

# Dr Rambabu Yalavarthi

## List of Publications by Year in descending order

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17  
papers

363  
citations

933447

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h-index

940533

16  
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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.                                                        | 6.1  | 69        |
| 2  | FeO-based nanostructures and nanohybrids for photoelectrochemical water splitting. Progress in Materials Science, 2020, 110, 100632.                                                                  | 32.8 | 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.             | 7.8  | 46        |
| 4  | Radiative and Non-Radiative Recombination Pathways in Mixed-Phase TiO <sub>2</sub> Nanotubes for PEC Water-Splitting. Catalysts, 2019, 9, 204.                                                        | 3.5  | 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.     | 4.4  | 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.                           | 2.8  | 26        |
| 7  | TiO <sub>2</sub> Nanotubes on Transparent Substrates: Control of Film Microstructure and Photoelectrochemical Water Splitting Performance. Catalysts, 2018, 8, 25.                                    | 3.5  | 19        |
| 8  | Probing the charge recombination in rGO decorated mixed phase (anatase-rutile) TiO <sub>2</sub> multi-leg nanotubes. AIP Advances, 2016, 6, .                                                         | 1.3  | 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.                      | 2.9  | 15        |
| 10 | In situ characterizations of photoelectrochemical cells for solar fuels and chemicals. MRS Energy & Sustainability, 2020, 7, 1.                                                                       | 3.0  | 11        |
| 11 | Enhancing Photoelectrochemical Energy Storage by Large-Area CdS-Coated Nickel Nanoantenna Arrays. ACS Applied Energy Materials, 2021, 4, 11367-11376.                                                 | 5.1  | 10        |
| 12 | Photo-electrochemical properties of graphene wrapped hierarchically branched nanostructures obtained through hydrothermally transformed TiO <sub>2</sub> nanotubes. Nanotechnology, 2017, 28, 405706. | 2.6  | 9         |
| 13 | Multi-Leg TiO <sub>2</sub> Nanotube Photoelectrodes Modified by Platinized Cyanographene with Enhanced Photoelectrochemical Performance. Catalysts, 2020, 10, 717.                                    | 3.5  | 9         |
| 14 | High photoelectrochemical performance of reduced graphene oxide wrapped, CdS functionalized, TiO <sub>2</sub> multi-leg nanotubes. Nanotechnology, 2020, 31, 275701.                                  | 2.6  | 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.                                  | 3.5  | 7         |
| 16 | Controlling phase fraction and crystal orientation via thermal oxidation of iron foils for enhanced photoelectrochemical performance. Catalysis Today, 2021, 361, 117-123.                            | 4.4  | 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         |