Seung Min Lee

List of Publications by Year
in descending order

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	Photocurable bioresorbable adhesives as functional interfaces between flexible bioelectronic devices and soft biological tissues. Nature Materials, 2021, 20, 1559-1570.	27.5	114
2	Wirelessly controlled, bioresorbable drug delivery device with active valves that exploit electrochemically triggered crevice corrosion. Science Advances, 2020, 6, eabb1093.	10.3	87
3	Large-Scale Self-Limiting Synthesis of Monolayer MoS₂ via Proximity Evaporation from Mo Films. Crystal Growth and Design, 2020, 20, 2698-2705.	3.0	11
4	A review on binary metal sulfide heterojunction solar cells. Solar Energy Materials and Solar Cells, 2019, 200, 109963.	6.2	82
5	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
6	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
7	Experimental Demonstration of in Situ Stress-Driven Optical Modulations in Flexible Semiconducting Thin Films with Enhanced Photodetecting Capability. Chemistry of Materials, 2018, 30, 7776-7781.	6.7	12
8	Flexible Near-Field Wireless Optoelectronics as Subdermal Implants for Broad Applications in Optogenetics. Neuron, 2017, 93, 509-521.e3.	8.1	323
9	High-Efficiency Double Absorber PbS/CdS Heterojunction Solar Cells by Enhanced Charge Collection Using a ZnO Nanorod Array. ACS Omega, 2017, 2, 4894-4899.	3.5	23
10	Controlled post-sulfurization process for higher efficiency nontoxic solution-deposited CuIn0.7Ga0.3Se2 absorber thin films with graded bandgaps. Journal of Alloys and Compounds, 2017, 710, 177-181.	5.5	4
11	Improved Photovoltaic Characteristics and Grain Boundary Potentials of CuIn_{0.7}Ga_{0.3}Se₂ Thin Films Spin-Coated by Na-Dissolved Nontoxic Precursor Solution. ACS Applied Materials & Interfaces, 2016, 8, 17011-17015.	8.0	18
12	Effect of double substitutions of Cd and Cu on optical band gap and electrical properties of non-colloidal PbS thin films. Journal of Alloys and Compounds, 2016, 685, 129-134.	5.5	16
13	Bioresorbable silicon electronic sensors for the brain. Nature, 2016, 530, 71-76.	27.8	778
14	Enhanced optical and piezoelectric characteristics of transparent Ni-doped BiFeO₃ thin films on a glass substrate. RSC Advances, 2016, 6, 16602-16607.	3.6	29
15	Optical and grain boundary potential characteristics of sulfurized BiFeO3 thin films for photovoltaic applications. Dalton Transactions, 2016, 45, 5598-5603.	3.3	5
16	Effect of band-aligned double absorber layers on photovoltaic characteristics of chemical bath deposited PbS/CdS thin film solar cells. Scientific Reports, 2015, 5, 14353.	3.3	22
17	Highly efficient flexible CuIn0.7Ga0.3Se2 solar cells with a thick Na/Mo layer deposited directly on stainless steel. Applied Surface Science, 2015, 346, 562-566.	6.1	14
18	Tensile Stress-Dependent Fracture Behavior and Its Influences on Photovoltaic Characteristics in Flexible PbS/CdS Thin-Film Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 4573-4578.	8.0	20

#	Article	IF	Citations
19	Enhanced Fracture Resistance of Flexible ZnO:Al Thin Films in Situ Sputtered on Bent Polymer Substrates. ACS Applied Materials & Interfaces, 2015, 7, 17569-17572.	8.0	35
20	Single elementary target-sputtered Cu2ZnSnSe4 thin film solar cells. Solar Energy Materials and Solar Cells, 2015, 132, 136-141.	6.2	36
21	Origin of the enhanced photovoltaic characteristics of PbS thin film solar cells processed at near room temperature. Journal of Materials Chemistry A, 2014, 2, 20112-20117.	10.3	80
22	Characteristics of Cu2ZnSnSe4 and Cu2ZnSn(Se,S)4 absorber thin films prepared by post selenization and sequential sulfurization of co-evaporated Cuâ€“Znâ€“Sn precursors. Journal of Alloys and Compounds, 2013, 579, 279-283.	5.5	30
23	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
24	Corrosion behavior of highly-crystallizable BaOâ€“Nd2O3â€“TiO2â€“B2O3 glass-based composites. Corrosion Science, 2013, 66, 399-403.	6.6	5
25	Electrical and photovoltaic characteristics of CuInSe2thin films processed by nontoxic Cuâ€“In precursor solutions. Journal Physics D: Applied Physics, 2013, 46, 245102.	2.8	4
26	Barium Neodymium Titanium Borate Glassâ€Based High k Dielectrics. Journal of the American Ceramic Society, 2012, 95, 1356-1359.	3.8	6