

# Debora Keller

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8303092/publications.pdf>

Version: 2024-02-01

17  
papers

1,622  
citations

759233

12  
h-index

940533

16  
g-index

19  
all docs

19  
docs citations

19  
times ranked

2128  
citing authors

#	ARTICLE	IF	CITATIONS
1	Potassium-induced surface modification of Cu(In,Ga)Se <sub>2</sub> thin films for high-efficiency solar cells. Nature Materials, 2013, 12, 1107-1111.	27.5	1,161
2	Features of KF and NaF Postdeposition Treatments of Cu(In,Ga)Se <sub>2</sub> Absorbers for High Efficiency Thin Film Solar Cells. Chemistry of Materials, 2015, 27, 5755-5764.	6.7	178
3	Formation of Au Nanoparticles in Liquid Cell Transmission Electron Microscopy: From a Systematic Study to Engineered Nanostructures. Chemistry of Materials, 2017, 29, 10518-10525.	6.7	43
4	Liquid-phase selenium-enhanced grain growth of nanoparticle precursor layers for CuInSe <sub>2</sub> solar cell absorbers. Progress in Photovoltaics: Research and Applications, 2015, 23, 1110-1119.	8.1	34
5	Enhanced Carrier Collection from CdS Passivated Grains in Solution-Processed Cu <sub>2</sub> ZnSn(S,Se) <sub>4</sub> Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 12141-12146.	8.0	33
6	Noise2Atom: unsupervised denoising for scanning transmission electron microscopy images. Applied Microscopy, 2020, 50, 23.	1.4	27
7	Voids and compositional inhomogeneities in Cu(In,Ga)Se <sub>2</sub> thin films: evolution during growth and impact on solar cell performance. Science and Technology of Advanced Materials, 2018, 19, 871-882.	6.1	23
8	Local Band Gap Measurements by VEELS of Thin Film Solar Cells. Microscopy and Microanalysis, 2014, 20, 1246-1253.	0.4	20
9	Atomic Mechanisms of Nanocrystallization via Cluster-Clouds in Solution Studied by Liquid-Phase Scanning Transmission Electron Microscopy. Nano Letters, 2021, 21, 2861-2869.	9.1	20
10	Band gap widening at random CIGS grain boundary detected by valence electron energy loss spectroscopy. Applied Physics Letters, 2016, 109, .	3.3	19
11	Atomic mechanisms of gold nanoparticle growth in ionic liquids studied by <i>in situ</i> scanning transmission electron microscopy. Nanoscale, 2020, 12, 22511-22517.	5.6	17
12	Formation of gold nanoparticles in a free-standing ionic liquid triggered by heat and electron irradiation. Micron, 2019, 117, 16-21.	2.2	14
13	Multi-step atomic mechanism of platinum nanocrystals nucleation and growth revealed by in-situ liquid cell STEM. Scientific Reports, 2021, 11, 23965.	3.3	13
14	Structure Matters – Direct <i>In-situ</i> Observation of Cluster Nucleation at Atomic Scale in a Liquid Phase. ChemNanoMat, 2021, 7, 110-116.	2.8	10
15	Assessment of off-axis and in-line electron holography for measurement of potential variations in Cu(In,Ga)Se <sub>2</sub> thin-film solar cells. Advanced Structural and Chemical Imaging, 2016, 2, .	4.0	6
16	Progress towards 14% efficient CdTe solar cells in substrate configuration. , 2013, , .		3
17	Liquid Phase Studies of Nanomaterials. Chimia, 2018, 72, 727.	0.6	1