

Jun Hong Noh

List of Publications by Year in descending order

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117
papers

41,208
citations

43973

48
h-index

23472

111
g-index

118
all docs

118
docs citations

118
times ranked

25141
citing authors

#	ARTICLE	IF	CITATIONS
1	Transferable transparent electrodes of liquid metals for bifacial perovskite solar cells and heaters. <i>Nano Energy</i> , 2022, 93, 106857.	8.2	24
2	Perovskite/Silicon Tandem Solar Cells with a V_{oc} of 1784 mV Based on an Industrially Feasible 25 cm ² TOPCon Silicon Cell. <i>ACS Applied Energy Materials</i> , 2022, 5, 5449-5456.	2.5	14
3	Important role of alloyed polymer acceptor for high efficiency and stable large-area organic photovoltaics. <i>Nano Energy</i> , 2022, 98, 107187.	8.2	11
4	Solar-Driven Simultaneous Electrochemical CO ₂ Reduction and Water Oxidation Using Perovskite Solar Cells. <i>Energies</i> , 2022, 15, 270.	1.6	6
5	Suppressing Halide Segregation in Wide-Band-Gap Mixed-Halide Perovskite Layers through Post-Hot Pressing. <i>ACS Applied Materials & Interfaces</i> , 2022, , .	4.0	4
6	High-Performance Cold Cathode X-ray Tubes Using a Carbon Nanotube Field Electron Emitter. <i>ACS Nano</i> , 2022, 16, 10231-10241.	7.3	21
7	Oxide/Halide/Oxide Architecture for High Performance Semi-transparent Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, .	10.2	11
8	Optimal Solvents for Interfacial Solution Engineering of Perovskite Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	3.1	6
9	Intact 2D/3D halide junction perovskite solar cells via solid-phase in-plane growth. <i>Nature Energy</i> , 2021, 6, 63-71.	19.8	365
10	Recent Progress in the Semiconducting Oxide Overlayer for Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2021, 11, 2003119.	10.2	9
11	Tailoring of Ligand-off Nanoparticles Inks for Thin p-type Oxide Overlayers Formation with Maintaining Intact Halide Perovskite. <i>Advanced Functional Materials</i> , 2021, 31, 2100863.	7.8	11
12	Simultaneous Enhanced Efficiency and Stability of Perovskite Solar Cells Using Adhesive Fluorinated Polymer Interfacial Material. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35595-35605.	4.0	20
13	Halide Perovskites: Tailoring of Ligand-off Nanoparticles Inks for Thin p-type Oxide Overlayers Formation with Maintaining Intact Halide Perovskite (<i>Adv. Funct. Mater.</i> 31/2021). <i>Advanced Functional Materials</i> , 2021, 31, 2170223.	7.8	0
14	Spontaneous interface engineering for dopant-free poly(3-hexylthiophene) perovskite solar cells with efficiency over 24%. <i>Energy and Environmental Science</i> , 2021, 14, 2419-2428.	15.6	152
15	Effects of stretching on the molecular packing structure of conjugated polymers with hydrogen bonding. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15132-15140.	2.7	6
16	Microstructural Evaluation of Phase Instability in Large Bandgap Metal Halide Perovskites. <i>ACS Nano</i> , 2021, 15, 20391-20402.	7.3	8
17	Efficient n-i-p Monolithic Perovskite/Silicon Tandem Solar Cells with Tin Oxide via a Chemical Bath Deposition Method. <i>Energies</i> , 2021, 14, 7614.	1.6	7
18	Effects of photon recycling and scattering in high-performance perovskite solar cells. <i>Science Advances</i> , 2021, 7, eabj1363.	4.7	17

