Jun Hong Noh

List of Publications by Year in Descending Order

111 papers	34,768 citations	45 h-index	118 g-index
118 ext. papers	38,150 ext. citations	12.8 avg, IF	7.57 L-index

#	Paper	IF	Citations
111	Transferable transparent electrodes of liquid metals for bifacial perovskite solar cells and heaters. *Nano Energy*, **2022**, 93, 106857	17.1	5
110	Important Role of Alloyed Polymer Acceptor for High Efficiency and Stable Large-area Organic Photovoltaics. *Nano Energy*, **2022**, 107187	17.1	2
109	Solar-Driven Simultaneous Electrochemical CO2 Reduction and Water Oxidation Using Perovskite Solar Cells. *Energies*, **2022**, 15, 270	3.1	2
108	Efficient n-i-p Monolithic Perovskite/Silicon Tandem Solar Cells with Tin Oxide via a Chemical Bath Deposition Method. *Energies*, **2021**, 14, 7614	3.1	4
107	Effects of stretching on the molecular packing structure of conjugated polymers with hydrogen bonding. *Journal of Materials Chemistry C*, **2021**, 9, 15132-15140	7.1	1
106	Tailoring of Ligand-Off Nanoparticles Inks for Thin p-Type Oxide Overlayers Formation with Maintaining Intact Halide Perovskite. *Advanced Functional Materials*, **2021**, 31, 2100863	15.6	6
105	Intact 2D/3D halide junction perovskite solar cells via solid-phase in-plane growth. *Nature Energy*, **2021**, 6, 63-71	62.3	155
104	Recent Progress in the Semiconducting Oxide Overlayer for Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2021**, 11, 2003119	21.8	4
103	Simultaneous Enhanced Efficiency and Stability of Perovskite Solar Cells Using Adhesive Fluorinated Polymer Interfacial Material. *ACS Applied Materials & Interfaces*, **2021**, 13, 35595-35605	9.5	8
102	Halide Perovskites: Tailoring of Ligand-Off Nanoparticles Inks for Thin p-Type Oxide Overlayers Formation with Maintaining Intact Halide Perovskite (Adv. Funct. Mater. 31/2021). *Advanced Functional Materials*, **2021**, 31, 2170223	15.6	
101	Spontaneous interface engineering for dopant-free poly(3-hexylthiophene) perovskite solar cells with efficiency over 24%. *Energy and Environmental Science*, **2021**, 14, 2419-2428	35.4	56
100	Effects of photon recycling and scattering in high-performance perovskite solar cells.. *Science Advances*, **2021**, 7, eabj1363	14.3	1
99	Photon recycling in halide perovskite solar cells for higher efficiencies. *MRS Bulletin*, **2020**, 45, 439-448	3.2	7
98	Highly Efficient Large-Area Organic Photovoltaic Module with a 350 nm Thick Active Layer Using a Random Terpolymer Donor. *Chemistry of Materials*, **2020**, 32, 3469-3479	9.6	10
97	Recent Progress in Metal Halide Perovskite-Based Tandem Solar Cells. *Advanced Materials*, **2020**, 32, e2002228	24	19
96	Single-Solution Bar-Coated Halide Perovskite Films via Mediating Crystallization for Scalable Solar Cell Fabrication. *ACS Applied Materials & Interfaces*, **2019**, 11, 11537-11544	9.5	14
95	Efficient, stable and scalable perovskite solar cells using poly(3-hexylthiophene). *Nature*, **2019**, 567, 511-515	50.4	1366

