

# Jan Kegel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8008824/publications.pdf>

Version: 2024-02-01

15  
papers

333  
citations

1162889

8  
h-index

1199470

12  
g-index

15  
all docs

15  
docs citations

15  
times ranked

568  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc oxide for solar water splitting: A brief review of the material's challenges and associated opportunities. <i>Nano Energy</i> , 2018, 54, 409-428.	8.2	126
2	Over 20% conversion efficiency on silicon heterojunction solar cells by IPA-free substrate texturization. <i>Applied Surface Science</i> , 2014, 301, 56-62.	3.1	44
3	Passivation of Textured Silicon Wafers: Influence of Pyramid Size Distribution, a-Si:H Deposition Temperature, and Post-treatment. <i>Energy Procedia</i> , 2013, 38, 881-889.	1.8	33
4	Defect-promoted photo-electrochemical performance enhancement of orange-luminescent ZnO nanorod-arrays. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12255-12268.	1.3	33
5	Effect of Surface and Defect Chemistry on the Photocatalytic Properties of Intentionally Defect-Rich ZnO Nanorod Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17994-18004.	4.0	33
6	IPA-free Texturization of n-type Si Wafers: Correlation of Optical, Electronic and Morphological Surface Properties. <i>Energy Procedia</i> , 2013, 38, 833-842.	1.8	31
7	Evolution of the Charge Carrier Lifetime Characteristics in Crystalline Silicon Wafers During Processing of Heterojunction Solar Cells. <i>Energy Procedia</i> , 2014, 55, 219-228.	1.8	10
8	Rapid low-temperature solution growth of ZnO:Co nanorod arrays with controllable visible light absorption. <i>CrystEngComm</i> , 2017, 19, 1938-1946.	1.3	10
9	ZnO Nanorod-Arrays as Photo-(Electro)Chemical Materials: Strategies Designed to Overcome the Material's Natural Limitations. <i>Journal of the Electrochemical Society</i> , 2018, 165, H3034-H3044.	1.3	6
10	Surface Optimization of Random Pyramid Textured Silicon Substrates for Improving Heterojunction Solar Cells. <i>Solid State Phenomena</i> , 0, 255, 338-343.	0.3	3
11	Improvement of Silicon Solar Cell Substrates by Wet-Chemical Oxidation Studied by Surface Photovoltage Measurements. <i>Solid State Phenomena</i> , 2014, 219, 291-296.	0.3	2
12	(Invited) Tailoring Zinc Oxide Nanorod-Arrays for Photo-(electro)Chemical Applications. <i>ECS Transactions</i> , 2017, 77, 43-60.	0.3	1
13	Prosuing "energy sufficiency and rebound effects: Climate impact of changing household consumption patterns in Germany. <i>TATuP - Zeitschrift für Technikfolgenabschätzung in Theorie Und Praxis</i> , 2022, 31, 18-24.	0.2	1
14	One-Pot Synthesis of Co(OH) <sub>2</sub> and/or Co <sub>3</sub> O <sub>4</sub> -Decorated Cobalt-Doped ZnO Nanorod Arrays and Their Potential as (Photo-)Anode Materials. <i>ChemistrySelect</i> , 2019, 4, 5033-5043.	0.7	0
15	(Invited) Tailoring Zinc Oxide Nanorod-Arrays for Photo-(electro)Chemical Applications. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0