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19	Recent Progress in Metal Halide Perovskite-Based Tandem Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2002228.	11.1	39
20	Photon recycling in halide perovskite solar cells for higher efficiencies. <i>MRS Bulletin</i> , 2020, 45, 439-448.	1.7	20
21	Highly Efficient Large-Area Organic Photovoltaic Module with a 350 nm Thick Active Layer Using a Random Terpolymer Donor. <i>Chemistry of Materials</i> , 2020, 32, 3469-3479.	3.2	19
22	Waste Liquid-Crystal Display Glass-Directed Fabrication of Silicon Particles for Lithium-Ion Battery Anodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 15329-15338.	3.2	13
23	Impact of Electrode Materials on Process Environmental Stability of Efficient Perovskite Solar Cells. <i>Joule</i> , 2019, 3, 1977-1985.	11.7	25
24	Band Alignment Engineering between Planar SnO ₂ and Halide Perovskites via Two-Step Annealing. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6545-6550.	2.1	28
25	Ternary diagrams of the phase, optical bandgap energy and photoluminescence of mixed-halide perovskites. <i>Acta Materialia</i> , 2019, 181, 460-469.	3.8	14
26	Carrier-resolved photo-Hall effect. <i>Nature</i> , 2019, 575, 151-155.	13.7	66
27	Single-Solution Bar-Coated Halide Perovskite Films via Mediating Crystallization for Scalable Solar Cell Fabrication. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 11537-11544.	4.0	21
28	Efficient, stable and scalable perovskite solar cells using poly(3-hexylthiophene). <i>Nature</i> , 2019, 567, 511-515.	13.7	1,867
29	Transparent Sn-doped In ₂ O ₃ electrodes with a nanoporous surface for enhancing the performance of perovskite solar cells. <i>Journal of Power Sources</i> , 2019, 418, 152-161.	4.0	17
30	Energy-level engineering of the electron transporting layer for improving open-circuit voltage in dye and perovskite-based solar cells. <i>Energy and Environmental Science</i> , 2019, 12, 958-964.	15.6	116
31	Reducing Carrier Density in Formamidinium Tin Perovskites and Its Beneficial Effects on Stability and Efficiency of Perovskite Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 46-53.	8.8	158
32	Simultaneous Ligand Exchange Fabrication of Flexible Perovskite Solar Cells using Newly Synthesized Uniform Tin Oxide Quantum Dots. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5460-5467.	2.1	31
33	Highly Durable and Flexible Transparent Electrode for Flexible Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30706-30715.	4.0	46
34	Fast two-step deposition of perovskite <i>via</i> mediator extraction treatment for large-area, high-performance perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12447-12454.	5.2	83
35	Cold-spray coating of hydroxyapatite on a three-dimensional polyetheretherketone implant and its biocompatibility evaluated by <i>in vitro</i> and <i>in vivo</i> minipig model. , 2017, 105, 647-657.		48
36	Spatial Distribution of Lead Iodide and Local Passivation on Organo-Lead Halide Perovskite. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 6072-6078.	4.0	62

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37	Colloidally prepared La-doped BaSnO ₃ electrodes for efficient, photostable perovskite solar cells. <i>Science</i> , 2017, 356, 167-171.	6.0	1,045
38	Engineering interface structures between lead halide perovskite and copper phthalocyanine for efficient and stable perovskite solar cells. <i>Energy and Environmental Science</i> , 2017, 10, 2109-2116.	15.6	169
39	Iodide management in formamidinium-lead-halide-based perovskite layers for efficient solar cells. <i>Science</i> , 2017, 356, 1376-1379.	6.0	4,721
40	Controllable synthesis of single crystalline Sn-based oxides and their application in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 79-86.	5.2	45
41	Indolo[3,2-b]indole-based crystalline hole-transporting material for highly efficient perovskite solar cells. <i>Chemical Science</i> , 2017, 8, 734-741.	3.7	102
42	Beneficial Effects of PbI ₂ Incorporated in Organo-lead Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1502104.	10.2	387
43	Tailoring of Electron-Collecting Oxide Nanoparticulate Layer for Flexible Perovskite Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1845-1851.	2.1	93
44	Thermal Stability of CuSCN Hole Conductor-based Perovskite Solar Cells. <i>ChemSusChem</i> , 2016, 9, 2592-2596.	3.6	154
45	Rational Strategies for Efficient Perovskite Solar Cells. <i>Accounts of Chemical Research</i> , 2016, 49, 562-572.	7.6	311
46	Fabrication of Efficient Formamidinium Tin Iodide Perovskite Solar Cells through SnF ₂ -Pyrazine Complex. <i>Journal of the American Chemical Society</i> , 2016, 138, 3974-3977.	6.6	658
47	Steps toward efficient inorganic-organic hybrid perovskite solar cells. <i>MRS Bulletin</i> , 2015, 40, 648-653.	1.7	33
48	Efficient CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells Employing Nanostructured p-type NiO Electrode Formed by a Pulsed Laser Deposition. <i>Advanced Materials</i> , 2015, 27, 4013-4019.	11.1	485
49	Effective Electron Blocking of CuPCl ₂ -Doped Spiro-OMeTAD for Highly Efficient Inorganic-Organic Hybrid Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1501320.	10.2	84
50	High-performance photovoltaic perovskite layers fabricated through intramolecular exchange. <i>Science</i> , 2015, 348, 1234-1237.	6.0	5,529
51	Synthesis of carbon-incorporated titanium oxide nanocrystals by pulsed solution plasma: electrical, optical investigation and nanocrystals analysis. <i>RSC Advances</i> , 2015, 5, 9497-9502.	1.7	4
52	Compositional engineering of perovskite materials for high-performance solar cells. <i>Nature</i> , 2015, 517, 476-480.	18.7	5,478
53	Fabrication of metal-oxide-free CH ₃ NH ₃ PbI ₃ perovskite solar cells processed at low temperature. <i>Journal of Materials Chemistry A</i> , 2015, 3, 3271-3275.	5.2	162
54	High-performance flexible perovskite solar cells exploiting Zn ₂ SnO ₄ prepared in solution below 100 °C. <i>Nature Communications</i> , 2015, 6, 7410.	5.8	417

