T A Nirmal Peiris

List of Publications by Year
in descending order

20 papers	603 citations	687363 13 h-index	752698 20 g-index
21 all docs	21 docs citations	21 times ranked	1208 citing authors

#	Article	IF	Citations
1	100â€‰Â°C Thermal Stability of Printable Perovskite Solar Cells Using Porous Carbon Counter Electrodes. ChemSusChem, 2016, 9, 2604-2608.	6.8	103
2	Analysis of Sputtering Damage on <i>I</i>â€“<i>V</i> Curves for Perovskite Solar Cells and Simulation with Reversed Diode Model. Journal of Physical Chemistry C, 2016, 120, 28441-28447.	3.1	61
3	Aerosolâ€Assisted CVD of Bismuth Vanadate Thin Films and Their Photoelectrochemical Properties. Chemical Vapor Deposition, 2015, 21, 41-45.	1.3	55
4	Microwave-Assisted Synthesis and Processing of Al-Doped, Ga-Doped, and Al, Ga Codoped ZnO for the Pursuit of Optimal Conductivity for Transparent Conducting Film Fabrication. ACS Sustainable Chemistry and Engineering, 2017, 5, 4820-4829.	6.7	45
5	Enhanced Performance of Flexible Dye-Sensitized Solar Cells: Electrodeposition of Mg(OH)₂ on a Nanocrystalline TiO₂ Electrode. Journal of Physical Chemistry C, 2012, 116, 1211-1218.	3.1	41
6	Preparation of Nanocrystalline TiO₂ Electrodes for Flexible Dye-Sensitized Solar Cells: Influence of Mechanical Compression. Journal of Physical Chemistry C, 2012, 116, 19053-19061.	3.1	38
7	Effect of ZnO seed layer thickness on hierarchical ZnO nanorod growth on flexible substrates for application in dye-sensitised solar cells. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	34
8	Enhancement of the hole conducting effect of NiO by a N₂blow drying method in printable perovskite solar cells with low-temperature carbon as the counter electrode. Nanoscale, 2017, 9, 5475-5482.	5.6	33
9	Development of molecular precursors for deposition of indium sulphide thin film electrodes for photoelectrochemical applications. Dalton Transactions, 2013, 42, 10919.	3.3	32
10	Thermal Degradation Analysis of Sealed Perovskite Solar Cell with Porous Carbon Electrode at 100â€‰Â°C for 7000â€…h. Energy Technology, 2019, 7, 245-252.	3.8	29
11	Enhancement of Photoelectrochemical Performance of AACVDâ€produced TiO₂ Electrodes by Microwave Irradiation while Preserving the Nanostructure. Chemical Vapor Deposition, 2012, 18, 107-111.	1.3	28
12	Preparation and characterization of mesoporous hydroxyapatite with non-cytotoxicity and heavy metal adsorption capacity. New Journal of Chemistry, 2018, 42, 10271-10278.	2.8	24
13	Electrochemical Determination of the Density of States of Nanostructured NiO Films. ACS Applied Materials & Interfaces, 2014, 6, 14988-14993.	8.0	14
14	Insights into mechanical compression and the enhancement in performance by Mg(OH)2 coating in flexible dye sensitized solar cells. Physical Chemistry Chemical Physics, 2014, 16, 2912.	2.8	12
15	Effect of Electrochemically Deposited MgO Coating on Printable Perovskite Solar Cell Performance. Coatings, 2017, 7, 36.	2.6	11
16	Microfluidic Processing of Ligandâ€Engineered NiO Nanoparticles for Lowâ€Temperature Holeâ€Transporting Layers in Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100342.	5.8	11
17	Electricâ€Field Aerosolâ€Assisted CVD: Synthesis, Characterization, and Properties of Tin Oxide Microballs Prepared from a Single Source Precursor. Chemical Vapor Deposition, 2015, 21, 360-368.	1.3	10
18	Aerosol-assisted fabrication of tin-doped indium oxide ceramic thin films from nanoparticle suspensions. Journal of Materials Chemistry C, 2016, 4, 5739-5746.	5.5	8

#	Article	IF	Citations
19	Non-Aqueous One-Pot SnO₂ Nanoparticle Inks and Their Use in Printable Perovskite Solar Cells. Chemistry of Materials, 2022, 34, 5535-5545.	6.7	7
20	Impact of Anion Impurities in Commercial PbI₂ on Lead Halide Perovskite Films and Solar Cells. , 2021, 3, 351-355.		6