Gill Sang Han

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71
papers

2,599
citations

25
h-index

76
ext. papers

2,964
ext. citations

9.9
avg, IF

50
g-index

5.09
L-index

#	Paper	IF	Citations
71	Highly efficient and bending durable perovskite solar cells: toward a wearable power source. Energy and Environmental Science, 2015 , 8, 916-921	35.4	518
70	Reduced Graphene Oxide/Mesoporous TiO2 Nanocomposite Based Perovskite Solar Cells. <i>ACS Applied Materials & District Solar Cells</i> , 7, 23521-6	9.5	153
69	Flexible Perovskite Solar Cells. <i>Joule</i> , 2019 , 3, 1850-1880	27.8	146
68	Retarding charge recombination in perovskite solar cells using ultrathin MgO-coated TiO2 nanoparticulate films. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9160-9164	13	142
67	In-Situ Formed Type I Nanocrystalline Perovskite Film for Highly Efficient Light-Emitting Diode. <i>ACS Nano</i> , 2017 , 11, 3311-3319	16.7	134
66	Niobium Doping Effects on TiO2 Mesoscopic Electron Transport Layer-Based Perovskite Solar Cells. <i>ChemSusChem</i> , 2015 , 8, 2392-8	8.3	123
65	BiVO/WO/SnO Double-Heterojunction Photoanode with Enhanced Charge Separation and Visible-Transparency for Bias-Free Solar Water-Splitting with a Perovskite Solar Cell. <i>ACS Applied Materials & Amp; Interfaces</i> , 2017 , 9, 1479-1487	9.5	121
64	Methylammonium lead iodide perovskite-graphene hybrid channels in flexible broadband phototransistors. <i>Carbon</i> , 2016 , 105, 353-361	10.4	98
63	Crystallographically preferred oriented TiO2 nanotube arrays for efficient photovoltaic energy conversion. <i>Energy and Environmental Science</i> , 2012 , 5, 7989	35.4	82
62	A simple self-assembly route to single crystalline SnO2 nanorod growth by oriented attachment for dye sensitized solar cells. <i>Nanoscale</i> , 2013 , 5, 1188-94	7.7	71
61	Nanowire-Based Three-Dimensional Transparent Conducting Oxide Electrodes for Extremely Fast Charge Collection. <i>Advanced Energy Materials</i> , 2011 , 1, 829-835	21.8	48
60	Epitaxial 1D electron transport layers for high-performance perovskite solar cells. <i>Nanoscale</i> , 2015 , 7, 15284-90	7.7	44
59	Enhanced luminous efficiency of deep red emitting K2SiF6:Mn4+ phosphor dependent on KF ratio for warm-white LED. <i>Materials Letters</i> , 2015 , 141, 27-30	3.3	44
58	Highly stable perovskite solar cells in humid and hot environment. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14733-14740	13	40
57	Simple large-scale synthesis of hydroxyapatite nanoparticles: in situ observation of crystallization process. <i>Langmuir</i> , 2010 , 26, 384-8	4	40
56	Highly Bendable Flexible Perovskite Solar Cells on a Nanoscale Surface Oxide Layer of Titanium Metal Plates. <i>ACS Applied Materials & Diterfaces</i> , 2018 , 10, 4697-4704	9.5	37
55	Photophysical and Photocatalytic Properties of Ag2M2O7 (M=Mo, W). <i>Journal of the American Ceramic Society</i> , 2010 , 93, 3867-3872	3.8	37

