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List of Publications by Year in descending order

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28 papers	1,256 citations	516215 16 h-index	610482 24 g-index
30 all docs	30 docs citations	30 times ranked	2146 citing authors

#	Article	IF	Citations
1	Quick-EXAFS setup at the SuperXAS beamline forinÂsituX-ray absorption spectroscopy with 10â€…ms time resolution. Journal of Synchrotron Radiation, 2016, 23, 260-266.	1.0	158
2	20.8% Slotâ€Die Coated MAPbI₃ Perovskite Solar Cells by Optimal DMSOâ€Content and Age of 2â€ME Based Precursor Inks. Advanced Energy Materials, 2021, 11, 2003460.	10.2	122
3	Fineâ€Tuning the Sn Content in CZTSSe Thin Films to Achieve 10.8% Solar Cell Efficiency from Sprayâ€Deposited Waterâ€“Ethanolâ€Based Colloidal Inks. Advanced Energy Materials, 2015, 5, 1501404.	10.2	120
4	Determination of secondary phases in kesterite Cu2ZnSnS4 thin films by x-ray absorption near edge structure analysis. Applied Physics Letters, 2011, 99, .	1.5	109
5	Low Temperature Synthesis of Stable Î³â€CsPbI₃ Perovskite Layers for Solar Cells Obtained by High Throughput Experimentation. Advanced Energy Materials, 2019, 9, 1900555.	10.2	108
6	Nanostructural Evolution and Self-Healing Mechanism of Micellar Hydrogels. Macromolecules, 2016, 49, 2281-2287.	2.2	95
7	Real-time observation of Cu2ZnSn(S,Se)4 solar cell absorber layer formation from nanoparticle precursors. Physical Chemistry Chemical Physics, 2013, 15, 18281.	1.3	86
8	Secondary phases and their influence on the composition of the kesterite phase in CZTS and CZTSe thin films. Physical Chemistry Chemical Physics, 2016, 18, 15988-15994.	1.3	77
9	Deep Defects in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Cu</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mi) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 422 Td (mathvariant="normal">S</mml:mi><mml:mi>	1.5	67
10	Optical in situ monitoring during the synthesis of halide perovskite solar cells reveals formation kinetics and evolution of optoelectronic properties. Journal of Materials Chemistry A, 2020, 8, 10439-10449.	5.2	43
11	Effect of precursor stacking order and sulfurization temperature on compositional homogeneity of CZTS thin films. Thin Solid Films, 2016, 615, 402-408.	0.8	41
12	A mechanochemical route to single phase Cu2ZnSnS4 powder. Journal of Alloys and Compounds, 2016, 670, 289-296.	2.8	37
13	EXAFS Study on the Coordination Chemistry of the Solvated Copper(II) Ion in a Series of Oxygen Donor Solvents. Inorganic Chemistry, 2020, 59, 9538-9550.	1.9	35
14	Sputtered Zn(O,S) for junction formation in chalcopyriteâ€based thin film solar cells. Physica Status Solidi - Rapid Research Letters, 2010, 4, 109-111.	1.2	28
15	Earth abundant thin film solar cells from co-evaporated Cu2SnS3 absorber layers. Journal of Alloys and Compounds, 2016, 689, 182-186.	2.8	24
16	The role of interparticle heterogeneities in the selenization pathway of Cuâ€“Znâ€“Snâ€“S nanoparticle thin films: a real-time study. Journal of Materials Chemistry C, 2015, 3, 7128-7134.	2.7	21
17	Insights into Nucleation and Growth of Colloidal Quaternary Nanocrystals by Multimodal X-ray Analysis. ACS Nano, 2021, 15, 6439-6447.	7.3	18
18	Nanoscale order in the frustrated mixed conductor La_{5.6}WO_{12â^Î´}. Journal of Applied Crystallography, 2016, 49, 997-1008.	1.9	15

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19	Depth distribution of secondary phases in kesterite Cu2ZnSnS4 by angle-resolved X-ray absorption spectroscopy. APL Materials, 2017, 5, .	2.2	14
20	Compositional dependence of charge carrier transport in kesterite Cu2ZnSnS4solar cells. Journal of Applied Physics, 2016, 120, 225703.	1.1	11
21	Quick-Scanning QEXAFS in grazing incidence: Surface science in sub-seconds. Journal of Physics: Conference Series, 2013, 430, 012124.	0.3	6
22	In Situ Monitoring of Cu2ZnSnS4 Absorber Formation With Raman Spectroscopy During Mo/Cu2SnS3/ZnS Thin-Film Stack Annealing. IEEE Journal of Photovoltaics, 2017, 7, 906-912.	1.5	6
23	Investigation of reflectometry for in situ process monitoring and characterization of co-evaporated and stacked Cu-Zn-Sn-S based thin films. Journal of Alloys and Compounds, 2019, 779, 870-878.	2.8	5
24	Timeâ€Resolved Grazing Incidence Xâ€Ray Absorption Spectroscopy for the In Situ Investigation of the Initial Stages of Sputterâ€Deposited Copper Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, 2100514.	0.8	3
25	Correlation between composition and photovoltaic properties of Cu<inf>2</inf>ZnSnS<inf>4</inf> thin film solar cells. , 2011, , .		2
26	Raman spectroscopy study on in-situ monitoring of Cu2ZnSnS4 synthesis. , 2015, , .		2
27	Defects in Cu<inf>2</inf>ZnSn(S,Se)<inf>4</inf> solar cells studied by photoluminescence, admittance and IVT. , 2014, , .		1
28	Radiative recombination from localized states in CZT(S, Se) investigated by combined PL and TRPL at low temperatures. , 2016, , .		1