

LIST OF PUBLICATIONS

1. Cubic mesoporous Ag@CN: A highly efficient humidity sensor
Vijay K. Tomer, **Nishanthi Thangaraj**, Sweta Gahlot, Kamalakannan Kailasam
Nanoscale 8 (2016) 19794-19803.
2. Optimising the crystallinity of anatase TiO₂ nanospheres for the degradation of Congo red dye, M. Malligavathy, S. Iyyapushpam, **S.T. Nishanthi**, D. Pathinettam Padiyan, *Journal of Experimental Nanoscience* 11 (2016) 1074-1086.
3. Synthesis of β -Bi₂O₃ towards the application of photocatalytic degradation of methyl orange and its instability, S. Iyyapushpam, **S.T. Nishanthi**, D. Pathinettam Padiyan
Journal of Physics and Chemistry of Solids 81 (2015) 74-78.
4. Enhancement in hydrogen generation using bamboo like TiO₂ nanotubes fabricated by a modified two-step anodization technique
S.T. Nishanthi, B. Sundarakannan, E. Subramanian, D. Pathinettam Padiyan
Renewable Energy 77 (2015) 300-307.
5. Plasmonic silver nanoparticles loaded titania nanotube arrays exhibiting enhanced photoelectrochemical and photocatalytic activities
S.T. Nishanthi, S. Iyyapushpam, B. Sundarakannan, E. Subramanian, D. Pathinettam Padiyan, *Journal of Power Sources* 274 (2015) 885-893.
6. An insight into the influence of morphology on the photoelectrochemical activity of TiO₂ nanotube arrays, **S.T. Nishanthi**, E. Subramanian, B. Sundarakannan, D. Pathinettam Padiyan, *Solar Energy Materials & Solar Cells* 132 (2015) 204-209.
7. Significance of crystallinity on the photoelectrochemical and photocatalytic activity of TiO₂ nanotube arrays
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9. Inter-relationship between extent of anatase crystalline phase and photocatalytic activity of TiO₂ nanotubes prepared by anodization and annealing method
S.T. Nishanthi, S. Iyyapushpam, B. Sundarakannan, E. Subramanian, D. Pathinettam Padiyan, *Separation and Purification Technology* 131 (2014) 102-107.
10. Photocatalytic degradation of methyl orange using α -Bi₂O₃ prepared without surfactant, S. Iyyapushpam, **S.T. Nishanthi**, D. Pathinettam Padiyan

Journal of Alloys and Compounds 563 (2013) 104-107.

11. Remarkable role of annealing time on anatase phase titania nanotubes and its photoelectrochemical response
S.T. Nishanthi, D. Henry Raja, E. Subramanian, D. Pathinettam Padiyan
Electrochimica Acta 89 (2013) 239-245.
12. Synthesis of room temperature bismuth oxide and its photocatalytic activity
S. Iyyapushpam, **S.T. Nishanthi**, D. Pathinettam Padiyan,
Materials letters 86 (2012) 25-27.
13. Remarkable catalytic activity of Bi₂O₃/TiO₂ nanocomposites prepared by hydrothermal method for the degradation of methyl orange
M. Malligavathy, S. Iyyapushpam, **S.T. Nishanthi**, D. Pathinettam Padiyan
Journal of Nanoparticle Research 19 (2017) 14.
14. Investigation of oxygen vacancies in Ce coupled TiO₂ nanocomposites by Raman and PL spectra
J. Dhanalakshmi, S. Iyyapushpam, **S.T. Nishanthi**, M. Malligavathy and D. Pathinettam Padiyan ***Advances in Natural Sciences: Nanoscience and Nanotechnology*** 8 (2016)