

# Alagappan Annamalai

## List of Publications by Year in descending order

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22  
papers

848  
citations

567281

15  
h-index

677142

22  
g-index

22  
all docs

22  
docs citations

22  
times ranked

1253  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave-Induced Structural Ordering of Resilient Nanostructured $\text{Li}_0\text{-FePt}$ Catalysts for Oxygen Reduction Reaction. <i>ACS Applied Energy Materials</i> , 2020, 3, 9785-9791.	5.1	4
2	More than protection: the function of $\text{TiO}_2$ interlayers in hematite functionalized Si photoanodes. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 28459-28467.	2.8	3
3	A microstructured p-Si photocathode outcompetes Pt as a counter electrode to hematite in photoelectrochemical water splitting. <i>Dalton Transactions</i> , 2019, 48, 1166-1170.	3.3	6
4	Evaluation of fluorine and sulfonic acid co-functionalized graphene oxide membranes under hydrogen proton exchange membrane fuel cell conditions. <i>Sustainable Energy and Fuels</i> , 2019, 3, 1790-1798.	4.9	13
5	Influence of $\text{Sb}^{5+}$ as a Double Donor on Hematite ( $\text{Fe}^{3+}$ ) Photoanodes for Surface-Enhanced Photoelectrochemical Water Oxidation. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 16467-16473.	8.0	50
6	Effect of tetravalent dopants on hematite nanostructure for enhanced photoelectrochemical water splitting. <i>Applied Surface Science</i> , 2018, 427, 1203-1212.	6.1	51
7	Fabrication of microporous layer "free hierarchical gas diffusion electrode as a low Pt-loading PEMFC cathode by direct growth of helical carbon nanofibers. <i>RSC Advances</i> , 2018, 8, 41566-41574.	3.6	16
8	Photo-electrochemical hydrogen production from neutral phosphate buffer and seawater using micro-structured p-Si photo-electrodes functionalized by solution-based methods. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2215-2223.	4.9	14
9	Enhancing $\text{Bi}_2\text{S}_3$ sensitised mesoporous $\text{TiO}_2$ solar cells by co-sensitisation with $\text{Bi}_2\text{S}_3/\text{CdS}$ quantum dots. <i>International Journal of Nanotechnology</i> , 2016, 13, 354.	0.2	3
10	Trade-off between Zr Passivation and Sn Doping on Hematite Nanorod Photoanodes for Efficient Solar Water Oxidation: Effects of a $\text{ZrO}_2$ Underlayer and FTO Deformation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 19428-19437.	8.0	51
11	Sn/Be Sequentially co-doped Hematite Photoanodes for Enhanced Photoelectrochemical Water Oxidation: Effect of $\text{Be}^{2+}$ as co-dopant. <i>Scientific Reports</i> , 2016, 6, 23183.	3.3	75
12	Fabrication of superior $\text{Fe}_2\text{O}_3$ nanorod photoanodes through ex-situ Sn-doping for solar water splitting. <i>Solar Energy Materials and Solar Cells</i> , 2016, 144, 247-255.	6.2	101
13	Photoelectrochemical, impedance and optical data for self Sn-diffusion doped $\text{Fe}_2\text{O}_3$ photoanodes fabricated at high temperature by one and two-step annealing methods. <i>Data in Brief</i> , 2015, 5, 796-804.	1.0	16
14	Exploiting the dynamic Sn diffusion from deformation of FTO to boost the photocurrent performance of hematite photoanodes. <i>Solar Energy Materials and Solar Cells</i> , 2015, 141, 71-79.	6.2	48
15	Activation of Hematite Photoanodes for Solar Water Splitting: Effect of FTO Deformation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 3810-3817.	3.1	108
16	Bifunctional $\text{TiO}_2$ underlayer for $\text{Fe}_2\text{O}_3$ nanorod based photoelectrochemical cells: enhanced interface and $\text{Ti}^{4+}$ doping. <i>Journal of Materials Chemistry A</i> , 2015, 3, 5007-5013.	10.3	90
17	Fine-Tuning Pulse Reverse Electrodeposition for Enhanced Photoelectrochemical Water Oxidation Performance of $\text{Fe}_2\text{O}_3$ Photoanodes. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5281-5292.	3.1	30
18	Role of Graphene Oxide as a Sacrificial Interlayer for Enhanced Photoelectrochemical Water Oxidation of Hematite Nanorods. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19996-20002.	3.1	29

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19	Preparation and electrochemical properties of surface-charge-modified Zn <sub>2</sub> SnO <sub>4</sub> nanoparticles as anodes for lithium-ion batteries. <i>Electrochimica Acta</i> , 2012, 76, 192-200.	5.2	47
20	Surface properties and dye loading behavior of Zn <sub>2</sub> SnO <sub>4</sub> nanoparticles hydrothermally synthesized using different mineralizers. <i>Materials Characterization</i> , 2011, 62, 1007-1015.	4.4	33
21	Properties of hydrothermally synthesized Zn <sub>2</sub> SnO <sub>4</sub> nanoparticles using Na <sub>2</sub> CO <sub>3</sub> as a novel mineralizer. <i>Materials Characterization</i> , 2010, 61, 873-881.	4.4	45
22	Unimolecular Reactions of Proton-Bound Cluster Ions: Competition between Dissociation and Isomerization in the Ethanol~Acetonitrile Dimer. <i>Journal of Physical Chemistry A</i> , 2000, 104, 8505-8511.	2.5	15