94	Transparent Sn-doped In2O3 electrodes with a nanoporous surface for enhancing the performance of perovskite solar cells. *Journal of Power Sources*, **2019**, 418, 152-161	8.9	12
93	Waste Liquid-Crystal Display Glass-Directed Fabrication of Silicon Particles for Lithium-Ion Battery Anodes. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 15329-15338	8.3	11
92	Impact of Electrode Materials on Process Environmental Stability of Efficient Perovskite Solar Cells. *Joule*, **2019**, 3, 1977-1985	27.8	17
91	Band Alignment Engineering between Planar SnO and Halide Perovskites via Two-Step Annealing. *Journal of Physical Chemistry Letters*, **2019**, 10, 6545-6550	6.4	14
90	Ternary diagrams of the phase, optical bandgap energy and photoluminescence of mixed-halide perovskites. *Acta Materialia*, **2019**, 181, 460-469	8.4	6
89	Carrier-resolved photo-Hall effect. *Nature*, **2019**, 575, 151-155	50.4	40
88	Energy-level engineering of the electron transporting layer for improving open-circuit voltage in dye and perovskite-based solar cells. *Energy and Environmental Science*, **2019**, 12, 958-964	35.4	88
87	Highly Durable and Flexible Transparent Electrode for Flexible Optoelectronic Applications. *ACS Applied Materials & Interfaces*, **2018**, 10, 30706-30715	9.5	27
86	Fast two-step deposition of perovskite via mediator extraction treatment for large-area, high-performance perovskite solar cells. *Journal of Materials Chemistry A*, **2018**, 6, 12447-12454	13	60
85	Reducing Carrier Density in Formamidinium Tin Perovskites and Its Beneficial Effects on Stability and Efficiency of Perovskite Solar Cells. *ACS Energy Letters*, **2018**, 3, 46-53	20.1	110
84	Simultaneous Ligand Exchange Fabrication of Flexible Perovskite Solar Cells using Newly Synthesized Uniform Tin Oxide Quantum Dots. *Journal of Physical Chemistry Letters*, **2018**, 9, 5460-5467	6.4	25
83	Cold-spray coating of hydroxyapatite on a three-dimensional polyetheretherketone implant and its biocompatibility evaluated by in vitro and in vivo minipig model. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2017**, 105, 647-657	3.5	30
82	Spatial Distribution of Lead Iodide and Local Passivation on Organo-Lead Halide Perovskite. *ACS Applied Materials & Interfaces*, **2017**, 9, 6072-6078	9.5	50
81	Colloidally prepared La-doped BaSnO electrodes for efficient, photostable perovskite solar cells. *Science*, **2017**, 356, 167-171	33.3	880
80	Engineering interface structures between lead halide perovskite and copper phthalocyanine for efficient and stable perovskite solar cells. *Energy and Environmental Science*, **2017**, 10, 2109-2116	35.4	147
79	Iodide management in formamidinium-lead-halide-based perovskite layers for efficient solar cells. *Science*, **2017**, 356, 1376-1379	33.3	4055
78	Controllable synthesis of single crystalline Sn-based oxides and their application in perovskite solar cells. *Journal of Materials Chemistry A*, **2017**, 5, 79-86	13	36
77	Indolo[3,2-]indole-based crystalline hole-transporting material for highly efficient perovskite solar cells. *Chemical Science*, **2017**, 8, 734-741	9.4	83

76	Rational Strategies for Efficient Perovskite Solar Cells. *Accounts of Chemical Research*, **2016**, 49, 562-72	24.3	256
75	Fabrication of Efficient Formamidinium Tin Iodide Perovskite Solar Cells through SnF2–Pyrazine Complex. *Journal of the American Chemical Society*, **2016**, 138, 3974-7	16.4	508
74	Beneficial Effects of PbI2 Incorporated in Organo-Lead Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1502104	21.8	335
73	Tailoring of Electron-Collecting Oxide Nanoparticulate Layer for Flexible Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2016**, 7, 1845-51	6.4	83
72	Thermal Stability of CuSCN Hole Conductor-Based Perovskite Solar Cells. *ChemSusChem*, **2016**, 9, 2592-2596	8.3	118
71	High-performance flexible perovskite solar cells exploiting Zn2SnO4 prepared in solution below 100 °C. *Nature Communications*, **2015**, 6, 7410	17.4	351
70	Steps toward efficient inorganic–organic hybrid perovskite solar cells. *MRS Bulletin*, **2015**, 40, 648-653	3.2	28
69	Efficient CH3 NH3 PbI3 Perovskite Solar Cells Employing Nanostructured p-Type NiO Electrode Formed by a Pulsed Laser Deposition. *Advanced Materials*, **2015**, 27, 4013-9	24	414
68	Effective Electron Blocking of CuPC-Doped Spiro-OMeTAD for Highly Efficient Inorganic–Organic Hybrid Perovskite Solar Cells. *Advanced Energy Materials*, **2015**, 5, 1501320	21.8	74
67	SOLAR CELLS. High-performance photovoltaic perovskite layers fabricated through intramolecular exchange. *Science*, **2015**, 348, 1234-7	33.3	4908
66	Synthesis of carbon-incorporated titanium oxide nanocrystals by pulsed solution plasma: electrical, optical investigation and nanocrystals analysis. *RSC Advances*, **2015**, 5, 9497-9502	3.7	3
65	Compositional engineering of perovskite materials for high-performance solar cells. *Nature*, **2015**, 517, 476-80	50.4	4611
64	Fabrication of metal-oxide-free CH3NH3PbI3 perovskite solar cells processed at low temperature. *Journal of Materials Chemistry A*, **2015**, 3, 3271-3275	13	147
63	PbS colloidal quantum-dot-sensitized inorganic-organic hybrid solar cells with radial-directional charge transport. *ChemPhysChem*, **2014**, 15, 1024-7	3.2	17
62	o-Methoxy substituents in spiro-OMeTAD for efficient inorganic-organic hybrid perovskite solar cells. *Journal of the American Chemical Society*, **2014**, 136, 7837-40	16.4	597
61	Voltage output of efficient perovskite solar cells with high open-circuit voltage and fill factor. *Energy and Environmental Science*, **2014**, 7, 2614-2618	35.4	599
60	Efficient Inorganic-Organic Heterojunction Solar Cells Employing Sb2(Sx/Se1-x)3 Graded-Composition Sensitizers. *Advanced Energy Materials*, **2014**, 4, 1301680	21.8	102
59	Transparent-conducting-oxide nanowire arrays for efficient photoelectrochemical energy conversion. *Nanoscale*, **2014**, 6, 8649-55	7.7	5

