

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

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118
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118
docs citations

118
times ranked

25141
citing authors

#	ARTICLE	IF	CITATIONS
1	Solvent engineering for high-performance inorganic–organic hybrid perovskite solar cells. <i>Nature Materials</i> , 2014, 13, 897-903.	13.3	5,796
2	High-performance photovoltaic perovskite layers fabricated through intramolecular exchange. <i>Science</i> , 2015, 348, 1234-1237.	6.0	5,529
3	Compositional engineering of perovskite materials for high-performance solar cells. <i>Nature</i> , 2015, 517, 476-480.	13.7	5,478
4	Iodide management in formamidinium-lead-halide–based perovskite layers for efficient solar cells. <i>Science</i> , 2017, 356, 1376-1379.	6.0	4,721
5	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
6	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
7	Efficient, stable and scalable perovskite solar cells using poly(3-hexylthiophene). <i>Nature</i> , 2019, 567, 511-515.	13.7	1,867
8	Colloidally prepared La-doped BaSnO ₃ electrodes for efficient, photostable perovskite solar cells. <i>Science</i> , 2017, 356, 167-171.	6.0	1,045
9	<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
10	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
11	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
12	Benefits of very thin PCBM and LiF layers for solution-processed p–n perovskite solar cells. <i>Energy and Environmental Science</i> , 2014, 7, 2642-2646.	15.6	622
13	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
14	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
15	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
16	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
17	Beneficial Effects of PbI ₂ Incorporated in Organo–Lead Halide Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2016, 6, 1502104.	10.2	387
18	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

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19	Rational Strategies for Efficient Perovskite Solar Cells. <i>Accounts of Chemical Research</i> , 2016, 49, 562-572.	7.6	311
20	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
21	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
22	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
23	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
24	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
25	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
26	Thermal Stability of CuSCN Hole Conductor-Based Perovskite Solar Cells. <i>ChemSusChem</i> , 2016, 9, 2592-2596.	3.6	154
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	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

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37	Fabrication of $\text{CuInTe}_{2-x}\text{Se}_x$ Ternary Gradient Quantum Dots and Their Application to Solar Cells. <i>ACS Nano</i> , 2013, 7, 4756-4763.	7.3	86
38	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
39	Fast two-step deposition of perovskite via 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
40	Carrier-resolved photo-Hall effect. <i>Nature</i> , 2019, 575, 151-155.	13.7	66
41	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
42	Functional Multilayered Transparent Conducting Oxide Thin Films for Photovoltaic Devices. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1083-1087.	1.5	60
43	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
44	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
45	Tailoring the Morphology and Structure of Nanosized Zn_2SiO_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
46	Nanostructured Ti-doped hematite (Fe_2O_3) photoanodes for efficient photoelectrochemical water oxidation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17501-17507.	3.8	52
47	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
48	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
49	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
50	Highly Durable and Flexible Transparent Electrode for Flexible Optoelectronic Applications. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30706-30715.	4.0	46
51	Visible-Light-Induced Photocatalytic Activity in FeNbO_4 Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008, 112, 18393-18398.	1.5	45
52	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
53	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
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.	1.4	41

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55	Recent Progress in Metal Halide Perovskite-Based Tandem Solar Cells. <i>Advanced Materials</i> , 2020, 32, e2002228.	11.1	39
56	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
57	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
58	Microwave dielectric properties of nanocrystalline TiO ₂ prepared using spark plasma sintering. <i>Journal of the European Ceramic Society</i> , 2007, 27, 2937-2940.	2.8	34
59	Steps toward efficient inorganic-organic hybrid perovskite solar cells. <i>MRS Bulletin</i> , 2015, 40, 648-653.	1.7	33
60	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
61	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
62	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
63	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
64	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
65	Quaternary semiconductor Cu ₂ FeSnS ₄ nanoparticles as an alternative to Pt catalysts. <i>RSC Advances</i> , 2013, 3, 24918.	1.7	29
66	SrNb ₂ O ₆ nanotubes with enhanced photocatalytic activity. <i>Journal of Materials Chemistry</i> , 2010, 20, 3979.	6.7	28
67	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
68	Reversible change in electrical and optical properties in epitaxially grown Al-doped ZnO thin films. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	27
69	Mobility Enhanced Photoactivity in Sol-Gel Grown Epitaxial Anatase TiO ₂ Films. <i>Langmuir</i> , 2008, 24, 2695-2698.	1.6	26
70	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
71	Impact of Electrode Materials on Process Environmental Stability of Efficient Perovskite Solar Cells. <i>Joule</i> , 2019, 3, 1977-1985.	11.7	25
72	Transferable transparent electrodes of liquid metals for bifacial perovskite solar cells and heaters. <i>Nano Energy</i> , 2022, 93, 106857.	8.2	24

