

Myeong Hoon Jeong

List of Publications by Year in descending order

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36
papers

1,333
citations

430874

18
h-index

345221

36
g-index

39
all docs

39
docs citations

39
times ranked

2822
citing authors

#	ARTICLE	IF	CITATIONS
1	Colorful Transparent Silicon Photovoltaics with Unprecedented Flexibility. <i>Advanced Functional Materials</i> , 2022, 32, 2110435.	14.9	6
2	Catalysis-Free Growth of III-V Core-Shell Nanowires on p-Si for Efficient Heterojunction Solar Cells with Optimized Window Layer. <i>Energies</i> , 2022, 15, 1772.	3.1	4
3	Operation of Wearable Thermoelectric Generators Using Dual Sources of Heat and Light. <i>Advanced Science</i> , 2022, 9, e2104915.	11.2	17
4	Phase-Tuned MoS ₂ and Its Hybridization with Perovskite Oxide as Bifunctional Catalyst: A Rationale for Highly Stable and Efficient Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 18248-18260.	8.0	16
5	3D Multiple Triangular Prisms for Highly Sensitive Non-Contact Mode Triboelectric Bending Sensors. <i>Nanomaterials</i> , 2022, 12, 1499.	4.1	2
6	Graphene-Assisted Zwitterionic Conjugated Polycyclic Molecular Interfacial Layer Enables Highly Efficient and Stable Inverted Perovskite Solar Cells. <i>Chemistry of Materials</i> , 2021, 33, 5563-5571.	6.7	11
7	Toward All-vacuum-Processable Perovskite Solar Cells with High Efficiency, Stability, and Scalability Enabled by Fluorinated Spiro-OMeTAD through Thermal Evaporation. <i>Solar Rrl</i> , 2021, 5, 2100415.	5.8	10
8	Strategy for large-scale monolithic Perovskite/Silicon tandem solar cell: A review of recent progress. <i>EcoMat</i> , 2021, 3, e12084.	11.9	38
9	Quantitative evaluation of the antibacterial factors of ZnO nanorod arrays under dark conditions: Physical and chemical effects on Escherichia coli inactivation. <i>Science of the Total Environment</i> , 2020, 712, 136574.	8.0	25
10	Ambipolar Passivated Back Surface Field Layer for Silicon Photovoltaics. <i>Advanced Functional Materials</i> , 2020, 30, 2004943.	14.9	7
11	Triple layered Ga ₂ O ₃ /Cu ₂ O/Au photoanodes with enhanced photoactivity and stability prepared using iron nickel oxide catalysts. <i>Journal of Materials Chemistry A</i> , 2020, 8, 10966-10972.	10.3	5
12	3D Multiscale Gradient Pores Impregnated with Ag Nanowires for Simultaneous Pressure and Bending Detection with Enhanced Linear Sensitivity. <i>Advanced Materials Technologies</i> , 2020, 5, 1901041.	5.8	5
13	All-Transparent NO ₂ Gas Sensors Based on Freestanding Al-Doped ZnO Nanofibers. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1261-1268.	4.3	45
14	Stretchable and colorless freestanding microwire arrays for transparent solar cells with flexibility. <i>Light: Science and Applications</i> , 2019, 8, 121.	16.6	51
15	Enhanced efficiency of crystalline Si solar cells based on kerfless-thin wafers with nanohole arrays. <i>Scientific Reports</i> , 2018, 8, 3504.	3.3	25
16	Highly efficient and stable inverted perovskite solar cell employing PEDOT:GO composite layer as a hole transport layer. <i>Scientific Reports</i> , 2018, 8, 1070.	3.3	144
17	Increasing the thermoelectric power factor of solvent-treated PEDOT:PSS thin films on PDMS by stretching. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15621-15629.	10.3	49
18	Performance optimization in gate-tunable Schottky junction solar cells with a light transparent and electric-field permeable graphene mesh on n-Si. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3183-3187.	5.5	20

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19	Dominance of Plasmonic Resonant Energy Transfer over Direct Electron Transfer in Substantially Enhanced Water Oxidation Activity of BiVO ₄ by Shape-Controlled Au Nanoparticles. <i>Small</i> , 2017, 13, 1701644.	10.0	52
20	Preparation, characterization, and application of TiO ₂ -patterned polyimide film as a photocatalyst for oxidation of organic contaminants. <i>Journal of Hazardous Materials</i> , 2017, 340, 300-308.	12.4	36
21	3D Hierarchical Indium Tin Oxide Nanotrees for Enhancement of Light Extraction in GaN-Based Light-Emitting Diodes. <i>Advanced Optical Materials</i> , 2017, 5, 1600684.	7.3	14
22	Parallel Aligned Mesopore Arrays in Pyramidal-Shaped Gallium Nitride and Their Photocatalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18201-18207.	8.0	18
23	High-performance shape-engineerable thermoelectric painting. <i>Nature Communications</i> , 2016, 7, 13403.	12.8	122
24	Two-terminal DSSC/silicon tandem solar cells exceeding 18% efficiency. <i>Energy and Environmental Science</i> , 2016, 9, 3657-3665.	30.8	41
25	Substrate-immobilized electrospun TiO ₂ nanofibers for photocatalytic degradation of pharmaceuticals: The effects of pH and dissolved organic matter characteristics. <i>Water Research</i> , 2015, 86, 25-34.	11.3	66
26	High-Performance Planar Perovskite Optoelectronic Devices: A Morphological and Interfacial Control by Polar Solvent Treatment. <i>Advanced Materials</i> , 2015, 27, 3492-3500.	21.0	205
27	Graphene as an Interfacial Layer for Improving Cycling Performance of Si Nanowires in Lithium-Ion Batteries. <i>Nano Letters</i> , 2015, 15, 6658-6664.	9.1	69
28	GaN-based light-emitting diodes by laser lift-off with micro- and nano-sized reflectors. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, 050605.	2.1	4
29	Phase-Transition Temperatures of Strained Single-Crystal SrRuO ₃ Thin Films. <i>Advanced Materials</i> , 2010, 22, 759-762.	21.0	78
30	Fermi level pinning on Si _{0.83} Ge _{0.17} surface by inductively coupled plasma treatment. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 495.	1.6	5
31	Observation of inductively coupled-plasma-induced damage on n-type GaN using deep-level transient spectroscopy. <i>Applied Physics Letters</i> , 2003, 82, 1233-1235.	3.3	81
32	Degradation mechanism of Schottky diodes on inductively coupled plasma-etched n-type 4H-SiC. <i>Journal of Applied Physics</i> , 2003, 94, 1765-1768.	2.5	12
33	Effects of photowashing treatment on electrical properties of an AlGaIn/GaN heterostructure field-effect transistor. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 1574.	1.6	0
34	Characterization of Inductively-Coupled-Plasma Damage on n-Type GaN Using Deep-Level Transient Spectroscopy and Synchrotron Radiation Photoemission Spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2002, 234, 835-839.	1.5	2
35	Interpretation of transconductance dispersion in GaAs MESFET using deep level transient spectroscopy. <i>IEEE Transactions on Electron Devices</i> , 2001, 48, 190-195.	3.0	25
36	Determination of energy levels of surface states in GaAs metal-semiconductor field-effect transistor using deep-level transient spectroscopy. <i>Applied Physics Letters</i> , 1999, 74, 1108-1110.	3.3	20