Velmurugan Thavasi

List of Publications by Year
in descending order

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31 papers	3,936 citations	201575 27 h-index	434063 31 g-index
31 all docs	31 docs citations	31 times ranked	6474 citing authors

#	Article	IF	Citations
1	Electrospun nanofibers in energy and environmental applications. Energy and Environmental Science, 2008, 1, 205.	15.6	846
2	Metal Oxides for Dyeâ€Sensitized Solar Cells. Journal of the American Ceramic Society, 2009, 92, 289-301.	1.9	575
3	Controlled electron injection and transport at materials interfaces in dye sensitized solar cells. Materials Science and Engineering Reports, 2009, 63, 81-99.	14.8	285
4	Electrospun Î±-Fe2O3 nanorods as a stable, high capacity anode material for Li-ion batteries. Journal of Materials Chemistry, 2012, 22, 12198.	6.7	249
5	Novel hollow mesoporous 1D TiO2 nanofibers as photovoltaic and photocatalytic materials. Nanoscale, 2012, 4, 1707.	2.8	194
6	Synthesis and characterization of CuO nanofibers, and investigation for its suitability as blocking layer in ZnO NPs based dye sensitized solar cell and as photocatalyst in organic dye degradation. Journal of Solid State Chemistry, 2012, 186, 261-267.	1.4	168
7	Mesophase Ordering of TiO₂ Film with High Surface Area and Strong Light Harvesting for Dye-Sensitized Solar Cell. ACS Applied Materials & Interfaces, 2010, 2, 1844-1850.	4.0	140
8	A first report on the fabrication of vertically aligned anatase TiO2 nanowires by electrospinning: Preferred architecture for nanostructured solar cells. Energy and Environmental Science, 2011, 4, 2807.	15.6	118
9	Photosynthetic hydrogen production. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2010, 11, 101-113.	5.6	108
10	Nanostructured cathode materials: a key for better performance in Li-ion batteries. Journal of Materials Chemistry, 2011, 21, 11040.	6.7	93
11	Simultaneous electrospinâ€“electrosprayed biocomposite nanofibrous scaffolds for bone tissue regeneration. Acta Biomaterialia, 2010, 6, 4100-4109.	4.1	90
12	Temperature and Solvent Effects on Radical Scavenging Ability of Phenols. Journal of Physical Chemistry A, 2009, 113, 3068-3077.	1.1	87
13	Hydrogen photoproduction by use of photosynthetic organisms and biomimetic systems. Photochemical and Photobiological Sciences, 2009, 8, 148-156.	1.6	86
14	Design Modifications in Electrospinning Setup for Advanced Applications. Journal of Nanomaterials, 2011, 2011, 1-17.	1.5	84
15	Facile solution deposition of ZnIn2S4 nanosheet films on FTO substrates for photoelectric application. Nanoscale, 2011, 3, 2602.	2.8	83
16	Facile fabrication of polypyrrole/functionalized multiwalled carbon nanotubes composite as counter electrodes in low-cost dye-sensitized solar cells. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 223, 97-102.	2.0	79
17	Investigation of the Influence of Hydroxy Groups on the Radical Scavenging Ability of Polyphenols. Journal of Physical Chemistry A, 2006, 110, 4918-4923.	1.1	77
18	Conversion efficiency versus sensitizer for electrospun TiO₂nanorod electrodes in dye-sensitized solar cells. Nanotechnology, 2008, 19, 424004.	1.3	71

#	Article	IF	Citations
19	Melt-Electrospun Fibers for Advances in Biomedical Engineering, Clean Energy, Filtration, and Separation. Polymer Reviews, 2011, 51, 265-287.	5.3	70
20	Oxide nanowire networks and their electronic and optoelectronic characteristics. Nanoscale, 2010, 2, 1984.	2.8	58
21	Study on the Feasibility of Bacteriorhodopsin as Bio-Photosensitizer in Excitonic Solar Cell: A First Report. Journal of Nanoscience and Nanotechnology, 2009, 9, 1679-1687.	0.9	54
22	Fabrication and characterization of dye-sensitized solar cells from rutile nanofibers and nanorods. Energy, 2011, 36, 627-632.	4.5	54
23	Tunable hierarchical TiO2 nanostructures by controlled annealing of electrospun fibers: formation mechanism, morphology, crystallographic phase and photoelectrochemical performance analysis. Journal of Materials Chemistry, 2011, 21, 9784.	6.7	52
24	Preparation of Surface Adsorbed and Impregnated Multi-walled Carbon Nanotube/Nylon-6 Nanofiber Composites and Investigation of their Gas Sensing Ability. Sensors, 2009, 9, 86-101.	2.1	51
25	Asia energy mixes from socio-economic and environmental perspectives. Energy Policy, 2009, 37, 4240-4250.	4.2	41
26	Controlled synthesis and photoelectric application of ZnIn2S4 nanosheet/TiO2 nanoparticle composite films. Journal of Materials Chemistry, 2011, 21, 15718.	6.7	39
27	Conductive electrospun PANi-PEO/TiO2 fibrous membrane for photo catalysis. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 640-646.	1.7	36
28	Electrospun Polyimide/Titanium Dioxide Composite Nanofibrous Membrane by Electrospinning and Electrospraying. Journal of Nanoscience and Nanotechnology, 2011, 11, 1154-1159.	0.9	23
29	Protein hot spots at bio-nano interfaces. Materials Today, 2011, 14, 360-365.	8.3	10
30	Dependence of Luminescence Efficiency of CdSe Quantum Dots on Chemical Environments. Journal of Nanoscience and Nanotechnology, 2008, 8, 5615-5623.	0.9	8
31	Bio-sensitized solar cells built from renewable carbon sources. Materials Today Energy, 2022, 23, 100910.	2.5	7