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73	Luminescent characteristics of green emitting Li ₂ Ca ₂ Si ₂ O ₇ :Eu ²⁺ phosphor. Materials Letters, 2012, 79, 112-115.	1.3	23
74	Single-Solution Bar-Coated Halide Perovskite Films via Mediating Crystallization for Scalable Solar Cell Fabrication. ACS Applied Materials & Interfaces, 2019, 11, 11537-11544.	4.0	21
75	High-Performance Cold Cathode X-ray Tubes Using a Carbon Nanotube Field Electron Emitter. ACS Nano, 2022, 16, 10231-10241.	7.3	21
76	In ₂ O ₃ :Sn/TiO ₂ /CdS heterojunction nanowire array photoanode in photoelectrochemical cells. International Journal of Hydrogen Energy, 2014, 39, 17473-17480.	3.8	20
77	Photon recycling in halide perovskite solar cells for higher efficiencies. MRS Bulletin, 2020, 45, 439-448.	1.7	20
78	Simultaneous Enhanced Efficiency and Stability of Perovskite Solar Cells Using Adhesive Fluorinated Polymer Interfacial Material. ACS Applied Materials & Interfaces, 2021, 13, 35595-35605.	4.0	20
79	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.	3.2	19
80	Correlation of anatase particle size with photocatalytic properties. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2288-2291.	0.8	17
81	PbS Colloidal Quantum Dot-Sensitized Inorganic-Organic Hybrid Solar Cells with Radial-Directional Charge Transport. ChemPhysChem, 2014, 15, 1024-1027.	1.0	17
82	Transparent Sn-doped In ₂ O ₃ electrodes with a nanoporous surface for enhancing the performance of perovskite solar cells. Journal of Power Sources, 2019, 418, 152-161.	4.0	17
83	Effects of photon recycling and scattering in high-performance perovskite solar cells. Science Advances, 2021, 7, eabj1363.	4.7	17
84	Preparation and characterization of nano-sized Y ₃ Al ₅ O ₁₂ :Ce ³⁺ phosphor by high-energy milling process. Current Applied Physics, 2013, 13, S69-S74.	1.1	16
85	Heterojunction Fe ₂ O ₃ -SnO ₂ Nanostructured Photoanode for Efficient Photoelectrochemical Water Splitting. Jom, 2014, 66, 664-669.	0.9	16
86	Synthesis and photoactivity of hetero-nanostructured SrTiO ₃ . Journal of the Ceramic Society of Japan, 2010, 118, 876-880.	0.5	15
87	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.	0.8	14
88	Enhancing the Densification of Nanocrystalline TiO ₂ by Reduction in Spark Plasma Sintering. Journal of the American Ceramic Society, 2010, 93, 993-997.	1.9	14
89	Ternary diagrams of the phase, optical bandgap energy and photoluminescence of mixed-halide perovskites. Acta Materialia, 2019, 181, 460-469.	3.8	14
90	Perovskite/Silicon Tandem Solar Cells with a <i>V_{oc}</i> of 1784 mV Based on an Industrially Feasible 25 cm ² TOPCon Silicon Cell. ACS Applied Energy Materials, 2022, 5, 5449-5456.	2.5	14

