

# Zhongquan

## List of Publications by Year in descending order

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Version: 2024-02-01

20  
papers

195  
citations

1163117  
8  
h-index

1058476  
14  
g-index

20  
all docs

20  
docs citations

20  
times ranked

349  
citing authors

#	ARTICLE	IF	CITATIONS
1	Preparation of ITO/SiO <sub>x</sub> /n-Si solar cells with non-decline potential field and hole tunneling by magnetron sputtering. Applied Physics Letters, 2015, 106, .	3.3	37
2	Bifunctional Hybrid a-SiO <sub>x</sub> (Mo) Layer for Hole-Selective and Interface Passivation of Highly Efficient MoO <sub>x</sub> /a-SiO <sub>x</sub> (Mo)/n-Si Heterojunction Photovoltaic Device. ACS Applied Materials & Interfaces, 2018, 10, 27454-27464.	8.0	28
3	Surfactant-assisted nanocrystal filling of TiO <sub>2</sub> nanotube arrays for dye-sensitized solar cells with improved performance. Journal of Power Sources, 2013, 236, 10-16.	7.8	27
4	Unveiling the Low-Temperature Pseudodegradation of Photovoltaic Performance in Planar Perovskite Solar Cell by Optoelectronic Observation. Advanced Energy Materials, 2016, 6, 1600814.	19.5	21
5	Refined nano-textured surface coupled with SiNx layer on the improved photovoltaic properties of multi-crystalline silicon solar cells. Solid-State Electronics, 2013, 85, 23-27.	1.4	16
6	Effective Passivation and Tunneling Hybrid a-SiO <sub>x</sub> (In) Layer in ITO/n-Si Heterojunction Photovoltaic Device. ACS Applied Materials & Interfaces, 2017, 9, 17565-17575.	8.0	16
7	Hydrogen-free synthesis of graphene/graphitic films directly on Si substrate by plasma enhanced chemical vapor deposition. Journal of Materials Science: Materials in Electronics, 2015, 26, 1485-1493.	2.2	11
8	Photoluminescence study of the defect-induced recombination in Cu(In,Ga)Se <sub>2</sub> solar cell. Solar Energy, 2013, 98, 415-421.	6.1	8
9	Modifications and multiple roles of graphene film in SIS structural solar cells. Solar Energy, 2015, 122, 658-666.	6.1	8
10	A concise way to estimate the average density of interface states in an ITO/SiO <sub>x</sub> /n-Si heterojunction solar cell. Applied Surface Science, 2017, 416, 432-438.	6.1	8
11	Questing and the application for silicon based ternary compound within ultra-thin layer of SIS intermediate region. Applied Surface Science, 2016, 388, 57-63.	6.1	6
12	Hydrogen-free synthesis of few-layer graphene film on different substrates by plasma enhanced chemical vapor deposition. Journal of Materials Science: Materials in Electronics, 2015, 26, 6961-6969.	2.2	2
13	Role of nuclei in controllable MoS <sub>2</sub> growth by modified chemical vapor deposition. Journal of Materials Science: Materials in Electronics, 2018, 29, 7425-7434.	2.2	2
14	The performance of a perovskite-silicon tandem photovoltaic device coupled with the infrared-enhanced response titanium subnitride film. Applied Surface Science, 2022, 579, 152113.	6.1	2
15	Surface partition of ion energy during the growth of TiNx thin films. Solid State Communications, 2004, 132, 347-350.	1.9	1
16	Improvement of band gap profile in Cu(InGa)Se <sub>2</sub> solar cells through rapid thermal annealing. Materials Research Bulletin, 2014, 54, 48-53.	5.2	1
17	The hole transport mechanism of MoO <sub>x</sub> /a-Si: H(i)/n-Si heterojunction photovoltaic devices: the source of the "S-shaped" behavior. Journal Physics D: Applied Physics, 2020, 53, 425302.	2.8	1
18	Inspection of intermediate stress-induced electronic traps in Si/Al <sub>2</sub> O <sub>3</sub> system. Vacuum, 2004, 77, 5-9.	3.5	0

#	ARTICLE	IF	CITATIONS
19	Realization of higher current density in the solar cell of SINP architecture. Solar Energy Materials and Solar Cells, 2011, 95, 89-92.	6.2	0
20	Role of Interfacial Oxide Layer in MoOx/n-Si Heterojunction Solar Cells. International Journal of Photoenergy, 2021, 2021, 1-8.	2.5	0