Myeong Hoon Jeong

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1258537/publications.pdf

Version: 2024-02-01

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	Highâ€Performance Planar Perovskite Optoelectronic Devices: A Morphological and Interfacial Control by Polar Solvent Treatment. Advanced Materials, 2015, 27, 3492-3500.	21.0	205
2	Highly efficient and stable inverted perovskite solar cell employing PEDOT:GO composite layer as a hole transport layer. Scientific Reports, 2018, 8, 1070.	3.3	144
3	High-performance shape-engineerable thermoelectric painting. Nature Communications, 2016, 7, 13403.	12.8	122
4	Observation of inductively coupled-plasma-induced damage onn-type GaN using deep-level transient spectroscopy. Applied Physics Letters, 2003, 82, 1233-1235.	3.3	81
5	Phaseâ€Transition Temperatures of Strained Singleâ€Crystal SrRuO₃ Thin Films. Advanced Materials, 2010, 22, 759-762.	21.0	78
6	Graphene as an Interfacial Layer for Improving Cycling Performance of Si Nanowires in Lithium-Ion Batteries. Nano Letters, 2015, 15, 6658-6664.	9.1	69
7	Substrate-immobilized electrospun TiO2 nanofibers for photocatalytic degradation of pharmaceuticals: The effects of pH and dissolved organic matter characteristics. Water Research, 2015, 86, 25-34.	11.3	66
8	Dominance of Plasmonic Resonant Energy Transfer over Direct Electron Transfer in Substantially Enhanced Water Oxidation Activity of BiVO₄ by Shapeâ€Controlled Au Nanoparticles. Small, 2017, 13, 1701644.	10.0	52
9	Stretchable and colorless freestanding microwire arrays for transparent solar cells with flexibility. Light: Science and Applications, 2019, 8, 121.	16.6	51
10	Increasing the thermoelectric power factor of solvent-treated PEDOT:PSS thin films on PDMS by stretching. Journal of Materials Chemistry A, 2018, 6, 15621-15629.	10.3	49
11	All-Transparent NO₂ Gas Sensors Based on Freestanding Al-Doped ZnO Nanofibers. ACS Applied Electronic Materials, 2019, 1, 1261-1268.	4.3	45
12	Two-terminal DSSC/silicon tandem solar cells exceeding 18% efficiency. Energy and Environmental Science, 2016, 9, 3657-3665.	30.8	41
13	Strategy for <scp>largeâ€scale</scp> monolithic <scp>Perovskite</scp>/Silicon tandem solar cell: A review of recent progress. EcoMat, 2021, 3, e12084.	11.9	38
14	Preparation, characterization, and application of TiO2-patterned polyimide film as a photocatalyst for oxidation of organic contaminants. Journal of Hazardous Materials, 2017, 340, 300-308.	12.4	36
15	Interpretation of transconductance dispersion in GaAs MESFET using deep level transient spectroscopy. IEEE Transactions on Electron Devices, 2001, 48, 190-195.	3.0	25
16	Enhanced efficiency of crystalline Si solar cells based on kerfless-thin wafers with nanohole arrays. Scientific Reports, 2018, 8, 3504.	3.3	25
17	Quantitative evaluation of the antibacterial factors of ZnO nanorod arrays under dark conditions: Physical and chemical effects on Escherichia coli inactivation. Science of the Total Environment, 2020, 712, 136574.	8.0	25
18	Determination of energy levels of surface states in GaAs metalâ€“semiconductor field-effect transistor using deep-level transient spectroscopy. Applied Physics Letters, 1999, 74, 1108-1110.	3.3	20

#	Article	IF	Citations
19	Performance optimization in gate-tunable Schottky junction solar cells with a light transparent and electric-field permeable graphene mesh on n-Si. Journal of Materials Chemistry C, 2017, 5, 3183-3187.	5.5	20
20	Parallel Aligned Mesopore Arrays in Pyramidal-Shaped Gallium Nitride and Their Photocatalytic Applications. ACS Applied Materials & Interfaces, 2016, 8, 18201-18207.	8.0	18
21	Operation of Wearable Thermoelectric Generators Using Dual Sources of Heat and Light. Advanced Science, 2022, 9, e2104915.	11.2	17
22	Phase-Tuned MoS₂ and Its Hybridization with Perovskite Oxide as Bifunctional Catalyst: A Rationale for Highly Stable and Efficient Water Splitting. ACS Applied Materials & Interfaces, 2022, 14, 18248-18260.	8.0	16
23	3D Hierarchical Indium Tin Oxide Nanotrees for Enhancement of Light Extraction in GaNâ€Based Lightâ€Emitting Diodes. Advanced Optical Materials, 2017, 5, 1600684.	7.3	14
24	Degradation mechanism of Schottky diodes on inductively coupled plasma-etchedn-type 4H-SiC. Journal of Applied Physics, 2003, 94, 1765-1768.	2.5	12
25	Graphene-Assisted Zwitterionic Conjugated Polycyclic Molecular Interfacial Layer Enables Highly Efficient and Stable Inverted Perovskite Solar Cells. Chemistry of Materials, 2021, 33, 5563-5571.	6.7	11
26	Toward Allâ€Vacuumâ€Processable Perovskite Solar Cells with High Efficiency, Stability, and Scalability Enabled by Fluorinated Spiroâ€OMeTAD through Thermal Evaporation. Solar Rrl, 2021, 5, 2100415.	5.8	10
27	Ambipolar Passivated Back Surface Field Layer for Silicon Photovoltaics. Advanced Functional Materials, 2020, 30, 2004943.	14.9	7
28	Colorful Transparent Silicon Photovoltaics with Unprecedented Flexibility. Advanced Functional Materials, 2022, 32, 2110435.	14.9	6
29	Fermi level pinning on Si[sub 0.83]Ge[sub 0.17] surface by inductively coupled plasma treatment. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 495.	1.6	5
30	Triple layered Ga₂O₃/Cu₂O/Au photoanodes with enhanced photoactivity and stability prepared using iron nickel oxide catalysts. Journal of Materials Chemistry A, 2020, 8, 10966-10972.	10.3	5
31	3D Multiscale Gradient Pores Impregnated with Ag Nanowires for Simultaneous Pressure and Bending Detection with Enhanced Linear Sensitivity. Advanced Materials Technologies, 2020, 5, 1901041.	5.8	5
32	GaN-based light-emitting diodes by laser lift-off with micro- and nano-sized reflectors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, 050605.	2.1	4
33	Catalysis-Free Growth of III-V Core-Shell Nanowires on p-Si for Efficient Heterojunction Solar Cells with Optimized Window Layer. Energies, 2022, 15, 1772.	3.1	4
34	Characterization of Inductively-Coupled-Plasma Damage on n-Type GaN Using Deep-Level Transient Spectroscopy and Synchrotron Radiation Photoemission Spectroscopy. Physica Status Solidi (B): Basic Research, 2002, 234, 835-839.	1.5	2
35	3D Multiple Triangular Prisms for Highly Sensitive Non-Contact Mode Triboelectric Bending Sensors. Nanomaterials, 2022, 12, 1499.	4.1	2
36	Effects of photowashing treatment on electrical properties of an AlGaN/GaN heterostructure field-effect transistor. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2002, 20, 1574.	1.6	0