

Man-Jong Lee

List of Publications by Year in descending order

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48
papers

753
citations

566801

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552369

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all docs

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48
times ranked

1130
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of carbon-free B ₄ C powder from B ₂ O ₃ oxide by carbothermal reduction process. <i>Materials Letters</i> , 2004, 58, 609-614.	1.3	105
2	Reaction kinetics and formation mechanism of magnesium ferrites. <i>Thermochimica Acta</i> , 2005, 425, 131-136.	1.2	56
3	Highly Efficient Amorphous Zn ₂ SnO ₄ Electron-Selective Layers Yielding over 20% Efficiency in FAPbI ₃ -Based Planar Solar Cells. <i>ACS Energy Letters</i> , 2018, 3, 2410-2417.	8.8	54
4	Preparation and electrochemical properties of surface-charge-modified Zn ₂ SnO ₄ nanoparticles as anodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2012, 76, 192-200.	2.6	47
5	Properties of hydrothermally synthesized Zn ₂ SnO ₄ nanoparticles using Na ₂ CO ₃ as a novel mineralizer. <i>Materials Characterization</i> , 2010, 61, 873-881.	1.9	45
6	Surface properties and dye loading behavior of Zn ₂ SnO ₄ nanoparticles hydrothermally synthesized using different mineralizers. <i>Materials Characterization</i> , 2011, 62, 1007-1015.	1.9	33
7	Efficient composition tuning via cation exchange and improved reproducibility of photovoltaic performance in FA MA1-PbI ₃ planar heterojunction solar cells fabricated by a two-step dynamic spin-coating process. <i>Nano Energy</i> , 2018, 54, 251-263.	8.2	32
8	Characteristics of a new type of solid-state electrolyte with a LiPON interlayer for Li-ion thin film batteries. <i>Solid State Ionics</i> , 2010, 181, 902-906.	1.3	28
9	Influence of a UV-ozone treatment on amorphous SnO ₂ electron selective layers for highly efficient planar MAPbI ₃ perovskite solar cells. <i>Journal of Materials Science and Technology</i> , 2020, 59, 195-202.	5.6	28
10	Influence of Lewis base HMPA on the properties of efficient planar MAPbI ₃ solar cells fabricated by one-step process assisted by Lewis acid-base adduct approach. <i>Chemical Engineering Journal</i> , 2020, 380, 122436.	6.6	24
11	Synergistic passivation of MAPbI ₃ perovskite solar cells by compositional engineering using acetamidinium bromide additives. <i>Journal of Energy Chemistry</i> , 2021, 59, 755-762.	7.1	21
12	Characteristics of thin film supercapacitor with ruthenium oxide electrode and Ta ₂ O _{5+x} solid oxide thin film electrolyte. <i>Journal of Electroceramics</i> , 2006, 17, 639-643.	0.8	18
13	Characterization of Li ⁺ -V ⁵⁺ O nanorod phases and their effect on electrochemical properties of Li _{1+x} V ₃ O ₈ cathode materials synthesized by hydrothermal reaction and subsequent heat treatment. <i>Electrochimica Acta</i> , 2013, 89, 708-716.	2.6	18
14	Solution-processed flexible planar perovskite solar cells: A strategy to enhance efficiency by controlling the ZnO electron transfer layer, PbI ₂ phase, and CH ₃ NH ₃ PbI ₃ morphologies. <i>Journal of Power Sources</i> , 2016, 324, 142-149.	4.0	17
15	Influence of defects and nanoscale strain on the photovoltaic properties of CdS/CdSe nanocomposite co-sensitized ZnO nanowire solar cells. <i>Electrochimica Acta</i> , 2016, 220, 500-510.	2.6	17
16	Properties of Mn-doped BaTi ₄ O ₉ -ZnO-Ta ₂ O ₅ ceramics. <i>Journal of Materials Science: Materials in Electronics</i> , 1995, 6, 165-172.	1.1	16
17	ZnS-Passivated CdSe/CdS Co-sensitized Mesoporous Zn ₂ SnO ₄ Based Solar Cells. <i>Electrochimica Acta</i> , 2014, 121, 223-232.	2.6	15
18	Ambient-air fabrication of stable mixed cation perovskite planar solar cells with efficiencies exceeding 22% using a synergistic mixed antisolvent with complementary properties. <i>Nano Energy</i> , 2021, 89, 106387.	8.2	14