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91	Waste Liquid-Crystal Display Glass-Directed Fabrication of Silicon Particles for Lithium-Ion Battery Anodes. ACS Sustainable Chemistry and Engineering, 2019, 7, 15329-15338.	3.2	13
92	TiO ₂ nanocrystals shell layer on highly conducting indium tin oxide nanowire for photovoltaic devices. Nanoscale, 2013, 5, 3520.	2.8	12
93	Tailoring of Ligand-Off Nanoparticles Inks for Thin p-type Oxide Overlayers Formation with Maintaining Intact Halide Perovskite. Advanced Functional Materials, 2021, 31, 2100863.	7.8	11
94	Important role of alloyed polymer acceptor for high efficiency and stable large-area organic photovoltaics. Nano Energy, 2022, 98, 107187.	8.2	11
95	Oxide/Halide/Oxide Architecture for High Performance Semi-transparent Perovskite Solar Cells. Advanced Energy Materials, 2022, 12, .	10.2	11
96	Dielectric properties of nanocrystalline TiO ₂ prepared using spark plasma sintering. Journal of Electroceramics, 2006, 17, 913-917.	0.8	10
97	Influence of Niobium Doping in Hierarchically Organized Titania Nanostructure on Performance of Dye-Sensitized Solar Cells. Journal of Nanoscience and Nanotechnology, 2012, 12, 5091-5095.	0.9	10
98	A Hierarchically Organized Photoelectrode Architecture for Highly Efficient CdS/CdSe-Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1300395.	10.2	10
99	Facile Hydrothermal Synthesis of SrNb ₂ O ₆ Nanotubes with Rhombic Cross Sections. Crystal Growth and Design, 2010, 10, 2447-2450.	1.4	9
100	Recent Progress in the Semiconducting Oxide Overlayer for Halide Perovskite Solar Cells. Advanced Energy Materials, 2021, 11, 2003119.	10.2	9
101	Microstructural Evaluation of Phase Instability in Large Bandgap Metal Halide Perovskites. ACS Nano, 2021, 15, 20391-20402.	7.3	8
102	Transparent-conducting-oxide nanowire arrays for efficient photoelectrochemical energy conversion. Nanoscale, 2014, 6, 8649.	2.8	7
103	Efficient n-i-p Monolithic Perovskite/Silicon Tandem Solar Cells with Tin Oxide via a Chemical Bath Deposition Method. Energies, 2021, 14, 7614.	1.6	7
104	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.	0.8	6
105	Effects of stretching on the molecular packing structure of conjugated polymers with hydrogen bonding. Journal of Materials Chemistry C, 2021, 9, 15132-15140.	2.7	6
106	Solar-Driven Simultaneous Electrochemical CO ₂ Reduction and Water Oxidation Using Perovskite Solar Cells. Energies, 2022, 15, 270.	1.6	6
107	Optimal Solvents for Interfacial Solution Engineering of Perovskite Solar Cells. Solar Rrl, 2022, 6, .	3.1	6
108	Seed-layer mediated orientation evolution in dielectric Bi ₂ Zn ₂ Ti ₂ Nb ₂ O thin films. Applied Physics Letters, 2007, 91, 232903.	1.5	4

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109	Synthesis of carbon-incorporated titanium oxide nanocrystals by pulsed solution plasma: electrical, optical investigation and nanocrystals analysis. RSC Advances, 2015, 5, 9497-9502.	1.7	4
110	Suppressing Halide Segregation in Wide-Band-Gap Mixed-Halide Perovskite Layers through Post-Hot Pressing. ACS Applied Materials & Interfaces, 2022, , .	4.0	4
111	Synthesis and Characterization of Nano-Particulate BaTiO ₃ for Ceramic/Polymer Composite Capacitor. Journal of Nanoscience and Nanotechnology, 2010, 10, 1361-1366.	0.9	3
112	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
113	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
114	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
115	Structure and dielectric properties of cubic Bi ₂ (Zn _{1/3} Ta _{2/3}) ₂ O ₇ thin films. Journal of Applied Physics, 2009, 106, .	1.1	0
116	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.	10.2	0
117	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.	7.8	0