

# Kai Shen

## List of Publications by Year in descending order

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Version: 2024-02-01

12  
papers

794  
citations

933447

10  
h-index

1199594

12  
g-index

12  
all docs

12  
docs citations

12  
times ranked

749  
citing authors

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