Alagappan Annamalai

List of Publications by Year
in descending order

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	Activation of Hematite Photoanodes for Solar Water Splitting: Effect of FTO Deformation. Journal of Physical Chemistry C, 2015, 119, 3810-3817.	3.1	108
2	Fabrication of superior Î±-Fe2O3 nanorod photoanodes through ex-situ Sn-doping for solar water splitting. Solar Energy Materials and Solar Cells, 2016, 144, 247-255.	6.2	101
3	Bifunctional TiO₂ underlayer for Î±-Fe₂O₃ nanorod based photoelectrochemical cells: enhanced interface and Ti⁴⁺ doping. Journal of Materials Chemistry A, 2015, 3, 5007-5013.	10.3	90
4	Sn/Be Sequentially co-doped Hematite Photoanodes for Enhanced Photoelectrochemical Water Oxidation: Effect of Be2+ as co-dopant. Scientific Reports, 2016, 6, 23183.	3.3	75
5	Trade-off between Zr Passivation and Sn Doping on Hematite Nanorod Photoanodes for Efficient Solar Water Oxidation: Effects of a ZrO₂ Underlayer and FTO Deformation. ACS Applied Materials & Interfaces, 2016, 8, 19428-19437.	8.0	51
6	Effect of tetravalent dopants on hematite nanostructure for enhanced photoelectrochemical water splitting. Applied Surface Science, 2018, 427, 1203-1212.	6.1	51
7	Influence of Sb⁵⁺as a Double Donor on Hematite (Fe³⁺) Photoanodes for Surface-Enhanced Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2018, 10, 16467-16473.	8.0	50
8	Exploiting the dynamic Sn diffusion from deformation of FTO to boost the photocurrent performance of hematite photoanodes. Solar Energy Materials and Solar Cells, 2015, 141, 71-79.	6.2	48
9	Preparation and electrochemical properties of surface-charge-modified Zn2SnO4 nanoparticles as anodes for lithium-ion batteries. Electrochimica Acta, 2012, 76, 192-200.	5.2	47
10	Properties of hydrothermally synthesized Zn2SnO4 nanoparticles using Na2CO3 as a novel mineralizer. Materials Characterization, 2010, 61, 873-881.	4.4	45
11	Surface properties and dye loading behavior of Zn2SnO4 nanoparticles hydrothermally synthesized using different mineralizers. Materials Characterization, 2011, 62, 1007-1015.	4.4	33
12	Fine-Tuning Pulse Reverse Electrodeposition for Enhanced Photoelectrochemical Water Oxidation Performance of Î±-Fe₂O₃ Photoanodes. Journal of Physical Chemistry C, 2015, 119, 5281-5292.	3.1	30
13	Role of Graphene Oxide as a Sacrificial Interlayer for Enhanced Photoelectrochemical Water Oxidation of Hematite Nanorods. Journal of Physical Chemistry C, 2015, 119, 19996-20002.	3.1	29
14	Photoelectrochemical, impedance and optical data for self Sn-diffusion doped Fe 2 O 3 photoanodes fabricated at high temperature by one and two-step annealing methods. Data in Brief, 2015, 5, 796-804.	1.0	16
15	Fabrication of microporous layer â€“ free hierarchical gas diffusion electrode as a low Pt-loading PEMFC cathode by direct growth of helical carbon nanofibers. RSC Advances, 2018, 8, 41566-41574.	3.6	16
16	Unimolecular Reactions of Proton-Bound Cluster Ions:â€‰ Competition between Dissociation and Isomerization in the Ethanolâˆ’Acetonitrile Dimer. Journal of Physical Chemistry A, 2000, 104, 8505-8511.	2.5	15
17	Photo-electrochemical hydrogen production from neutral phosphate buffer and seawater using micro-structured p-Si photo-electrodes functionalized by solution-based methods. Sustainable Energy and Fuels, 2018, 2, 2215-2223.	4.9	14
18	Evaluation of fluorine and sulfonic acid co-functionalized graphene oxide membranes under hydrogen proton exchange membrane fuel cell conditions. Sustainable Energy and Fuels, 2019, 3, 1790-1798.	4.9	13

#	Article	IF	Citations
19	A microstructured p-Si photocathode outcompetes Pt as a counter electrode to hematite in photoelectrochemical water splitting. Dalton Transactions, 2019, 48, 1166-1170.	3.3	6
20	Microwave-Induced Structural Ordering of Resilient Nanostructured L1₀-FePt Catalysts for Oxygen Reduction Reaction. ACS Applied Energy Materials, 2020, 3, 9785-9791.	5.1	4
21	Enhancing Bi<SUB align="right">2S<SUB align="right">3 sensitised mesoporous TiO<SUB align="right">2 solar cells by co-sensitisation with Bi<SUB align="right">2S<SUB align="right">3/CdS quantum dots. International Journal of Nanotechnology, 2016, 13, 354.	0.2	3
22	More than protection: the function of TiO₂ interlayers in hematite functionalized Si photoanodes. Physical Chemistry Chemical Physics, 2020, 22, 28459-28467.	2.8	3