

Kai Shen

List of Publications by Year in descending order

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12
papers

794
citations

933447

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1199594

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times ranked

749
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#	ARTICLE	IF	CITATIONS
1	Interpenetrating structure for efficient Sb ₂ Se ₃ nanorod array solar cells loaded with CuInSe ₂ QDs sensitizer. <i>Journal of Energy Chemistry</i> , 2022, 68, 521-528.	12.9	9
2	Underwater Multispectral Computational Imaging Based on a Broadband Water-Resistant Sb ₂ Se ₃ Heterojunction Photodetector. <i>ACS Nano</i> , 2022, 16, 5820-5829.	14.6	25
3	Nanoepitaxy Growth of Sb ₂ Se ₃ Nanorod Arrays on Mixed-Oriented Transparent Conducting Oxide-Coated Glass for Efficient and Quasiomnidirectional Solar Cells. <i>Solar Rrl</i> , 2022, 6, .	5.8	3
4	Enhanced hydrothermal heterogeneous deposition with surfactant additives for efficient Sb ₂ Se ₃ solar cells. <i>Chemical Engineering Journal</i> , 2022, 446, 136474.	12.7	18
5	Crystallographic Orientation Control of 1D Sb ₂ Se ₃ Nanorod Arrays for Photovoltaic Application by In Situ Back-Contact Engineering. <i>Solar Rrl</i> , 2020, 4, 2000294.	5.8	29
6	Back Contact Interfacial Modification in Highly-Efficient All-Inorganic Planar n-i-p Sb ₂ Se ₃ Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 38397-38405.	8.0	26
7	Efficient and Stable Planar n-i-p Sb ₂ Se ₃ Solar Cells Enabled by Oriented 1D Trigonal Selenium Structures. <i>Advanced Science</i> , 2020, 7, 2001013.	11.2	67
8	Effect of deposition pressure on the properties of magnetron sputtering-deposited Sb ₂ Se ₃ thin-film solar cells. <i>Applied Physics A: Materials Science and Processing</i> , 2019, 125, 1.	2.3	15
9	Bandgap tunable CdS:O as efficient electron buffer layer for high-performance Sb ₂ Se ₃ thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2019, 194, 47-53.	6.2	33
10	9.2%-efficient core-shell structured antimony selenide nanorod array solar cells. <i>Nature Communications</i> , 2019, 10, 125.	12.8	418
11	Improvement in Sb ₂ Se ₃ Solar Cell Efficiency through Band Alignment Engineering at the Buffer/Absorber Interface. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 828-834.	8.0	89
12	Mechanisms and modification of nonlinear shunt leakage in Sb ₂ Se ₃ thin film solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 186, 58-65.	6.2	62