



**S.K.R. & S.K.R. Govt. College for Women (Autonomous), Kadapa.**

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## **Department of Physics**

### List of Publications by Dr.M.Padmavathi, Faculty of Physics

#### **Book/Book Chapters published**

| <b>S.No</b> | <b>Title</b>                                                    | <b>Authors</b>                                      | <b>Year</b> | <b>Publisher</b> |
|-------------|-----------------------------------------------------------------|-----------------------------------------------------|-------------|------------------|
| 1           | Fiber Optic Vibration Sensors                                   | P.Kishore, D.Dinakar,<br>M.Padmavathi               | 2021        | IntechOpen       |
| 2           | Mechanics, Waves and Oscillations<br>Textbook for B.Sc. Physics | D.Sanjeev Kumar<br>M.Padmavathi<br>B. Durga Lakshmi | 2021        | APSCHE           |
| 3           | SOLAR ENERGY<br>Skill development course for B.Sc               | M.Padmavathi and et al                              | 2022        | AP CCE           |

#### List of Publications

| <b>S.No.</b> | <b>Title Of The Paper And Authors</b>                                                                                         | <b>Name Of The Journal</b>                       | <b>Volume Year</b> | <b>Volume Number</b> | <b>Page Numbers</b> |
|--------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------|----------------------|---------------------|
| 1.           | <b>Structure and Properties of Ca doped Bismuth Oxy Sulphide Superconductor</b><br>M.Padmavathi, R.Singh                      | Journal of Superconductivity and Novel Magnetism | 2015               | 28(11)               | 3255–3265           |
| 2.           | <b>Structural, Transport, and Magnetic Properties of Bismuth Oxysulfide Superconductors</b><br>M.Padmavathi, R.Singh          | Journal of Superconductivity and Novel Magnetism | 2015               | 28(5)                | 1461–1469           |
| 3.           | <b>Effect of Density on the Electrical Properties of MgB<sub>2</sub> Superconductor</b><br>M.Padmavathi, R.Singh              | INDIAN JOURNAL OF CRYOGENICS                     | 2015               | 40(1)                | 209-212             |
| 4.           | <b>Effect of Ca Doping on Superconducting Properties of Bi<sub>4</sub>O<sub>4</sub>S<sub>3</sub></b><br>M.Padmavathi, R.Singh | AIP Conf. Proc.                                  | 2015               | 1665                 | 130024-1–130024-3   |

|     |                                                                                                                                                                                 |                                                                                             |      |       |               |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------|-------|---------------|
| 5.  | Hetero structures of Bi-2212 and MgB <sub>2</sub> Superconductors                                                                                                               | AIP Conf. Proc,                                                                             | 2016 | 1731  | 130035        |
| 6.  | <b>Study on Intensity Modulated Non-Contact Optical Fiber Vibration Sensors of Different Configuration</b><br>D. Dinkar, Putha Kishore, M. Padmavathi                           | International Journal of Physical and Mathematical Sciences                                 | 2017 | 4(4)  | 2008-2011     |
| 7.  | Studies on the Composite System of Bi-2212 Glass Ceramic and MgB <sub>2</sub> Superconductors<br><b>M.Padmavathi, R.Singh</b>                                                   | Journal of Superconductivity and Novel Magnetism                                            | 2018 | 31    | 2313–2320     |
| 8.  | Intensity Modulated Fiber Optic Loop Vibration Measurement<br>Putha Kishore, D. Dinakar, P.V.N Kishore and M. Padmavathi                                                        | International Journal of Advance Foundation And Research In Science & Engineering (IJAFRSE) | 2015 | 1     | Special issue |
| 9.  | Study on Intensity modulated POF Vibration Sensors                                                                                                                              | icOPEN 2019, Thailand                                                                       | 2019 | 11205 | 112050W       |
| 10. | Effect of excess Bi and S on the synthesis of Bi <sub>4</sub> O <sub>4</sub> S <sub>3</sub> Superconductor<br>M. Padmavathi and Putha Kishore                                   | AIP Conf. Proc.                                                                             | 2020 |       | Accepted      |
| 11. | Intensity modulated U-Shaped Bent Tapered Optical Fiber Concentration Sensor,<br>Putha Kishore, D. Dinakar, and M. Padmavathi                                                   | Springer proceedings                                                                        | 2020 | 686   | 957-964       |
| 12. | Laser light Intensity Modulated Cell Growth Rate Monitoring Biosensor,<br>Putha Kishore, D. Dinakar, P. Ravindra Babu, V. Rama Devi, P. Soujanya, T. Maunika, and M. Padmavathi | Journal of Optics                                                                           | 2020 |       |               |