Wenbing Yang

List of Publications by Year
in descending order

24 papers	1,901 citations	430442 18 h-index	752256 20 g-index
25 all docs	25 docs citations	25 times ranked	2819 citing authors

#	Article	IF	Citations
1	Fused Silver Nanowires with Metal Oxide Nanoparticles and Organic Polymers for Highly Transparent Conductors. ACS Nano, 2011, 5, 9877-9882.	7.3	348
2	CZTS nanocrystals: a promising approach for next generation thin film photovoltaics. Energy and Environmental Science, 2013, 6, 2822.	15.6	309
3	The Role of Sulfur in Solution‐Processed $Cu_2ZnSn(S,Se)_4$ and its Effect on Defect Properties. Advanced Functional Materials, 2013, 23, 1466-1471.	7.8	209
4	Novel Solution Processing of High‐Efficiency Earth‐Abundant $Cu_2ZnSn(S,Se)_4$ Solar Cells. Advanced Materials, 2012, 24, 6323-6329.	11.1	192
5	Rational Defect Passivation of $Cu_2ZnSn(S,Se)_4$ Photovoltaics with Solution-Processed Cu_2ZnSnS_4:Na Nanocrystals. Journal of the American Chemical Society, 2013, 135, 15998-16001.	6.6	142
6	Predicting synergy in atomic layer etching. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	0.9	90
7	The Development of Hydrazine‐Processed Cu(In,Ga)(Se,S)$_2$ Solar Cells. Advanced Energy Materials, 2012, 2, 504-522.	10.2	70
8	Growth mechanisms of co‐evaporated kesterite: a comparison of Cu‐rich and Zn‐rich composition paths. Progress in Photovoltaics: Research and Applications, 2014, 22, 35-43.	4.4	68
9	Synthesis of bimetallic Pt-Pd core-shell nanocrystals and their high electrocatalytic activity modulated by Pd shell thickness. Nanoscale, 2012, 4, 845-851.	2.8	57
10	Benign Solutions and Innovative Sequential Annealing Processes for High Performance $Cu_2ZnSn(Se,S)_4$ Photovoltaics. Advanced Energy Materials, 2014, 4, 1301287.	10.2	55
11	Reaction pathways for the formation of Cu2ZnSn(Se,S)4 absorber materials from liquid-phase hydrazine-based precursor inks. Energy and Environmental Science, 2012, 5, 8564.	15.6	54
12	Identification of the Molecular Precursors for Hydrazine Solution Processed CuIn(Se,S)$_2$ Films and Their Interactions. Chemistry of Materials, 2011, 23, 964-969.	3.2	52
13	Spatial Element Distribution Control in a Fully Solution-Processed Nanocrystals-Based 8.6% $Cu_2ZnSn(S,Se)_4$ Device. ACS Nano, 2014, 8, 9164-9172.	7.3	48
14	Molecular Solution Approach To Synthesize Electronic Quality Cu_2ZnSnS_4 Thin Films. Journal of the American Chemical Society, 2013, 135, 6915-6920.	6.6	45
15	Atomic layer etching of GaN and AlGaN using directional plasma-enhanced approach. Japanese Journal of Applied Physics, 2017, 56, 06HB06.	0.8	44
16	Highly Selective Directional Atomic Layer Etching of Silicon. ECS Journal of Solid State Science and Technology, 2015, 4, N5010-N5012.	0.9	37
17	Facile single-component precursor for Cu2ZnSnS4 with enhanced phase and composition controllability. Energy and Environmental Science, 2014, 7, 998.	15.6	29
18	Non‐Hydrazine Solutions in Processing CuIn(S,Se)$_2$ Photovoltaic Devices from Hydrazinium Precursors. Advanced Energy Materials, 2013, 3, 328-336.	10.2	22

#	ARTICLE	IF	CITATIONS
19	Cadmium ion soaking treatment for solution processed CuInSxSe2−x solar cells and its effect on defect properties. Solar Energy Materials and Solar Cells, 2011, 95, 2384-2389.	3.0	16
20	Universal scaling relationship for atomic layer etching. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, 010401.	0.9	12
21	Novel solution processing of high efficiency earth abundant CZTSSe solar cells. , 2012, , .		2
22	Cadmium ion soaking treatment and defect characterizations of hydrazine processed CISS photovoltaic cells. , 2011, , .		0
23	Molecular precursor species and their effects on the energy band-gap of hydrazine solution processed CuIn(S,Se)$_2$ films. , 2012, , .		0
24	Benign solution processed Cu$_2$ZnSn(Se, S)$_4$ photovoltaic. , 2013, , .		0