

# N Selvakumar

## List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	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
4	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
5	Optical simulation and fabrication of HfMoN/HfON/Al <sub>2</sub> O <sub>3</sub> spectrally selective coating. Solar Energy Materials and Solar Cells, 2015, 140, 328-334.	6.2	16
6	AlMoN based spectrally selective coating with improved thermal stability for high temperature solar thermal applications. Solar Energy, 2015, 119, 114-121.	6.1	17
7	Carbon Nanotube-Based Tandem Absorber with Tunable Spectral Selectivity: Transition from Near-Perfect Blackbody Absorber to Solar Selective Absorber. Advanced Materials, 2014, 26, 2552-2557.	21.0	95
8	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
9	Vapor-Solid Growth of Molybdenum Oxide Nanowhiskers: Wettability Studies and Growth Process. Nanoscience and Nanotechnology Letters, 2013, 5, 842-849.	0.4	1
10	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
11	Design and fabrication of highly thermally stable HfMoN/HfON/Al <sub>2</sub> O <sub>3</sub> tandem absorber for solar thermal power generation applications. Solar Energy Materials and Solar Cells, 2012, 102, 86-92.	6.2	79
12	Wettability of ZnO: A comparison of reactively sputtered; thermally oxidized and vacuum annealed coatings. Applied Surface Science, 2011, 257, 4410-4417.	6.1	21
13	Structure, optical properties and thermal stability of pulsed sputter deposited high temperature HfOx/Mo/HfO <sub>2</sub> solar selective absorbers. Solar Energy Materials and Solar Cells, 2010, 94, 1412-1420.	6.2	107
14	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
15	Optical properties and thermal stability of pulsed-sputter-deposited Al <sub>x</sub> O <sub>y</sub> /Al/Al <sub>x</sub> O <sub>y</sub> multilayer absorber coatings. Solar Energy Materials and Solar Cells, 2009, 93, 315-323.	6.2	79
16	Spectrally selective NbAlN/NbAlON/Si <sub>3</sub> N <sub>4</sub> tandem absorber for high-temperature solar applications. Solar Energy Materials and Solar Cells, 2008, 92, 495-504.	6.2	87
17	Deposition and characterization of TiAlN/TiAlON/Si <sub>3</sub> N <sub>4</sub> tandem absorbers prepared using reactive direct current magnetron sputtering. Thin Solid Films, 2008, 516, 6071-6078.	1.8	89
18	Spectroscopic ellipsometric characterization of TiAlN/TiAlON/Si <sub>3</sub> N <sub>4</sub> tandem absorber for solar selective applications. Applied Surface Science, 2008, 254, 1694-1699.	6.1	73

#	ARTICLE	IF	CITATIONS
19	Structure and optical properties of pulsed sputter deposited $\text{Cr}_x\text{O}_y\text{-Cr}\text{-Cr}_2\text{O}_3$ solar selective coatings. Journal of Applied Physics, 2008, 103, .	2.5	89
20	Thermal stability of $\text{TiAlN}\text{-TiAlON}\text{-Si}_3\text{N}_4$ 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
21	$\text{TiAlN}\text{-TiAlON}\text{-Si}_3\text{N}_4$ tandem absorber for high temperature solar selective applications. Applied Physics Letters, 2006, 89, 191909.	3.3	119
22	A comparative study of reactive direct current magnetron sputtered $\text{CrAlN}$ and $\text{CrN}$ coatings. Surface and Coatings Technology, 2006, 201, 2193-2201.	4.8	282