

DEPARTMENT OF PHYSICS, SSNCE (2019)

JOURNAL PUBLICATIONS (2019)

1. Gopi Govindhan, Edward Prabhu Amaldass, Anandha Babu.G, Ganesamoorthy Sarveswaran, Awadesh Man, “Studies on Shubinikov-deHass oscillations in p-Sb₂Te₂Se topological insulators”, Materials Research Bulletin(Accepted)
2. P.Aravinth Kumar, Arun Kumar, Keshav Kumar, G. Anandha Babu, S. Ganesamoorthy, and Dhananjai Pandey, “Evidence for Spin Glass Transition in Hexagonal DyMnO₃ without Substitutional Disorder”, J. Phys. Chem. C , Vol 123, 2019, 30499-30508
3. Latha.G, Prita Nair and Resmi K.S, “SPR Aided PCF based Beam Modifiers for Efficient Coupling to Rectangular Planar Waveguides”, International Journal of Current Engineering and Technology, Vol.9, No.1 (Jan/Feb 2019),pp 17-23
4. Suganthi Muthusamy, Julie Charles, M.S. Michael, K. Shree Kesavan , “Enhanced specific capacitance of a novel ternary polypyrrole incorporated with prussian blue and mesoporous carbon black for high performance supercapacitor applications’, Materials Research Bulletin, Volume 120, 2019, pp. 110587.
5. Julie Charles, Suganthi Muthusamy, ” Facile Synthesis of Ternary Polypyrrole/Prussian blue/Titanium dioxide Composite and Their Performance for Isopropyl Alcohol Sensing at Room Temperature “, AIP Proceedings, Vol 2166, 2019, pp. 1-6
6. Rajesh Narayana Perumal, Venkataraj Athikesavan , “Studies on 0.95Bi0.5(Na0.40K0.10)TiO₃ 0.50(Ba0.7Sr0.3)TiO₃ ceramics for piezoelectric applications under different sintering temperature”, Ferroelectrics, Vol540, July 2019 pp 65-67
7. R.P.Jebin,T.Suthan, N.P.Rajesh,G.Vinitha, “Growth and characterization of organic material 3,4,5-trimethoxybenzaldehyde single crystal for optical applications”, Optics & Laser Technology, Vol 115, July 2019, pp 500-507
8. D.N. Krishnakumar and Narayana Perumal Rajesh, “Luminescence characteristics of silver and rare earth co-doped KCl single crystals grown from melt using Czochralski technique’, Optik, Vol 183, April 2019, pp 148-153
9. T.Arivazhagan, G.Vinitha, Narayana Perumal Rajesh, “Growth and characterization of diphenylmethanol single crystal by vertical Bridgman technique for second and third order nonlinear optical applications”, Journal of Crystal Growth, Vol 512, April 2019pp 181-188

10. S. Sadhasivam, Rajesh Narayana Perumal, “High temperature molten flux growth, structural and optical characteristics of $\text{KTiOPO}_4\text{:Ho}$ and $\text{KTiOPO}_4\text{:Er}$ single crystals”, *Journal of Crystal Growth*, Vol 512, April 2019 pp 152-158
11. Narayana Perumal Rajesh, V. Jabha Ananthi, G. Vinitha,” Investigations on single crystal growth and nonlinear optical studies of 2-Hydroxy-1- naphthaldehyde”, *Journal of Crystal Growth*, Vol 511, April 2019, pp 25-32
12. D.N. Krishnakumar and Narayana Perumal Rajesh, “ Growth and Optical Characterization of Europium and Cerium Doped KCl Single Crystals by Czochralski Method for Dosimetric Applications”, *Journal of Electronic Materials*, Vol 48, March 2019 pp 1629-1633
13. Rajesh Narayana Perumal, Aloysius Xavier Lopez, G. Subalakshmi, “Synthesis and luminescence property of Bi^{3+} and Dy^{3+} ions doped MLa_2O_4 (M=Ba, Sr and Ca) phosphors for LEDs application”, *Optik*, Vol 179, Feb 2019, pp 1001-1008
14. Rajesh Narayana Perumal, Venkatraj Athikesava, “Investigations on electrical and energy storage behaviour of PZN-PT, PMN-PT, PZN–PMN-PT piezoelectric solid solutions”, *Journal of Materials Science: Materials in Electronics*, Vol30, Jan 2019, pp 902-913
15. M. Jayachandiran, S. Masilla Moses Kennedy, “Synthesis and optical properties of $\text{Ba}_3\text{Bi}_2(\text{PO}_4)_4\text{:Dy}^{3+}$ phosphors for white light emitting diodes”, *Journal of Alloys and Compounds*, Vol 775, Feb 2019, pp 353-359
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19. S.Singaravadevelu, A.Uthayakumar, P. Balaji Bhargav, “Study of the relative growth rate, the anisotropy of electrical resistivity and anomalous photocurrent behavior of the unidirectional grown Rochelle salt crystals”, *Ferroelectrics*, Vol.550, 2019, pp 112-116

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24. R. Ravisankar M. Tholkappian A. Chandrasekaran P. Eswaran Atef El-Taher, "Effects of physicochemical properties on heavy metal, magnetic susceptibility and natural radionuclides with statistical approach in the Chennai coastal sediment of east coast of Tamilnadu, India", Applied Water Science, Vol 11(31) 2019, pp 1-13
25. S Chinnasami, M Manikandan, S Chandran, R Paulraj, P Ramasamy, "Growth, Hirshfeld surfaces, spectral, quantum chemical calculations, photoconductivity and chemical etching analyses of nonlinear optical p-toluidine p-toluenesulfonate single crystal", Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, Vol 206, 2019, 340-349.
26. S Chinnasami, S Chandran, R Paulraj, P Ramasamy, "Structural, vibrational, Hirshfeld surfaces and optical studies of nonlinear optical organic imidazolium L-tartrate single crystal", Journal of Molecular Structure, vol 1179, 2019, 506-513
27. G Iyappan, P Rajesh, P Ramasamy, "Nucleation kinetics, optical, dielectric, piezoelectric and NLO properties of KADP (85: 15) mixed crystals", Optoelectronics and Advanced Materials-Rapid Communications, Vol 13, 2019, 217-223
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