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19	Effect of manganese dopants on defects, nano-strain, and photovoltaic performance of Mn ²⁺ /CdS/CdSe nanocomposite-sensitized ZnO nanowire solar cells. <i>Composites Science and Technology</i> , 2019, 179, 79-87.	3.8	13
20	Highly luminescent and stable CH ₃ NH ₃ PbBr ₃ quantum dots with 91.7% photoluminescence quantum yield: Role of guanidinium bromide dopants. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154990.	2.8	13
21	Structural and Electrochemical Properties of ZrO ₂ -H _x Thin Films Deposited by Reactive Sputtering in Hydrogen Atmosphere as Solid Electrolytes. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 5144-5148.	0.8	12
22	Fabrication and frequency response of dual-element ultrasonic transducer using PZT-5A thick film. <i>Sensors and Actuators A: Physical</i> , 2006, 125, 463-470.	2.0	11
23	Investigation on self-aligned HgTe nano-crystals induced by controlled precipitation in PbTe ^{1-x} HgTe ^x quasi-binary compound semiconductor alloys. <i>Physica B: Condensed Matter</i> , 2001, 304, 267-275.	1.3	8
24	Colored MAPbI ₃ perovskite solar cells based on SnO ₂ /SiO ₂ distributed Bragg reflectors. <i>Materials Letters</i> , 2021, 282, 128828.	1.3	8
25	Amorphous AlO ₃ /SnO ₂ nanocomposite electron-selective layers yielding over 21% efficiency in ambient-air-processed MAPbI ₃ -based planar solar cells. <i>Chemical Engineering Journal</i> , 2021, 409, 128215.	6.6	8
26	Piezoelectric properties of interconnected porous Pb _{0.76} Ca _{0.24} Ti _{0.96} (Co _{0.5} W _{0.5}) _{0.04} O ₃ ceramics. <i>Ferroelectrics</i> , 1991, 119, 53-60.	0.3	7
27	Formation of HgTe Nanodisks Embedded in PbTe Matrix by Precipitation Phenomena. <i>Nano Letters</i> , 2003, 3, 1607-1610.	4.5	7
28	Template-assisted solvothermal assembly of size-controlled hierarchical V ₂ O ₅ hollow microspheres with tunable nanoscale building blocks and their enhanced lithium storage properties. <i>Electrochimica Acta</i> , 2017, 258, 942-950.	2.6	7
29	Tuning the Morphology and Properties of Nanostructured Cu-ZnO Thin Films Using a Two-Step Sputtering Technique. <i>Metals</i> , 2020, 10, 437.	1.0	7
30	Novel Intense-pulsed-light synthesis of amorphous SnO ₂ electron-selective layers for efficient planar MAPbI ₃ perovskite solar cells. <i>Journal of Materials Science and Technology</i> , 2021, 92, 171-177.	5.6	7
31	Surface Reaction Mechanism of Acetonitrile on Doped SnO ₂ Sensor Element and Its Response Behavior. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 2119-2121.	0.8	6
32	Reaction sequence and electrochemical properties of lithium vanadium oxide cathode materials synthesized via a hydrothermal reaction. <i>Ceramics International</i> , 2013, 39, 1623-1629.	2.3	6
33	Influence of spin-coating methods on the properties of planar solar cells based on ambient-air-processed triple-cation mixed-halide perovskites. <i>Journal of Alloys and Compounds</i> , 2021, 879, 160373.	2.8	6
34	Effect of BaF ₂ as the source of Ba component and flux material in the preparation of Ba _{1.1} Sr _{0.88} SiO ₄ :Eu _{0.02} phosphor by spray pyrolysis. <i>Ceramics International</i> , 2010, 36, 339-343.	2.3	5
35	Highly luminescent CH ₃ NH ₃ PbBr ₃ quantum dots with 96.5% photoluminescence quantum yield achieved by synergistic combination of single-crystal precursor and capping ligand optimization. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157842.	2.8	5
36	Synthesis and characterization of NiFe ₂ O ₄ nanopowders via spray pyrolysis. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 1069-1073.	0.5	4

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37	Effect of reaction time on the morphology and efficiency of ambient-air-processed CsFAMAPbBr triple cation-mixed perovskite solar cells. <i>Materials Letters</i> , 2021, 292, 129623.	1.3	4
38	Antisolvent-assisted one-step solution synthesis of defect-less 1D MAPbI ₃ nanowire networks with improved charge transport dynamics. <i>Journal of Materials Research and Technology</i> , 2021, 13, 162-172.	2.6	4
39	Effect of Hydrogen Doping on Structural and Piezoelectric Properties of Sputtered ZnO Films. <i>Integrated Ferroelectrics</i> , 2005, 69, 431-442.	0.3	3
40	Characteristics of size controlled hydroxyapatite powders with nanometer size prepared by flame spray pyrolysis. <i>Journal of the Ceramic Society of Japan</i> , 2009, 117, 1060-1064.	0.5	3
41	Enhancing Bi ₂ S ₃ sensitised mesoporous TiO ₂ /CdS solar cells by co-sensitisation with Bi ₂ S ₃ /CdS quantum dots. <i>International Journal of Nanotechnology</i> , 2016, 13, 354.	0.1	3
42	Fabrication and frequency response of a complex ultrasonic transducer for multilayer evaluation. <i>Sensors and Actuators A: Physical</i> , 2006, 125, 223-233.	2.0	2
43	Characteristics of BaNd ₂ Ti ₅ O ₁₄ powders directly prepared by high-temperature spray pyrolysis. <i>Ceramics International</i> , 2010, 36, 63-68.	2.3	2
44	Microwave dielectric properties of Mn-doped BaTi ₄ O ₉ -ZnO-Ta ₂ O ₅ ceramics. <i>Ferroelectrics</i> , 1994, 154, 149-154.	0.3	1
45	Incorrect depth sense due to focused object distance. <i>Applied Optics</i> , 2011, 50, 2931.	2.1	1
46	Effect of processing parameters on photovoltaic properties of Sb ₂ S ₃ quantum dot-sensitised inorganic-organic heterojunction solar cells. <i>International Journal of Nanotechnology</i> , 2016, 13, 345.	0.1	1
47	Enhancement of the Current-Voltage Characteristics of ITO and Organic Semiconductors by Using a Simple Fume-Based Surface Modification. <i>Journal of the Korean Physical Society</i> , 2008, 53, 3283-3286.	0.3	1
48	Precipitation Behaviors of HgTe Nanoinclusions Formed in Thermoelectric PbTe: Initial Induced Lattice Mismatch, Theoretical Calculation and Experimental Verification. <i>Journal of the Korean Institute of Electrical and Electronic Material Engineers</i> , 2011, 24, 599-604.	0.0	0