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55	Sb ₂ Se ₃ -Sensitized Inorganic/Organic Heterojunction Solar Cells Fabricated Using a Single-Source Precursor. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1329-1333.	7.2	145
56	A Hierarchically Organized Photoelectrode Architecture for Highly Efficient CdS/CdSe-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1300395.	10.2	10
57	In ₂ O ₃ :Sn/TiO ₂ /CdS heterojunction nanowire array photoanode in photoelectrochemical cells. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17473-17480.	3.8	20
58	3-D TiO ₂ nanoparticle/ITO nanowire nanocomposite antenna for efficient charge collection in solid state dye-sensitized solar cells. <i>Nanoscale</i> , 2014, 6, 6127-6132.	2.8	30
59	PbS Colloidal Quantum-Dot-Sensitized Inorganic/Organic Hybrid Solar Cells with Radial-Directional Charge Transport. <i>ChemPhysChem</i> , 2014, 15, 1024-1027.	1.0	17
60	<i>o</i> -Methoxy Substituents in Spiro-OMeTAD for Efficient Inorganic/Organic Hybrid Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 7837-7840.	6.6	702
61	Voltage output of efficient perovskite solar cells with high open-circuit voltage and fill factor. <i>Energy and Environmental Science</i> , 2014, 7, 2614-2618.	15.6	692
62	Efficient Inorganic/Organic Heterojunction Solar Cells Employing Sb ₂ (S _x /Se _{1-x}) ₃ Graded-Composition Sensitizers. <i>Advanced Energy Materials</i> , 2014, 4, 1301680.	10.2	123
63	Transparent-conducting-oxide nanowire arrays for efficient photoelectrochemical energy conversion. <i>Nanoscale</i> , 2014, 6, 8649.	2.8	7
64	Highly Improved Sb ₂ S ₃ Sensitized Inorganic/Organic Heterojunction Solar Cells and Quantification of Traps by Deep-Level Transient Spectroscopy. <i>Advanced Functional Materials</i> , 2014, 24, 3587-3592.	7.8	454
65	Well-Organized Mesoporous TiO ₂ Photoelectrodes by Block Copolymer-Induced Sol-Gel Assembly for Inorganic/Organic Hybrid Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16688-16693.	1.5	49
66	Solvent engineering for high-performance inorganic/organic hybrid perovskite solar cells. <i>Nature Materials</i> , 2014, 13, 897-903.	13.3	5,796
67	Heterojunction Fe ₂ O ₃ -SnO ₂ Nanostructured Photoanode for Efficient Photoelectrochemical Water Splitting. <i>Jom</i> , 2014, 66, 664-669.	0.9	16
68	Nanostructured Ti-doped hematite (Î±-Fe ₂ O ₃) photoanodes for efficient photoelectrochemical water oxidation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17501-17507.	3.8	52
69	Benefits of very thin PCBM and LiF layers for solution-processed p-i-n perovskite solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 2642-2646.	15.6	622
70	Nanostructured TiO ₂ /CH ₃ NH ₃ PbI ₃ heterojunction solar cells employing spiro-OMeTAD/Co-complex as hole-transporting material. <i>Journal of Materials Chemistry A</i> , 2013, 1, 11842.	5.2	301
71	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.	1.4	41
72	Preparation and characterization of nano-sized Y ₃ Al ₅ O ₁₂ :Ce ³⁺ phosphor by high-energy milling process. <i>Current Applied Physics</i> , 2013, 13, S69-S74.	1.1	16

