

# Yuan Yao

## List of Publications by Year in descending order

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14  
papers

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1040056

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docs citations

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1125  
citing authors

#	ARTICLE	IF	CITATIONS
1	Luminescent Solar Concentration with Semiconductor Nanorods and Transfer-Printed Micro-Silicon Solar Cells. ACS Nano, 2014, 8, 44-53.	14.6	153
2	Quantum Dot Luminescent Concentrator Cavity Exhibiting 30-fold Concentration. ACS Photonics, 2015, 2, 1576-1583.	6.6	126
3	Roadmap on optical energy conversion. Journal of Optics (United Kingdom), 2016, 18, 073004.	2.2	85
4	Enhanced Photon Collection in Luminescent Solar Concentrators with Distributed Bragg Reflectors. ACS Photonics, 2016, 3, 278-285.	6.6	58
5	Concentrator photovoltaic module architectures with capabilities for capture and conversion of full global solar radiation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E8210-E8218.	7.1	48
6	Fabrication and assembly of ultrathin high-efficiency silicon solar microcells integrating electrical passivation and anti-reflection coatings. Energy and Environmental Science, 2013, 6, 3071.	30.8	34
7	Porous Nanomaterials for Ultrabroadband Omnidirectional Anti-Reflection Surfaces with Applications in High Concentration Photovoltaics. Advanced Energy Materials, 2017, 7, 1601992.	19.5	27
8	Single-Molecule Nanotechnologies: An Evolution in Biological Dynamics Detection. ACS Applied Bio Materials, 2020, 3, 68-85.	4.6	24
9	Black silicon solar thin-film microcells integrating top nanocone structures for broadband and omnidirectional light-trapping. Nanotechnology, 2014, 25, 305301.	2.6	18
10	Optimization of Photon and Electron Collection Efficiencies in Silicon Solar Microcells for Use in Concentration-Based Photovoltaic Systems. Advanced Materials Technologies, 2017, 2, 1700169.	5.8	6
11	Solution processes for ultrabroadband and omnidirectional graded-index glass lenses with near-zero reflectivity in high concentration photovoltaics. Scientific Reports, 2018, 8, 14907.	3.3	4
12	Porous Nanomaterials: Porous Nanomaterials for Ultrabroadband Omnidirectional Anti-Reflection Surfaces with Applications in High Concentration Photovoltaics (Adv. Energy Mater. 7/2017). Advanced Energy Materials, 2017, 7, .	19.5	2
13	Organic Semiconductors: Solution-Crystallized Organic Semiconductors with High Carrier Mobility and Air Stability (Adv. Mater. 41/2012). Advanced Materials, 2012, 24, 5518-5518.	21.0	1
14	Nanomembranes and soft fabrication methods for high performance, low cost energy technologies. , 2015, , .		0