposium, 2008, 39, 1262.	0.1	2
78	Highly Transparent and High Haze ZnO:Al film For Front TCO of a-Si:H and $\frac{1}{4}$ c-Si:H Solar Cells by Controlling Oxygen Flow. Materials Research Society Symposia Proceedings, 2009, 1153, 1.	0.1	2
79	Pentacene-assisted planarization of photo-active layers for high performance tandem organic photovoltaics. Solar Energy, 2018, 163, 434-442.	2.9	2
80	Amorphous solar cell on multilayer of SnO ₂ /ZnO TCO substrate for full spectrum splitting solar cell application. Canadian Journal of Physics, 2014, 92, 917-919.	0.4	1
81	Progress in a-SiO _x :H thin film solar cells with patterned MgF ₂ dielectric for top cell of multi-junction system. Electronic Materials Letters, 2016, 12, 451-455.	1.0	1
82	Influence of an Amide-Functionalized Monomeric Unit on the Morphology and Electronic Properties of Non-Fullerene Polymer Solar Cells. International Journal of Precision Engineering and Manufacturing - Green Technology, 0, , 1.	2.7	1
83	The tin precursor is an active site to determine the crystal framework in CsSnI ₃ perovskite. Journal of Materials Chemistry A, 2022, 10, 4782-4790.	5.2	1
84	Stretchable self-charging energy integrated device of high storage efficiency. Journal of Power Sources, 2022, 525, 231079.	4.0	1
85	The Positive Gate Bias Annealing Method for the Suppression of a Leakage Current in the SPC-Si TFT on a Glass Substrate. Materials Research Society Symposia Proceedings, 2008, 1066, 1.	0.1	0
86	P ϵ 26: Thermally Annealed Asymmetric ϵ Offset Polycrystalline Thin Film Transistor with Low Leakage. Digest of Technical Papers SID International Symposium, 2008, 39, 1266-1269.	0.1	0
87	Effect of boron-doping on transparent conducting Al doped ZnO films for thin film solar cells. , 2010, , .		0
88	Surface Analysis of Dielectric Thin Films by Contact Angle Measurements. Science of Advanced Materials, 2018, 10, 1310-1314.	0.1	0
89	Air-Fabricated Organic/Perovskite Tandem Solar Cells with Less Hysteresis. , 0, , .		0