

# Dr Rambabu Yalavarthi

## List of Publications by Year in descending order

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17  
papers

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932766

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940134

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docs citations

17  
times ranked

554  
citing authors

#	ARTICLE	IF	CITATIONS
1	Photocatalytic reduction of carbon dioxide using graphene oxide wrapped TiO <sub>2</sub> nanotubes. Applied Surface Science, 2019, 485, 48-55.	3.1	69
2	FeO-based nanostructures and nanohybrids for photoelectrochemical water splitting. Progress in Materials Science, 2020, 110, 100632.	16.0	47
3	Elucidating the role of surface states of BiVO <sub>4</sub> with Mo doping and a CoOOH co-catalyst for photoelectrochemical water splitting. Journal of Power Sources, 2021, 483, 229080.	4.0	46
4	Radiative and Non-Radiative Recombination Pathways in Mixed-Phase TiO <sub>2</sub> Nanotubes for PEC Water-Splitting. Catalysts, 2019, 9, 204.	1.6	38
5	Effect of annealing temperature on the phase transition, structural stability and photo-electrochemical performance of TiO <sub>2</sub> multi-leg nanotubes. Catalysis Today, 2016, 278, 255-261.	2.2	29
6	Enhanced photoelectrochemical performance of multi-leg TiO <sub>2</sub> nanotubes through efficient light harvesting. Journal Physics D: Applied Physics, 2015, 48, 295302.	1.3	26
7	TiO <sub>2</sub> Nanotubes on Transparent Substrates: Control of Film Microstructure and Photoelectrochemical Water Splitting Performance. Catalysts, 2018, 8, 25.	1.6	19
8	Probing the charge recombination in rGO decorated mixed phase (anatase-rutile) TiO <sub>2</sub> multi-leg nanotubes. AIP Advances, 2016, 6, .	0.6	16
9	Enhanced Photo-Electrochemical Performance of Reduced Graphene-Oxide Wrapped TiO <sub>2</sub> Multi-Leg Nanotubes. Journal of the Electrochemical Society, 2016, 163, H652-H656.	1.3	15
10	In situ characterizations of photoelectrochemical cells for solar fuels and chemicals. MRS Energy & Sustainability, 2020, 7, 1.	1.3	11
11	Enhancing Photoelectrochemical Energy Storage by Large-Area CdS-Coated Nickel Nanoantenna Arrays. ACS Applied Energy Materials, 2021, 4, 11367-11376.	2.5	10
12	Photo-electrochemical properties of graphene wrapped hierarchically branched nanostructures obtained through hydrothermally transformed TiO <sub>2</sub> nanotubes. Nanotechnology, 2017, 28, 405706.	1.3	9
13	Multi-Leg TiO <sub>2</sub> Nanotube Photoelectrodes Modified by Platinized Cyanographene with Enhanced Photoelectrochemical Performance. Catalysts, 2020, 10, 717.	1.6	9
14	High photoelectrochemical performance of reduced graphene oxide wrapped, CdS functionalized, TiO <sub>2</sub> multi-leg nanotubes. Nanotechnology, 2020, 31, 275701.	1.3	8
15	Nanoscale Assembly of BiVO <sub>4</sub> /CdS/CoO <sub>x</sub> Core-Shell Heterojunction for Enhanced Photoelectrochemical Water Splitting. Catalysts, 2021, 11, 682.	1.6	7
16	Controlling phase fraction and crystal orientation via thermal oxidation of iron foils for enhanced photoelectrochemical performance. Catalysis Today, 2021, 361, 117-123.	2.2	4
17	Graphene Oxide Modified TiO <sub>2</sub> Micro Whiskers and Their Photo Electrochemical Performance. Journal of Nanoscience and Nanotechnology, 2016, 16, 4835-4839.	0.9	0