

List of publications during the last five years

| Sl. No | Title of Paper | Name of Journal/Publisher in case of Book | Date of Publication and Impact factor if any | Volume number and Pages |
|---------------|--|---|---|--------------------------------|
| 1. | Gravitational wave production after inflation for a hybrid inflationary model | International Journal of Modern Physics D, 32, No.11 (2023) 2350075 | IF: 2.547 2023 | 32, No.11 (2023) 2350075 |
| 2. | Primordial gravitational waves by chaotic potential with a sharp step | Physics of the Dark Universe | IF: 5.12 2023 | 42 (2023) 101313 |
| 3. | Running of spectral index for a hybrid inflationary model, 15 - 26 | Mapana Journal of Sciences | IF: 1.5 2023 | Vol. 22, No. 2, 2023 |
| 4. | Ringing non-Gaussianity from inflation with a step in the second derivative of the potential | Pramana Journal of Physics | IF: 2.669 2022 | 96:56 |
| 5 | Constraints on tensor to scalar ratio using WKB approximation, A. Aiswarya and Minu Joy | Journal of Cosmology and Astroparticle Physics | IF: 5.21 2019 | 06, 0918, 2019 |
| 6 | Synthesis, growth, crystal structure, thermal, linear and nonlinear optical analysis of new extended -conjugated organic material based on methyl pyridinium compound of 4-(4-(4-(dimethylamino) phenyl)buta- 1,3-dienyl)-1-methylpyridinium p-styrenesulfonate hydrate. | Journal of Molecular Structure | IF: 3.8 2019 | 1196,699-706 |
| 7 | Crystal growth and characterization of 4-[4-(4- dimethylamino-phenyl) buta-1,3-dienyl]-1-methyl pyridinium iodide for higher order non-linear applications | Optics & Laser Technology | IF: 5.0 2020 | 121, 105831 |

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|---|--|---------------------------------------|-----------------|----------|
| 8 | Structural, thermal, linear and nonlinear optical and cytotoxicity studies of a novel organic stilbazolium salt: 4-[2-(4-hydroxyphenyl) ethenyl]-1-methylpyridinium 4-styrenesulfonate | Journal of Molecular Structure | 2022 IF: 3.8 | 133196 |
| 9 | Poor and rich squirrel algorithm-based Deep Maxout Network for Credit Card Fraud Detection | Int. J. Wireless and Mobile Computing | | In Press |