

SELECTED SCIENTIFIC ARTICLES USING OUR STR RAMAN SPECTROMETER

1. "Emergence of ferroelectric switching in self organized $\text{Pr}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ nanocrystal array", **V. K Shukla et al., RSC Adv., 2016, Volume 6, Pages 93130-93136**
2. "Surface and structural studies of fullerene C_{70} under ion irradiation", **P. Sharma., Surface Engineering, Volume 32, 2016, Issue 11, Pages 846-852,**
3. "Anomalous ferroelectric switching dynamics in single crystalline SrTiO_3 ", **V. K Shukla et al., Journal of Applied Physics, 2016, Volume 120, Number 15**
4. "Hollow Gold Nanoprism as Highly Efficient 'Single' Nanotransducer for Surface Enhanced Raman Scattering Applications", **B. Hazra et al., J. Phys. Chem. C, 2016, Volume 120, Issue 44, pages 25548-25556**
5. "Synthesis and Bio-Compatibility Study of Thermal-CVD Grown Graphene", **M. Chakravarty et al., International Journal of Nanoscience, 2016, Volume 15, Issue 05,**
6. "Synthesis and electrochemical characterization of olivine-type lithium iron phosphate cathode materials via different techniques", **R. Muruganantham et al., Ionics, September 2016, Volume 22, Issue 9, pages 1557-156**
7. "Selective detection of Escherichia coli DNA using fluorescent carbon spindles", **A. Roy et al., Phys. Chem. Chem. Phys., 2016, Volume 18, pages 12270-12277**
8. "Photonic nanojet-mediated SERS technique for enhancing the Raman scattering of a few molecules", **G. M Das et al., Journal of Raman Spectroscopy, Volume 47, Issue 8, August 2016 ,Pages 895-900**
9. "Photoelectrochemical study of MoO_3 assorted morphology films formed by thermal evaporation", **R. Senthilkumar et al., Journal of Energy Chemistry, Volume 25, Issue 5, September 2016, Pages 798-804**
10. "Tunable morphology with selective faceted growth of visible light active TiO_2 thin films by facile hydrothermal method: structural, optical and photocatalytic properties", **C. Ravidhas et al., Journal of Materials Science: Materials in Electronics, May 2016, Volume 27, Issue 5, Pages 5020-5032**
11. "Correlation between lattice strain and magnetic behavior in non-magnetic Ca substituted nanocrystalline cobalt ferrite", **R. Kumar et al., Ceramics International, Volume 42, Issue 6, 1 May 2016, Pages 6640-6647**
12. "Studies on growth and characterization of heterogeneous tungsten oxide nanostructures for photoelectrochemical and gas sensing applications", **R. Senthilkumar et al., Applied Surface Science, Volume 362, 30 January 2016, Pages 102-108**



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13. " Role of silica coating in influencing emission properties of CdSe NPs and photodegradation of methylene blue solution", **M. Verma et al., Sci: Mater Electron, 2016, Volume 27: 11248**
14. "Plant pathogenic fungus F. solani mediated biosynthesis of nanoceria: antibacterial and antibiofilm activity", **K. S. Venkatesh et al., RSC Adv., 2016, Volume 6, Pages 42720-42729**
15. "Structural and magnetic behavior of Ni/Mn co-doped ZnO nanoparticles prepared by co-precipitation method", **G. Vijayaprasath et al., Ceramics International, February 2016, Volume 42, Issue 2, Pages 2836-2845**
16. "Structural characterization and magnetic properties of Co co-doped Ni/ZnO nanoparticles", **G. Vijayaprasath et al., Appl. Phys. A , 2016, Volume 122, Issue 122.**
17. "Envisaging Structural Insight of a Terminally Protected Proline Dipeptide by Raman Spectroscopy and DFT Analyses", **S. Das et al., J. Phys. Chem. A, November 21, 2016**
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25. "An alternate approach to synthesize TiC powder through thermal plasma processing of titania rich slag", **S. Kasimuthumaniyan et al., Ceramics International, December 2016, Volume 42, Issue 16, Pages 18004-18011**



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