

N. Selvakumar

List of Publications by Year in descending order

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32
papers

2,250
citations

331670

21
h-index

434195

31
g-index

32
all docs

32
docs citations

32
times ranked

1972
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of physical vapor deposited (PVD) spectrally selective coatings for mid- and high-temperature solar thermal applications. <i>Solar Energy Materials and Solar Cells</i> , 2012, 98, 1-23.	6.2	531
2	A comparative study of reactive direct current magnetron sputtered CrAlN and CrN coatings. <i>Surface and Coatings Technology</i> , 2006, 201, 2193-2201.	4.8	282
3	TiAlN•TiAlON•Si ₃ N ₄ tandem absorber for high temperature solar selective applications. <i>Applied Physics Letters</i> , 2006, 89, 191909.	3.3	119
4	Structure, optical properties and thermal stability of pulsed sputter deposited high temperature HfO _x /Mo/HfO ₂ solar selective absorbers. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 1412-1420.	6.2	107
5	Carbon Nanotube•Based Tandem Absorber with Tunable Spectral Selectivity: Transition from Near•Perfect Blackbody Absorber to Solar Selective Absorber. <i>Advanced Materials</i> , 2014, 26, 2552-2557.	21.0	95
6	Optical properties and thermal stability of TiAlN/AlON tandem absorber prepared by reactive DC/RF magnetron sputtering. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1425-1433.	6.2	91
7	Deposition and characterization of TiAlN/TiAlON/Si ₃ N ₄ tandem absorbers prepared using reactive direct current magnetron sputtering. <i>Thin Solid Films</i> , 2008, 516, 6071-6078.	1.8	89
8	Structure and optical properties of pulsed sputter deposited Cr _x O _y •Cr•Cr ₂ O ₃ solar selective coatings. <i>Journal of Applied Physics</i> , 2008, 103, .	2.5	89
9	Spectrally selective NbAlN/NbAlON/Si ₃ N ₄ tandem absorber for high-temperature solar applications. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 495-504.	6.2	87
10	Optical properties and thermal stability of pulsed-sputter-deposited Al _x O _y /Al/Al _x O _y multilayer absorber coatings. <i>Solar Energy Materials and Solar Cells</i> , 2009, 93, 315-323.	6.2	79
11	Design and fabrication of highly thermally stable HfMoN/HfON/Al ₂ O ₃ tandem absorber for solar thermal power generation applications. <i>Solar Energy Materials and Solar Cells</i> , 2012, 102, 86-92.	6.2	79
12	Nanolayered multilayer coatings of CrN/CrAlN prepared by reactive DC magnetron sputtering. <i>Applied Surface Science</i> , 2007, 253, 5076-5083.	6.1	78
13	Design and development of ITO/Ag/ITO spectral beam splitter coating for photovoltaic-thermoelectric hybrid systems. <i>Solar Energy</i> , 2017, 141, 118-126.	6.1	75
14	Spectroscopic ellipsometric characterization of TiAlN/TiAlON/Si ₃ N ₄ tandem absorber for solar selective applications. <i>Applied Surface Science</i> , 2008, 254, 1694-1699.	6.1	73
15	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. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	53
16	Enhanced optical absorption of graphene-based heat mirror with tunable spectral selectivity. <i>Solar Energy Materials and Solar Cells</i> , 2018, 186, 149-153.	6.2	45
17	The structural and electrical properties of TiO ₂ thin films prepared by thermal oxidation. <i>Physica B: Condensed Matter</i> , 2008, 403, 3718-3723.	2.7	42
18	Thermal stability of TiAlN•TiAlON•Si ₃ N ₄ tandem absorbers prepared by reactive direct current magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007, 25, 383-390.	2.1	37

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19	Spectrally selective CrMoN/CrON tandem absorber for mid-temperature solar thermal applications. <i>Solar Energy Materials and Solar Cells</i> , 2013, 109, 97-103.	6.2	35
20	Effect of substrate roughness on the apparent surface free energy of sputter deposited superhydrophobic polytetrafluoroethylene thin films. <i>Applied Physics Letters</i> , 2009, 95, 033116.	3.3	29
21	Design and Development of a Hybrid Broadband Radar Absorber Using Metamaterial and Graphene. <i>IEEE Transactions on Antennas and Propagation</i> , 2019, 67, 5446-5452.	5.1	28
22	Wettability of ZnO: A comparison of reactively sputtered; thermally oxidized and vacuum annealed coatings. <i>Applied Surface Science</i> , 2011, 257, 4410-4417.	6.1	21
23	AlMoN based spectrally selective coating with improved thermal stability for high temperature solar thermal applications. <i>Solar Energy</i> , 2015, 119, 114-121.	6.1	17
24	Optical simulation and fabrication of HfMoN/HfON/Al ₂ O ₃ spectrally selective coating. <i>Solar Energy Materials and Solar Cells</i> , 2015, 140, 328-334.	6.2	16
25	Nanometer thick tunable AlHfN coating for solar thermal applications: Transition from absorber to antireflection coating. <i>Solar Energy Materials and Solar Cells</i> , 2015, 137, 219-226.	6.2	13
26	Investigation of interface properties of sputter deposited TiN/CrN superlattices by low angle x-ray reflectivity. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 205409.	2.8	12
27	Role of component layers in designing carbon nanotubes-based tandem absorber on metal substrates for solar thermal applications. <i>Solar Energy Materials and Solar Cells</i> , 2016, 155, 397-404.	6.2	8
28	Controlled growth of high-quality graphene using hot-filament chemical vapor deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	8
29	Sprayable PEDOT:PSS based spectrally selective coating for solar energy harvesting. <i>Solar Energy Materials and Solar Cells</i> , 2021, 221, 110906.	6.2	8
30	Sprayable reduced graphene oxide based high-temperature solar absorber coatings for concentrated solar power applications. <i>International Journal of Energy Research</i> , 2021, 45, 21487-21496.	4.5	3
31	Vapor-Solid Growth of Molybdenum Oxide Nanowhiskers: Wettability Studies and Growth Process. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 5, 842-849.	0.4	1
32	Indigenous development of ultra high vacuum (UHV) magnetron sputtering system for the preparation of Permalloy magnetic thin films. <i>Journal of Physics: Conference Series</i> , 2012, 390, 012081.	0.4	0