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73	Efficient Inorganic-Organic Hybrid Perovskite Solar Cells Based on Pyrene Arylamine Derivatives as Hole-Transporting Materials. <i>Journal of the American Chemical Society</i> , 2013, 135, 19087-19090.	6.6	512
74	Quaternary semiconductor Cu ₂ FeSnS ₄ nanoparticles as an alternative to Pt catalysts. <i>RSC Advances</i> , 2013, 3, 24918.	1.7	29
75	Chemical Management for Colorful, Efficient, and Stable Inorganic-Organic Hybrid Nanostructured Solar Cells. <i>Nano Letters</i> , 2013, 13, 1764-1769.	4.5	4,144
76	Efficient inorganic-organic hybrid heterojunction solar cells containing perovskite compound and polymeric hole conductors. <i>Nature Photonics</i> , 2013, 7, 486-491.	15.6	2,423
77	TiO ₂ nanocrystals shell layer on highly conducting indium tin oxide nanowire for photovoltaic devices. <i>Nanoscale</i> , 2013, 5, 3520.	2.8	12
78	In vitro and in vivo evaluation of the bioactivity of hydroxyapatite-coated polyetheretherketone biocomposites created by cold spray technology. <i>Acta Biomaterialia</i> , 2013, 9, 6177-6187.	4.1	171
79	Fabrication of CuInTe ₂ and CuInTe _{2-x} Se _x Ternary Gradient Quantum Dots and Their Application to Solar Cells. <i>ACS Nano</i> , 2013, 7, 4756-4763.	7.3	86
80	Tin doped indium oxide core-TiO ₂ shell nanowires on stainless steel mesh for flexible photoelectrochemical cells. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	25
81	Influence of Niobium Doping in Hierarchically Organized Titania Nanostructure on Performance of Dye-Sensitized Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 5091-5095.	0.9	10
82	Aligned Photoelectrodes with Large Surface Area Prepared by Pulsed Laser Deposition. <i>Journal of Physical Chemistry C</i> , 2012, 116, 8102-8110.	1.5	29
83	Luminescent characteristics of green emitting Li ₂ Ca ₂ Si ₂ O ₇ :Eu ²⁺ phosphor. <i>Materials Letters</i> , 2012, 79, 112-115.	1.3	23
84	Transmittance optimized nb-doped TiO ₂ /Sn-doped In ₂ O ₃ multilayered photoelectrodes for dye-sensitized solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2012, 96, 276-280.	3.0	35
85	General Strategy for Fabricating Transparent TiO ₂ Nanotube Arrays for Dye-Sensitized Photoelectrodes: Illumination Geometry and Transport Properties. <i>ACS Nano</i> , 2011, 5, 2647-2656.	7.3	109
86	Nanowire-Based Three-Dimensional Transparent Conducting Oxide Electrodes for Extremely Fast Charge Collection. <i>Advanced Energy Materials</i> , 2011, 1, 829-835.	10.2	50
87	3D Transparent Conducting Oxides: Nanowire-Based Three-Dimensional Transparent Conducting Oxide Electrodes for Extremely Fast Charge Collection (<i>Adv. Energy Mater.</i> 5/2011). <i>Advanced Energy Materials</i> , 2011, 1, 702-702.	10.2	0
88	Preparation and photoluminescence properties of KCaPO_4 : Eu ²⁺ phosphors for near UV-based white LEDs. <i>Optical Materials</i> , 2011, 33, 1036-1040.	1.7	41
89	Synthesis and photoactivity of hetero-nanostructured SrTiO ₃ . <i>Journal of the Ceramic Society of Japan</i> , 2010, 118, 876-880.	0.5	15
90	Effects of carbon content on the photocatalytic activity of C/BiVO ₄ composites under visible light irradiation. <i>Materials Chemistry and Physics</i> , 2010, 119, 106-111.	2.0	54

