Silke L Diedenhofen

List of Publications by Year
in descending order

15	1,062	759233 12	1125743 13
papers	citations	h-index	g-index

15	15	15	1934
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Broadâ€band and Omnidirectional Antireflection Coatings Based on Semiconductor Nanorods. Advanced Materials, 2009, 21, 973-978.	21.0	243
2	Strong Geometrical Dependence of the Absorption of Light in Arrays of Semiconductor Nanowires. ACS Nano, 2011, 5, 2316-2323.	14.6	169
3	Large Photonic Strength of Highly Tunable Resonant Nanowire Materials. Nano Letters, 2009, 9, 930-934.	9.1	149
4	Heterovalent cation substitutional doping for quantum dot homojunction solar cells. Nature Communications, 2013, 4, 2981.	12.8	111
5	Broadband and omnidirectional anti-reflection layer for III/V multi-junction solar cells. Solar Energy Materials and Solar Cells, 2012, 101, 308-314.	6.2	75
6	Generic nano-imprint process for fabrication of nanowire arrays. Nanotechnology, 2010, 21, 065305.	2.6	70
7	Remote Trap Passivation in Colloidal Quantum Dot Bulk Nanoâ€heterojunctions and Its Effect in Solutionâ€Processed Solar Cells. Advanced Materials, 2014, 26, 4741-4747.	21.0	62
8	Epitaxial Growth of Aligned Semiconductor Nanowire Metamaterials for Photonic Applications. Advanced Functional Materials, 2008, 18, 1039-1046.	14.9	56
9	Integrated colloidal quantum dot photodetectors with color-tunable plasmonic nanofocusing lenses. Light: Science and Applications, 2015, 4, e234-e234.	16.6	46
10	Determination of carrier lifetime and mobility in colloidal quantum dot films via impedance spectroscopy. Applied Physics Letters, 2014, 104, .	3.3	27
11	Surface Plasmon Polariton Couplers for Light Trapping in Thin-Film Absorbers and Their Application to Colloidal Quantum Dot Optoelectronics. ACS Photonics, 2014, 1, 1197-1205.	6.6	26
12	Controlling the Directional Emission of Light by Periodic Arrays of Heterostructured Semiconductor Nanowires. ACS Nano, 2011, 5, 5830-5837.	14.6	23
13	Broadband and Omnidirectional Anti-reflection Coating for III/V Multi-junction Solar Cells. Springer Series in Materials Science, 2014, , 571-595.	0.6	4
14	Mimicking moth's eyes for photovoltaic applications with tapered GaP nanorods. , 2010, , .		1
15	Bio-inspired Broadband and Omni-directional Antireflective Surface based on Semiconductor Nanorods. , 2010, , .		0