58	Highly Improved Sb2S3 Sensitized-Inorganic–Organic Heterojunction Solar Cells and Quantification of Traps by Deep-Level Transient Spectroscopy. *Advanced Functional Materials*, **2014**, 24, 3587-3592	15.6	346
57	Well-Organized Mesoporous TiO2 Photoelectrodes by Block Copolymer-Induced Sol–Gel Assembly for Inorganic–Organic Hybrid Perovskite Solar Cells. *Journal of Physical Chemistry C*, **2014**, 118, 16688-16693	4.8	45
56	Solvent engineering for high-performance inorganic-organic hybrid perovskite solar cells. *Nature Materials*, **2014**, 13, 897-903	27	4981
55	Heterojunction Fe2O3-SnO2 Nanostructured Photoanode for Efficient Photoelectrochemical Water Splitting. *Jom*, **2014**, 66, 664-669	2.1	16
54	Nanostructured Ti-doped hematite (α-Fe2O3) photoanodes for efficient photoelectrochemical water oxidation. *International Journal of Hydrogen Energy*, **2014**, 39, 17501-17507	6.7	39
53	Benefits of very thin PCBM and LiF layers for solution-processed p–i–n perovskite solar cells. *Energy and Environmental Science*, **2014**, 7, 2642-2646	35.4	570
52	Sb(2)Se(3) -sensitized inorganic-organic heterojunction solar cells fabricated using a single-source precursor. *Angewandte Chemie - International Edition*, **2014**, 53, 1329-33	16.4	124
51	A Hierarchically Organized Photoelectrode Architecture for Highly Efficient CdS/CdSe-Sensitized Solar Cells. *Advanced Energy Materials*, **2014**, 4, 1300395	21.8	10
50	In2O3:Sn/TiO2/CdS heterojunction nanowire array photoanode in photoelectrochemical cells. *International Journal of Hydrogen Energy*, **2014**, 39, 17473-17480	6.7	13
49	3-D TiO2 nanoparticle/ITO nanowire nanocomposite antenna for efficient charge collection in solid state dye-sensitized solar cells. *Nanoscale*, **2014**, 6, 6127-32	7.7	29
48	Nanostructured TiO2/CH3NH3PbI3 heterojunction solar cells employing spiro-OMeTAD/Co-complex as hole-transporting material. *Journal of Materials Chemistry A*, **2013**, 1, 11842	13	253
47	A Simple Method To Control Morphology of Hydroxyapatite Nano- and Microcrystals by Altering Phase Transition Route. *Crystal Growth and Design*, **2013**, 13, 3414-3418	3.5	36
46	Preparation and characterization of nano-sized Y3Al5O12:Ce3+ phosphor by high-energy milling process. *Current Applied Physics*, **2013**, 13, S69-S74	2.6	14
45	Efficient inorganic-organic hybrid perovskite solar cells based on pyrene arylamine derivatives as hole-transporting materials. *Journal of the American Chemical Society*, **2013**, 135, 19087-90	16.4	456
44	Quaternary semiconductor Cu2FeSnS4 nanoparticles as an alternative to Pt catalysts. *RSC Advances* , **2013**, 3, 24918	3.7	26
43	Chemical management for colorful, efficient, and stable inorganic-organic hybrid nanostructured solar cells. *Nano Letters*, **2013**, 13, 1764-9	11.5	3520
42	Efficient inorganic–organic hybrid heterojunction solar cells containing perovskite compound and polymeric hole conductors. *Nature Photonics*, **2013**, 7, 486-491	33.9	2185
41	TiO2 nanocrystals shell layer on highly conducting indium tin oxide nanowire for photovoltaic devices. *Nanoscale*, **2013**, 5, 3520-6	7.7	11

