N Selvakumar

List of Publications by Year
in descending order

22 papers	1,884 citations	516710 16 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	1658 citing authors

#	Article	IF	Citations
1	Review of physical vapor deposited (PVD) spectrally selective coatings for mid- and high-temperature solar thermal applications. Solar Energy Materials and Solar Cells, 2012, 98, 1-23.	6.2	531
2	A comparative study of reactive direct current magnetron sputtered CrAlN and CrN coatings. Surface and Coatings Technology, 2006, 201, 2193-2201.	4.8	282
3	TiAlNâˆ•TiAlONâˆ•Si3N4 tandem absorber for high temperature solar selective applications. Applied Physics Letters, 2006, 89, 191909.	3.3	119
4	Structure, optical properties and thermal stability of pulsed sputter deposited high temperature HfOx/Mo/HfO2 solar selective absorbers. Solar Energy Materials and Solar Cells, 2010, 94, 1412-1420.	6.2	107
5	Carbon Nanotubeâ€Based Tandem Absorber with Tunable Spectral Selectivity: Transition from Nearâ€Perfect Blackbody Absorber to Solar Selective Absorber. Advanced Materials, 2014, 26, 2552-2557.	21.0	95
6	Deposition and characterization of TiAlN/TiAlON/Si3N4 tandem absorbers prepared using reactive direct current magnetron sputtering. Thin Solid Films, 2008, 516, 6071-6078.	1.8	89
7	Structure and optical properties of pulsed sputter deposited CrxOyâˆ•Crâˆ•Cr2O3 solar selective coatings. Journal of Applied Physics, 2008, 103, .	2.5	89
8	Spectrally selective NbAlN/NbAlON/Si3N4 tandem absorber for high-temperature solar applications. Solar Energy Materials and Solar Cells, 2008, 92, 495-504.	6.2	87
9	Optical properties and thermal stability of pulsed-sputter-deposited AlxOy/Al/AlxOy multilayer absorber coatings. Solar Energy Materials and Solar Cells, 2009, 93, 315-323.	6.2	79
10	Design and fabrication of highly thermally stable HfMoN/HfON/Al2O3 tandem absorber for solar thermal power generation applications. Solar Energy Materials and Solar Cells, 2012, 102, 86-92.	6.2	79
11	Spectroscopic ellipsometric characterization of TiAlN/TiAlON/Si3N4 tandem absorber for solar selective applications. Applied Surface Science, 2008, 254, 1694-1699.	6.1	73
12	Effect of substrate roughness on the apparent surface free energy of sputter deposited superhydrophobic polytetrafluoroethylene coatings: A comparison of experimental data with different theoretical models. Journal of Applied Physics, 2010, 108, .	2.5	53
13	Enhanced optical absorption of graphene-based heat mirror with tunable spectral selectivity. Solar Energy Materials and Solar Cells, 2018, 186, 149-153.	6.2	45
14	Thermal stability of TiAlNâˆ•TiAlONâˆ•Si3N4 tandem absorbers prepared by reactive direct current magnetron sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 383-390.	2.1	37
15	Spectrally selective CrMoN/CrON tandem absorber for mid-temperature solar thermal applications. Solar Energy Materials and Solar Cells, 2013, 109, 97-103.	6.2	35
16	Wettability of ZnO: A comparison of reactively sputtered; thermally oxidized and vacuum annealed coatings. Applied Surface Science, 2011, 257, 4410-4417.	6.1	21
17	AlMoN based spectrally selective coating with improved thermal stability for high temperature solar thermal applications. Solar Energy, 2015, 119, 114-121.	6.1	17
18	Optical simulation and fabrication of HfMoN/HfON/Al2O3 spectrally selective coating. Solar Energy Materials and Solar Cells, 2015, 140, 328-334.	6.2	16

#	ARTICLE	IF	CITATIONS
19	Nanometer thick tunable AlHfN coating for solar thermal applications: Transition from absorber to antireflection coating. Solar Energy Materials and Solar Cells, 2015, 137, 219-226.	6.2	13
20	Role of component layers in designing carbon nanotubes-based tandem absorber on metal substrates for solar thermal applications. Solar Energy Materials and Solar Cells, 2016, 155, 397-404.	6.2	8
21	Controlled growth of high-quality graphene using hot-filament chemical vapor deposition. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	8
22	Vaporâ€“Solid Growth of Molybdenum Oxide Nanowhiskers: Wettability Studies and Growth Process. Nanoscience and Nanotechnology Letters, 2013, 5, 842-849.	0.4	1