

# 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	Bio-sensitized solar cells built from renewable carbon sources. <i>Materials Today Energy</i> , 2022, 23, 100910.	2.5	7
2	Novel hollow mesoporous 1D TiO <sub>2</sub> nanofibers as photovoltaic and photocatalytic materials. <i>Nanoscale</i> , 2012, 4, 1707.	2.8	194
3	Electrospun $\hat{\pm}$ -Fe <sub>2</sub> O <sub>3</sub> nanorods as a stable, high capacity anode material for Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 12198.	6.7	249
4	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. <i>Journal of Solid State Chemistry</i> , 2012, 186, 261-267.	1.4	168
5	Facile solution deposition of ZnIn <sub>2</sub> S <sub>4</sub> nanosheet films on FTO substrates for photoelectric application. <i>Nanoscale</i> , 2011, 3, 2602.	2.8	83
6	A first report on the fabrication of vertically aligned anatase TiO <sub>2</sub> nanowires by electrospinning: Preferred architecture for nanostructured solar cells. <i>Energy and Environmental Science</i> , 2011, 4, 2807.	15.6	118
7	Nanostructured cathode materials: a key for better performance in Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2011, 21, 11040.	6.7	93
8	Controlled synthesis and photoelectric application of ZnIn <sub>2</sub> S <sub>4</sub> nanosheet/TiO <sub>2</sub> nanoparticle composite films. <i>Journal of Materials Chemistry</i> , 2011, 21, 15718.	6.7	39
9	Melt-Electrospun Fibers for Advances in Biomedical Engineering, Clean Energy, Filtration, and Separation. <i>Polymer Reviews</i> , 2011, 51, 265-287.	5.3	70
10	Facile fabrication of polypyrrole/functionalized multiwalled carbon nanotubes composite as counter electrodes in low-cost dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 223, 97-102.	2.0	79
11	Tunable hierarchical TiO <sub>2</sub> nanostructures by controlled annealing of electrospun fibers: formation mechanism, morphology, crystallographic phase and photoelectrochemical performance analysis. <i>Journal of Materials Chemistry</i> , 2011, 21, 9784.	6.7	52
12	Conductive electrospun PANi-PEO/TiO <sub>2</sub> fibrous membrane for photo catalysis. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011, 176, 640-646.	1.7	36
13	Protein hot spots at bio-nano interfaces. <i>Materials Today</i> , 2011, 14, 360-365.	8.3	10
14	Fabrication and characterization of dye-sensitized solar cells from rutile nanofibers and nanorods. <i>Energy</i> , 2011, 36, 627-632.	4.5	54
15	Electrospun Polyimide/Titanium Dioxide Composite Nanofibrous Membrane by Electrospinning and Electro spraying. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 1154-1159.	0.9	23
16	Design Modifications in Electrospinning Setup for Advanced Applications. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-17.	1.5	84
17	Photosynthetic hydrogen production. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2010, 11, 101-113.	5.6	108
18	Simultaneous electrospinning and electro sprayed biocomposite nanofibrous scaffolds for bone tissue regeneration. <i>Acta Biomaterialia</i> , 2010, 6, 4100-4109.	4.1	90

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19	Oxide nanowire networks and their electronic and optoelectronic characteristics. <i>Nanoscale</i> , 2010, 2, 1984.	2.8	58
20	Mesophase Ordering of TiO <sub>2</sub> Film with High Surface Area and Strong Light Harvesting for Dye-Sensitized Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 1844-1850.	4.0	140
21	Study on the Feasibility of Bacteriorhodopsin as Bio-Photosensitizer in Excitonic Solar Cell: A First Report. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 1679-1687.	0.9	54
22	Preparation of Surface Adsorbed and Impregnated Multi-walled Carbon Nanotube/Nylon-6 Nanofiber Composites and Investigation of their Gas Sensing Ability. <i>Sensors</i> , 2009, 9, 86-101.	2.1	51
23	Asia energy mixes from socio-economic and environmental perspectives. <i>Energy Policy</i> , 2009, 37, 4240-4250.	4.2	41
24	Metal Oxides for Dye-Sensitized Solar Cells. <i>Journal of the American Ceramic Society</i> , 2009, 92, 289-301.	1.9	575
25	Controlled electron injection and transport at materials interfaces in dye sensitized solar cells. <i>Materials Science and Engineering Reports</i> , 2009, 63, 81-99.	14.8	285
26	Hydrogen photoproduction by use of photosynthetic organisms and biomimetic systems. <i>Photochemical and Photobiological Sciences</i> , 2009, 8, 148-156.	1.6	86
27	Temperature and Solvent Effects on Radical Scavenging Ability of Phenols. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3068-3077.	1.1	87
28	Electrospun nanofibers in energy and environmental applications. <i>Energy and Environmental Science</i> , 2008, 1, 205.	15.6	846
29	Conversion efficiency versus sensitizer for electrospun TiO <sub>2</sub> nanorod electrodes in dye-sensitized solar cells. <i>Nanotechnology</i> , 2008, 19, 424004.	1.3	71
30	Dependence of Luminescence Efficiency of CdSe Quantum Dots on Chemical Environments. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 5615-5623.	0.9	8
31	Investigation of the Influence of Hydroxy Groups on the Radical Scavenging Ability of Polyphenols. <i>Journal of Physical Chemistry A</i> , 2006, 110, 4918-4923.	1.1	77