40	In vitro and in vivo evaluation of the bioactivity of hydroxyapatite-coated polyetheretherketone biocomposites created by cold spray technology. *Acta Biomaterialia*, **2013**, 9, 6177-87	10.8	150
39	Fabrication of CuInTe2 and CuInTe(2-x)Se(x) ternary gradient quantum dots and their application to solar cells. *ACS Nano*, **2013**, 7, 4756-63	16.7	75
38	Luminescent characteristics of green emitting Li2Ca2Si2O7:Eu2+ phosphor. *Materials Letters*, **2012**, 79, 112-115	3.3	22
37	Transmittance optimized nb-doped TiO2/Sn-doped In2O3 multilayered photoelectrodes for dye-sensitized solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 96, 276-280	6.4	28
36	Aligned Photoelectrodes with Large Surface Area Prepared by Pulsed Laser Deposition. *Journal of Physical Chemistry C*, **2012**, 116, 8102-8110	3.8	28
35	Tin doped indium oxide core□iO2 shell nanowires on stainless steel mesh for flexible photoelectrochemical cells. *Applied Physics Letters*, **2012**, 100, 084104	3.4	23
34	Influence of niobium doping in hierarchically organized titania nanostructure on performance of dye-sensitized solar cells. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 5091-5	1.3	10
33	General strategy for fabricating transparent TiO2 nanotube arrays for dye-sensitized photoelectrodes: illumination geometry and transport properties. *ACS Nano*, **2011**, 5, 2647-56	16.7	100
32	Nanowire-Based Three-Dimensional Transparent Conducting Oxide Electrodes for Extremely Fast Charge Collection. *Advanced Energy Materials*, **2011**, 1, 829-835	21.8	48
31	3D Transparent Conducting Oxides: Nanowire-Based Three-Dimensional Transparent Conducting Oxide Electrodes for Extremely Fast Charge Collection (Adv. Energy Mater. 5/2011). *Advanced Energy Materials*, **2011**, 1, 702-702	21.8	
30	Preparation and photoluminescence properties of □KCaPO4: Eu2+ phosphors for near UV-based white LEDs. *Optical Materials*, **2011**, 33, 1036-1040	3.3	34
29	Enhancing the Densification of Nanocrystalline TiO2 by Reduction in Spark Plasma Sintering. *Journal of the American Ceramic Society*, **2010**, 93, 993-997	3.8	11
28	A Newly Designed Nb-Doped TiO2/Al-Doped ZnO Transparent Conducting Oxide Multilayer for Electrochemical Photoenergy Conversion Devices. *Journal of Physical Chemistry C*, **2010**, 114, 13867-13871	3.8	28
27	Facile Hydrothermal Synthesis of SrNb2O6 Nanotubes with Rhombic Cross Sections. *Crystal Growth and Design*, **2010**, 10, 2447-2450	3.5	9
26	Synthesis and characterization of nano-particulate BaTiO3 for ceramic/polymer composite capacitor. *Journal of Nanoscience and Nanotechnology*, **2010**, 10, 1361-6	1.3	2
25	SrNb2O6 nanotubes with enhanced photocatalytic activity. *Journal of Materials Chemistry*, **2010**, 20, 3979		26
24	Tailoring the Morphology and Structure of Nanosized Zn2SiO4: Mn2+ Phosphors Using the Hydrothermal Method and Their Luminescence Properties. *Journal of Physical Chemistry C*, **2010**, 114, 10330-10335	3.8	45
23	Al-Doped ZnO Thin Film: A New Transparent Conducting Layer for ZnO Nanowire-Based Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2010**, 114, 7185-7189	3.8	119

