

Seung Min Lee

List of Publications by Year in descending order

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26
papers

1,767
citations

623734

14
h-index

552781

26
g-index

26
all docs

26
docs citations

26
times ranked

3343
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioresorbable silicon electronic sensors for the brain. <i>Nature</i> , 2016, 530, 71-76.	27.8	778
2	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. <i>Neuron</i> , 2017, 93, 509-521.e3.	8.1	323
3	Photocurable bioresorbable adhesives as functional interfaces between flexible bioelectronic devices and soft biological tissues. <i>Nature Materials</i> , 2021, 20, 1559-1570.	27.5	114
4	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. <i>Science Advances</i> , 2020, 6, eabb1093.	10.3	87
5	A review on binary metal sulfide heterojunction solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019, 200, 109963.	6.2	82
6	Origin of the enhanced photovoltaic characteristics of PbS thin film solar cells processed at near room temperature. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20112-20117.	10.3	80
7	Single elementary target-sputtered Cu ₂ ZnSnSe ₄ thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2015, 132, 136-141.	6.2	36
8	Enhanced Fracture Resistance of Flexible ZnO:Al Thin Films in Situ Sputtered on Bent Polymer Substrates. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 17569-17572.	8.0	35
9	Characteristics of Cu ₂ ZnSnSe ₄ and Cu ₂ ZnSn(Se,S) ₄ absorber thin films prepared by post selenization and sequential sulfurization of co-evaporated Cu-Zn-Sn precursors. <i>Journal of Alloys and Compounds</i> , 2013, 579, 279-283.	5.5	30
10	Enhanced optical and piezoelectric characteristics of transparent Ni-doped BiFeO ₃ thin films on a glass substrate. <i>RSC Advances</i> , 2016, 6, 16602-16607.	3.6	29
11	High-Efficiency Double Absorber PbS/CdS Heterojunction Solar Cells by Enhanced Charge Collection Using a ZnO Nanorod Array. <i>ACS Omega</i> , 2017, 2, 4894-4899.	3.5	23
12	Effect of band-aligned double absorber layers on photovoltaic characteristics of chemical bath deposited PbS/CdS thin film solar cells. <i>Scientific Reports</i> , 2015, 5, 14353.	3.3	22
13	Tensile Stress-Dependent Fracture Behavior and Its Influences on Photovoltaic Characteristics in Flexible PbS/CdS Thin-Film Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4573-4578.	8.0	20
14	Improved Photovoltaic Characteristics and Grain Boundary Potentials of CuIn _{0.7} Ga _{0.3} Se ₂ Thin Films Spin-Coated by Na-Dissolved Nontoxic Precursor Solution. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 17011-17015.	8.0	18
15	Effect of double substitutions of Cd and Cu on optical band gap and electrical properties of non-colloidal PbS thin films. <i>Journal of Alloys and Compounds</i> , 2016, 685, 129-134.	5.5	16
16	Highly efficient flexible CuIn _{0.7} Ga _{0.3} Se ₂ solar cells with a thick Na/Mo layer deposited directly on stainless steel. <i>Applied Surface Science</i> , 2015, 346, 562-566.	6.1	14
17	Experimental Demonstration of in Situ Stress-Driven Optical Modulations in Flexible Semiconducting Thin Films with Enhanced Photodetecting Capability. <i>Chemistry of Materials</i> , 2018, 30, 7776-7781.	6.7	12
18	Large-Scale Self-Limiting Synthesis of Monolayer MoS ₂ via Proximity Evaporation from Mo Films. <i>Crystal Growth and Design</i> , 2020, 20, 2698-2705.	3.0	11

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19	Barium Neodymium Titanium Borate Glass-Based High <i>k</i> Dielectrics. Journal of the American Ceramic Society, 2012, 95, 1356-1359.	3.8	6
20	Phase development, microstructure and optical properties of Cu ₂ ZnSnSe ₄ thin films modified with Pb and Ti. Surface and Coatings Technology, 2013, 231, 389-393.	4.8	6
21	Corrosion behavior of highly-crystallizable BaO-Nd ₂ O ₃ -TiO ₂ -B ₂ O ₃ glass-based composites. Corrosion Science, 2013, 66, 399-403.	6.6	5
22	Optical and grain boundary potential characteristics of sulfurized BiFeO ₃ thin films for photovoltaic applications. Dalton Transactions, 2016, 45, 5598-5603.	3.3	5
23	Electrical and photovoltaic characteristics of CuInSe ₂ thin films processed by nontoxic Cu-In precursor solutions. Journal Physics D: Applied Physics, 2013, 46, 245102.	2.8	4
24	Controlled post-sulfurization process for higher efficiency nontoxic solution-deposited CuIn _{0.7} Ga _{0.3} Se ₂ absorber thin films with graded bandgaps. Journal of Alloys and Compounds, 2017, 710, 177-181.	5.5	4
25	Effective two-step chemical deposition for homogeneous lead sulfide thin films on a flexible polymer substrate. Thin Solid Films, 2019, 679, 1-7.	1.8	4
26	Nanoindentation and Bending Fracture Behavior of Flexible Sulfide Thin Films Grown at Near Room Temperature With in Situ Tensile/Compressive Stress. Advanced Engineering Materials, 2019, 21, 1801329.	3.5	3