

Dong Suk Kim

List of Publications by Year in descending order

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33
papers

7,236
citations

363081

20
h-index

396953

33
g-index

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all docs

35
docs citations

35
times ranked

6603
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudo-halide anion engineering for FAPbI_3 perovskite solar cells. <i>Nature</i> , 2021, 592, 381-385.	28.1	2,095
2	Methylammonium Chloride Induces Intermediate Phase Stabilization for Efficient Perovskite Solar Cells. <i>Joule</i> , 2019, 3, 2179-2192.	24.4	1,228
3	Stable perovskite solar cells with efficiency exceeding 24.8% and 0.3-V voltage loss. <i>Science</i> , 2020, 369, 1615-1620.	12.8	1,122
4	Conformal quantum dot SnO_2 layers as electron transporters for efficient perovskite solar cells. <i>Science</i> , 2022, 375, 302-306.	12.8	872
5	The hydrothermal synthesis of mesoporous TiO_2 with high crystallinity, thermal stability, large surface area, and enhanced photocatalytic activity. <i>Applied Catalysis A: General</i> , 2007, 323, 110-118.	4.4	266
6	Synthesis and photocatalytic activity of mesoporous TiO_2 with the surface area, crystallite size, and pore size. <i>Journal of Colloid and Interface Science</i> , 2007, 316, 85-91.	9.5	224
7	High Performance of Planar Perovskite Solar Cells Produced from PbI_2 (DMSO) and PbI_2 (NMP) Complexes by Intramolecular Exchange. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500768.	3.7	206
8	High-Temperature Short-Time Annealing Process for High-Performance Large-Area Perovskite Solar Cells. <i>ACS Nano</i> , 2017, 11, 6057-6064.	14.9	142
9	Development of perovskite solar cells with >25% conversion efficiency. <i>Joule</i> , 2021, 5, 1033-1035.	24.4	137
10	Enhanced electrical properties of Li-salts doped mesoporous TiO_2 in perovskite solar cells. <i>Joule</i> , 2021, 5, 659-672.	24.4	127
11	Large-area perovskite solar cells employing spiro-Naph hole transport material. <i>Nature Photonics</i> , 2022, 16, 119-125.	32.0	123
12	Fluorine Functionalized Graphene Nano Platelets for Highly Stable Inverted Perovskite Solar Cells. <i>Nano Letters</i> , 2017, 17, 6385-6390.	9.3	106
13	Flexible organo-metal halide perovskite solar cells on a Ti metal substrate. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4129-4133.	10.4	89
14	Synthesis of PCDTBT-Based Fluorinated Polymers for High Open-Circuit Voltage in Organic Photovoltaics: Towards an Understanding of Relationships between Polymer Energy Levels Engineering and Ideal Morphology Control. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7523-7534.	8.2	88
15	Photocatalytic Inactivation of <i>E. coli</i> with a Mesoporous TiO_2 Coated Film Using the Film Adhesion Method. <i>Environmental Science & Technology</i> , 2009, 43, 148-151.	10.1	69
16	Efficient, durable and flexible perovskite photovoltaic devices with Ag-embedded ITO as the top electrode on a metal substrate. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14592-14597.	10.4	63
17	Synthesis of fluorinated analogues of a practical polymer TQ for improved open-circuit voltages in polymer solar cells. <i>Polymer Chemistry</i> , 2014, 5, 2540.	4.0	40
18	High-yield synthesis of single-crystal silicon nanoparticles as anode materials of lithium ion batteries via photosensitizer-assisted laser pyrolysis. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18070-18075.	10.4	32

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19	Pore Size Distribution Analysis of Mesoporous TiO ₂ Spheres by ¹ H Nuclear Magnetic Resonance (NMR) Cryoporometry. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17440-17445.	3.2	25
20	Ternary Halide Perovskites for Highly Efficient Solution-Processed Hybrid Solar Cells. <i>ACS Energy Letters</i> , 2016, 1, 712-718.	17.7	24
21	Size tailoring of aqueous germanium nanoparticle dispersions. <i>Nanoscale</i> , 2014, 6, 10156-10160.	5.7	21
22	Diastereoselectivity Control in Photosensitized Addition of Methanol to (R)-(+)-Limonene. <i>Journal of Organic Chemistry</i> , 2002, 67, 5718-5726.	3.3	19
23	The size-controlled synthesis of monodisperse spherical mesoporous TiO ₂ particles and high dispersions of Pt, Pd, and Ag clusters on their surfaces. <i>Microporous and Mesoporous Materials</i> , 2013, 181, 61-67.	4.4	19
24	Effects of cation size and concentration of cationic chlorides on the properties of formamidinium lead iodide based perovskite solar cells. <i>Sustainable Energy and Fuels</i> , 2020, 4, 3753-3763.	4.8	17
25	A Roundabout Approach to Control Morphological Orientation and Solar Cell Performance by Modulating Side Chain Branching Position in Benzodithiophene-Based Polymers. <i>ChemPhysChem</i> , 2015, 16, 1305-1314.	2.1	15
26	Capacity retention behavior and morphology evolution of Si _x Ge _{1-x} nanoparticles as lithium-ion battery anode. <i>Nanotechnology</i> , 2015, 26, 255702.	2.6	13
27	The introduction of a perovskite seed layer for high performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 20138-20144.	10.4	12
28	Influence of the Crystalline Nature of Small Donors Molecules on the Efficiency and Stability of Organic Photovoltaic Devices. <i>Solar Rrl</i> , 2018, 2, 1700235.	5.8	11
29	Production of pristine, sulfur-coated and silicon-alloyed germanium nanoparticles via laser pyrolysis. <i>Nanotechnology</i> , 2015, 26, 305703.	2.6	9
30	Highly diastereoselective photoaddition of methanol to limonene. <i>Tetrahedron Letters</i> , 2001, 42, 4341-4344.	1.4	8
31	Hexagonal array micro-convex patterned substrate for improving diffused transmittance in perovskite solar cells. <i>Thin Solid Films</i> , 2018, 660, 682-687.	1.9	6
32	Medium bandgap copolymers based on carbazole and quinoxaline exceeding 1.0 V open-circuit voltages. <i>RSC Advances</i> , 2016, 6, 17624-17631.	3.7	5
33	An intermediate phase stability for high performance of perovskite solar cells. <i>Matter</i> , 2021, 4, 3377-3378.	10.2	2