22	Synthesis and photoactivity of hetero-nanostructured SrTiO3. *Journal of the Ceramic Society of Japan*, **2010**, 118, 876-880	1	14
21	Effects of carbon content on the photocatalytic activity of C/BiVO4 composites under visible light irradiation. *Materials Chemistry and Physics*, **2010**, 119, 106-111	4.4	51
20	Correlation of anatase particle size with photocatalytic properties. *Physica Status Solidi (A) Applications and Materials Science*, **2010**, 207, 2288-2291	1.6	14
19	Structure and dielectric properties of cubic Bi2(Zn1□Ta2□)2O7 thin films. *Journal of Applied Physics*, **2009**, 106, 084103	2.5	
18	Enhanced photovoltaic properties of overlayer-coated nanocrystalline TiO2 dye-sensitized solar cells (DSSCs). *Journal of Electroceramics*, **2009**, 23, 422-425	1.5	29
17	Electrical and optical properties of epitaxial and polycrystalline undoped and Al-doped ZnO thin films grown by pulsed laser deposition. *Journal of Electroceramics*, **2009**, 23, 497-501	1.5	5
16	Photoluminescence and electrical properties of epitaxial Al-doped ZnO transparent conducting thin films. *Physica Status Solidi (A) Applications and Materials Science*, **2009**, 206, 2133-2138	1.6	14
15	Indium□tin□Oxide-Based Transparent Conducting Layers for Highly Efficient Photovoltaic Devices. *Journal of Physical Chemistry C*, **2009**, 113, 7443-7447	3.8	33
14	Synthesis of CdSe-TiO2 nanocomposites and their applications to TiO2 sensitized solar cells. *Langmuir*, **2009**, 25, 5348-51	4	54
13	Functional Multilayered Transparent Conducting Oxide Thin Films for Photovoltaic Devices. *Journal of Physical Chemistry C*, **2009**, 113, 1083-1087	3.8	56
12	Nb-Doped TiO2: A New Compact Layer Material for TiO2 Dye-Sensitized Solar Cells. *Journal of Physical Chemistry C*, **2009**, 113, 6878-6882	3.8	197
11	Visible-Light-Induced Photocatalytic Activity in FeNbO4 Nanoparticles. *Journal of Physical Chemistry C*, **2008**, 112, 18393-18398	3.8	38
10	Mobility enhanced photoactivity in sol-gel grown epitaxial anatase TiO2 films. *Langmuir*, **2008**, 24, 2695-8	4	24
9	Reversible change in electrical and optical properties in epitaxially grown Al-doped ZnO thin films. *Journal of Applied Physics*, **2008**, 104, 073706	2.5	27
8	Synthesis of Cu2PO4OH Hierarchical Superstructures with Photocatalytic Activity in Visible Light. *Advanced Functional Materials*, **2008**, 18, 2154-2162	15.6	123
7	Low-Temperature Hydrothermal Synthesis of Pure BiFeO3 Nanopowders Using Triethanolamine and Their Applications as Visible-Light Photocatalysts. *Journal of the American Ceramic Society*, **2008**, 91, 3753-3755	3.8	102
6	Effects of Ta-substitution on the dielectric properties of Ba6Ti2(Nb1□Tax)8O30 thin films. *Journal of the European Ceramic Society*, **2007**, 27, 2927-2931	6	2
5	Microwave dielectric properties of nanocrystalline TiO2 prepared using spark plasma sintering. *Journal of the European Ceramic Society*, **2007**, 27, 2937-2940	6	27

4	Seed-layer mediated orientation evolution in dielectric Bi2ZnTiNbO thin films. *Applied Physics Letters*, **2007**, 91, 232903	3.4	3
3	Dielectric properties of nanocrystalline TiO2 prepared using spark plasma sintering. *Journal of Electroceramics*, **2006**, 17, 913-917	1.5	8
2	Influence of stress on structural and dielectric anomaly of Bi2(Zn1/3Ta2/3)207 thin films. *Materials Research Society Symposia Proceedings*, **2005**, 875, 1		
1	Perovskite/Silicon Tandem Solar Cells with a Voc of 1784 mV Based on an Industrially Feasible 25 cm2 TOPCon Silicon Cell. *ACS Applied Energy Materials*,	6.1	2