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91	Correlation of anatase particle size with photocatalytic properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 2288-2291.	0.8	17
92	Enhancing the Densification of Nanocrystalline TiO ₂ by Reduction in Spark Plasma Sintering. <i>Journal of the American Ceramic Society</i> , 2010, 93, 993-997.	1.9	14
93	A Newly Designed Nb-Doped TiO ₂ /Al-Doped ZnO Transparent Conducting Oxide Multilayer for Electrochemical Photoenergy Conversion Devices. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13867-13871.	1.5	30
94	Facile Hydrothermal Synthesis of SrNb ₂ O ₆ Nanotubes with Rhombic Cross Sections. <i>Crystal Growth and Design</i> , 2010, 10, 2447-2450.	1.4	9
95	Synthesis and Characterization of Nano-Particulate BaTiO ₃ for Ceramic/Polymer Composite Capacitor. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 1361-1366.	0.9	3
96	SrNb ₂ O ₆ nanotubes with enhanced photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2010, 20, 3979.	6.7	28
97	Tailoring the Morphology and Structure of Nanosized Zn ₂ SiO ₄ :Mn ²⁺ Phosphors Using the Hydrothermal Method and Their Luminescence Properties. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10330-10335.	1.5	54
98	Al-Doped ZnO Thin Film: A New Transparent Conducting Layer for ZnO Nanowire-Based Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7185-7189.	1.5	134
99	Structure and dielectric properties of cubic Bi ₂ (Zn ¹⁺ •3Ta ²⁺ •3)O ₇ thin films. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	0
100	Enhanced photovoltaic properties of overlayer-coated nanocrystalline TiO ₂ dye-sensitized solar cells (DSSCs). <i>Journal of Electroceramics</i> , 2009, 23, 422-425.	0.8	32
101	Electrical and optical properties of epitaxial and polycrystalline undoped and Al-doped ZnO thin films grown by pulsed laser deposition. <i>Journal of Electroceramics</i> , 2009, 23, 497-501.	0.8	6
102	Photoluminescence and electrical properties of epitaxial Al-doped ZnO transparent conducting thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2133-2138.	0.8	14
103	Indium-Tin Oxide-Based Transparent Conducting Layers for Highly Efficient Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7443-7447.	1.5	35
104	Synthesis of CdSe-TiO ₂ Nanocomposites and Their Applications to TiO ₂ Sensitized Solar Cells. <i>Langmuir</i> , 2009, 25, 5348-5351.	1.6	56
105	Functional Multilayered Transparent Conducting Oxide Thin Films for Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1083-1087.	1.5	60
106	Nb-Doped TiO ₂ : A New Compact Layer Material for TiO ₂ Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6878-6882.	1.5	210
107	Synthesis of Cu ₂ PO ₄ OH Hierarchical Superstructures with Photocatalytic Activity in Visible Light. <i>Advanced Functional Materials</i> , 2008, 18, 2154-2162.	7.8	141
108	Low-Temperature Hydrothermal Synthesis of Pure BiFeO ₃ Nanopowders Using Triethanolamine and Their Applications as Visible-Light Photocatalysts. <i>Journal of the American Ceramic Society</i> , 2008, 91, 3753-3755.	1.9	112

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109	Visible-Light-Induced Photocatalytic Activity in FeNbO ₄ Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 18393-18398.	1.5	45
110	Mobility Enhanced Photoactivity in Sol-Gel Grown Epitaxial Anatase TiO ₂ Films. Langmuir, 2008, 24, 2695-2698.	1.6	26
111	Reversible change in electrical and optical properties in epitaxially grown Al-doped ZnO thin films. Journal of Applied Physics, 2008, 104, .	1.1	27
112	Seed-layer mediated orientation evolution in dielectric Bi ₂ ZnTiNbO thin films. Applied Physics Letters, 2007, 91, 232903.	1.5	4
113	Effects of Ta-substitution on the dielectric properties of Ba ₆ Ti ₂ (Nb _{1-x} Tax) ₈ O ₃₀ thin films. Journal of the European Ceramic Society, 2007, 27, 2927-2931.	2.8	2
114	Microwave dielectric properties of nanocrystalline TiO ₂ prepared using spark plasma sintering. Journal of the European Ceramic Society, 2007, 27, 2937-2940.	2.8	34
115	Dielectric properties of nanocrystalline TiO ₂ prepared using spark plasma sintering. Journal of Electroceramics, 2006, 17, 913-917.	0.8	10
116	Influence of stress on structural and dielectric anomaly of Bi ₂ (Zn _{1/3} Ta _{2/3}) ₂ O ₇ thin films. Materials Research Society Symposia Proceedings, 2005, 875, 1.	0.1	0
117	Steady-State Transporting Properties of Halide Perovskite Thin Films under 1 sun through Photo-Hall Effect Measurement. Journal of Physical Chemistry C, 0, , .	1.5	2