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54	A Simple Method To Control Morphology of Hydroxyapatite Nano- and Microcrystals by Altering Phase Transition Route. <i>Crystal Growth and Design</i> , 2013 , 13, 3414-3418	3.5	36
53	Spin-Coating Process for 10 cm 🛮 0 cm Perovskite Solar Modules Enabled by Self-Assembly of SnO2 Nanocolloids. <i>ACS Energy Letters</i> , 2019 , 4, 1845-1851	20.1	34
52	Tailored 2D/3D Halide Perovskite Heterointerface for Substantially Enhanced Endurance in Conducting Bridge Resistive Switching Memory. <i>ACS Applied Materials & District Amplied & District Ampl</i>	39 47 04	15 ³¹
51	Indium In Indiam Indiana Nanowire Array Based CdSe/CdS/TiO2 One-Dimensional Heterojunction Photoelectrode for Enhanced Solar Hydrogen Production. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1161-1168	8.3	30
50	Chlorine-modified SnO2 electron transport layer for high-efficiency perovskite solar cells. <i>Informa</i> Materily, 2020 , 2, 401-408	23.1	30
49	3-D TiO2 nanoparticle/ITO nanowire nanocomposite antenna for efficient charge collection in solid state dye-sensitized solar cells. <i>Nanoscale</i> , 2014 , 6, 6127-32	7.7	29
48	Functionalization of nanomaterials by non-thermal large area atmospheric pressure plasmas: application to flexible dye-sensitized solar cells. <i>Nanoscale</i> , 2013 , 5, 7825-30	7.7	27
47	The novel design of a remote phosphor ceramic plate for white light generation in high power LEDs. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6148-6152	7.1	26
46	Low-Temperature Modification of ZnO Nanoparticles Film for Electron-Transport Layers in Perovskite Solar Cells. <i>ChemSusChem</i> , 2017 , 10, 2425-2430	8.3	24
45	Nanodome Structured BiVO4/GaOxN1☑ Photoanode for Solar Water Oxidation. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700323	4.6	22
44	Screening effect on photovoltaic performance in ferroelectric CH3NH3PbI3 perovskite thin films. Journal of Materials Chemistry A, 2015 , 3, 20352-20358	13	21
43	Polyethylenimine-assisted growth of high-aspect-ratio nitrogen-doped ZnO (NZO) nanorod arrays and their effect on performance of dye-sensitized solar cells. <i>ACS Applied Materials & amp; Interfaces</i> , 2014 , 6, 10028-43	9.5	21
42	Formamidine disulfide oxidant as a localised electron scavenger for >20% perovskite solar cell modules. <i>Energy and Environmental Science</i> , 2021 , 14, 4903-4914	35.4	20
41	Stable and Efficient Methylammonium-, Cesium-, and Bromide-Free Perovskite Solar Cells by In-Situ Interlayer Formation. <i>Advanced Functional Materials</i> , 2021 , 31, 2007520	15.6	19
40	Dual function of a high-contrast hydrophobicBydrophilic coating for enhanced stability of perovskite solar cells in extremely humid environments. <i>Nano Research</i> , 2017 , 10, 3885-3895	10	18
39	Study on the enhanced and stable field emission behavior of a novel electrosprayed Al-doped ZnO bilayer film. <i>RSC Advances</i> , 2014 , 4, 9072	3.7	18
38	Ultrarapid and ultrasensitive electrical detection of proteins in a three-dimensional biosensor with high capture efficiency. <i>Nanoscale</i> , 2015 , 7, 9844-51	7.7	17
37	Revisiting Effects of Ligand-Capped Nanocrystals in Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2020 , 5, 1032-1034	20.1	16

36	Multi-functional transparent electrode for reliable flexible perovskite solar cells. <i>Journal of Power Sources</i> , 2019 , 435, 226768	8.9	15
35	Green-emitting Lu3Al5O12:Ce3+ phosphor as a visible light amplifier for dye-sensitized solar cells. <i>RSC Advances</i> , 2015 , 5, 24737-24741	3.7	15
34	New down-converter for UV-stable perovskite solar cells: Phosphor-in-glass. <i>Journal of Power Sources</i> , 2018 , 389, 135-139	8.9	14
33	Cerium-doped yttrium aluminum garnet hollow shell phosphors synthesized via the Kirkendall effect. ACS Applied Materials & Samp; Interfaces, 2014, 6, 1145-51	9.5	14
32	Correlation of anatase particle size with photocatalytic properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 2288-2291	1.6	14
31	In2O3:Sn/TiO2/CdS heterojunction nanowire array photoanode in photoelectrochemical cells. International Journal of Hydrogen Energy, 2014, 39, 17473-17480	6.7	13
30	Direct Low-Temperature Growth of Single-Crystalline Anatase TiO2 Nanorod Arrays on Transparent Conducting Oxide Substrates for Use in PbS Quantum-Dot Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10324-30	9.5	12
29	Observation of anatase nanograins crystallizing from anodic amorphous TiO2 nanotubes. <i>CrystEngComm</i> , 2015 , 17, 7346-7353	3.3	12
28	Design of water stable green-emitting CH3NH3PbBr3 perovskite luminescence materials with encapsulation for applications in optoelectronic device. <i>Chemical Engineering Journal</i> , 2016 , 306, 791-7	954.7	12
27	Design of a thermally stable rGO-embedded remote phosphor for applications in white LEDs. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 235-238	7.1	11
26	Mesoporous TiO2 nanowires as bi-functional materials for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012 , 74, 83-86	6.7	11
25	Substrate effects on photoluminescence and low temperature phase transition of methylammonium lead iodide hybrid perovskite thin films. <i>Applied Physics Letters</i> , 2017 , 111, 023902	3.4	11
24	Low Temperature Synthesis of Rutile TiO2 Nanocrystals and Their Photovoltaic and Photocatalytic Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 4516-21	1.3	11
23	TiO2 nanocrystals shell layer on highly conducting indium tin oxide nanowire for photovoltaic devices. <i>Nanoscale</i> , 2013 , 5, 3520-6	7.7	11
22	Preparation and luminescence characteristics of single-phase rod-like BaSi2O2N2:Eu2+ phosphor with new synthetic route for white light generation. <i>Materials Letters</i> , 2014 , 129, 178-181	3.3	10
21	Synthesis and adsorption properties of gelatin-conjugated hematite (中eO) nanoparticles for lead removal from wastewater. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125696	12.8	10
20	Infiltration of methylammonium metal halide in highly porous membranes using sol-gel-derived coating method. <i>Applied Surface Science</i> , 2017 , 416, 96-102	6.7	9
19	Copper phosphate compounds with visible-to-near-infrared-active photo-fenton-like photocatalytic properties. <i>Journal of the American Ceramic Society</i> , 2020 , 103, 5120-5128	3.8	9

