

Nano Crystal # 2

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Muzaffar Ahmad Boda completed his B.Sc in 2009 from University of Kashmir with 1st division and obtained his Master's degree in Physics in 2012 from the University of Kashmir (J & K), India, with 1st division. He has qualified for the prestigious National Eligibility Test (NET/JRF) with AIR - 16 in Physical Sciences conducted by CSIR-UGC. He is currently pursuing his PhD in Physics (Materials Science) from National Institute of Technology, Srinagar -190006 in collaboration with Deptt. Of Physics, IIT Madras. He has published his work in various well impacted SCI journals. During his Ph.D he has also presented his research work in several National and International Conferences.

He is currently working on water splitting for the generation of hydrogen gas (future fuel) using electrochemically anodized TiO₂ nanotube array.

List Of Publications

1. **Muzaffar Ahmad Boda** and Mohammad Ashraf Shah. "Fabrication of ZnFe₂O₄/TiO₂ nanotube array composite to harness the augmented photocurrent density under visible light." *Applied Physics A*, 124.1 (2018): 55, (SCI).
2. **Muzaffar Ahmad Boda** and Mohammad Ashraf Shah. "Enhanced photo-electrochemical potential of Fe₂O₃ modified TiO₂ nanotube array with multiple legs." *Journal of Materials Science: Materials in Electronics*: 1-6, (SCI)
3. **Muzaffar Ahmad Boda** and Mohammad Ashraf Shah. "Augmented Photoelectrochemical Efficiency of ZnO/TiO₂ Nanotube Heterostructures." *Journal of Electronic Materials* 46.11 (2017): 6698-6703, (SCI)
4. **Muzaffar Ahmad Boda** and Mohammad Ashraf Shah. "Fabrication mechanism of compact TiO₂ nanotubes and their photo-electrochemical ability." *Materials Research Express* 4.7 (2017): 075908, (SCIE).
5. **Muzaffar Ahmad Boda** and Mohammad Ashraf Shah. "Enhancement in photo-electrochemical efficiency by reducing recombination rate in branched TiO₂ nanotube array on functionalizing with ZnO micro crystals." *Materials Research Express* (2018), (SCIE).