18	All-in-One Lewis Base for Enhanced Precursor and Device Stability in Highly Efficient Perovskite Solar Cells. <i>ACS Energy Letters</i> ,3425-3434	20.1	9
17	Electron extraction mechanism in low hysteresis perovskite solar cells using single crystal TiO2 nanorods. <i>Solar Energy</i> , 2018 , 167, 251-257	6.8	7
16	Epitaxial Anatase TiO2Nanorods Array with Reduced Interfacial Charge Recombination for Solar Water Splitting. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H469-H473	3.9	7
15	Facile transfer fabrication of transparent, conductive and flexible In2O3:Sn (ITO) nanowire arrays electrode via selective wet-etching ZnO sacrificial layer. <i>Materials Letters</i> , 2015 , 158, 304-308	3.3	6
14	Controlled oxidation of Ni for stress-free hole transport layer of large-scale perovskite solar cells. <i>Nano Research</i> , 2019 , 12, 3089-3094	10	6
13	Facile Synthesis and Enhancement of Luminescence Properties of Red-Emitting Sr2Si5N8 : Eu2+Phosphor. <i>Science of Advanced Materials</i> , 2015 , 7, 1485-1487	2.3	6
12	Transparent-conducting-oxide nanowire arrays for efficient photoelectrochemical energy conversion. <i>Nanoscale</i> , 2014 , 6, 8649-55	7.7	5
11	Defect Healing in FAPb(I 1- x Br x) 3 Perovskites: Multifunctional Fluorinated Sulfonate Surfactant Anchoring Enables >21%[Modules with Improved Operation Stability. <i>Advanced Energy Materials</i> ,220]	00632	5
10	Enhancing Solar Water Splitting of Textured BiVO4 by Dual Effect of a Plasmonic Silver Nanoshell: Plasmon-Induced Light Absorption and Enhanced Hole Transport. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11886-11892	6.1	4
9	Correlation between photoactivity of TiO2 and diffusion of Na+ ions from soda lime glass. <i>Materials Letters</i> , 2018 , 228, 351-355	3.3	4
8	Recent cutting-edge strategies for flexible perovskite solar cells toward commercialization. <i>Chemical Communications</i> , 2021 , 57, 11604-11612	5.8	2
7	In-Situ Nano-Auger Probe of Chloride-Ions during CHNHPbICl Perovskite Formation. <i>Materials</i> , 2021 , 14,	3.5	2
6	Influence of annealing atmosphere on the electrical conductivity of copper nanoparticle films. <i>Electronic Materials Letters</i> , 2016 , 12, 338-342	2.9	1
5	Safety and efficacy of tacrolimus-coated silicone plates as an alternative to mitomycin C in a rabbit model of conjunctival fibrosis. <i>PLoS ONE</i> , 2019 , 14, e0219194	3.7	О
4	Photophysical, optical, and photocatalytic hydrogen production properties of layered-type BaNb2-xTaxP2O11 (x = 0, 0.5, 1.0, 1.5, and 2.0) compounds. <i>Journal of Materials Science and Technology</i> , 2022 , 98, 26-32	9.1	O
3	Ultimate Charge Extraction of Monolayer PbS Quantum Dot for Observation of Multiple Exciton Generation. <i>ChemPhysChem</i> , 2019 , 20, 2657-2661	3.2	
2	Real Impacts of Ligand-Capped Nanocrystals in Perovskite Solar Cells. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 1901-1901	0	
1	Defect Healing in FAPb(I 1- x Br x) 3 Perovskites: Multifunctional Fluorinated Sulfonate Surfactant Anchoring Enables >21%[Modules with Improved Operation Stability (Adv. Energy Mater. 20/2022). Advanced Energy Materials, 2022, 12, 2270083	21.8	