

Dr.Dileep M S

Designation :Assistant Professor
Qualification :M.Sc. Ph.D
Experience :Teaching 12 years
Area of Interest "Nano materials synthesis, Crystallography .
Date of Joining at RVCE : 14/12/2022
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Project:
Number of Doctorate Students

Completed: 00 Guiding: 02

Publication

National Journals	National Conferences	International Journals	International Conferences	Book/Book Chapter Published	Patent Granted/Published
		12	6	06	00/03

International Journal Publications:

1. 'Unlocking nature's potential: Green synthesis of ZnO nanoparticles and their multifaceted applications- A concise overview' M Gadewar, G K Prashanth, MR Babu, **M S Dileep**, P A Prashanth, S rao. Journal of Saudi Chemical society. Vol. 28 (2024) <https://doi.org/10.1016/j.jscs.2023.101774>
2. 'Zinc Oxide Nanostructures: Illuminating the Potential in Biomedical Applications: A Brief Overview' G K Prashanth, **M S Dileep**, Sreelatha. BioNanoScience (2024). <https://doi.org/10.1007/s12668-024-01366-4>
3. '[An evaluation of noble nanocomposites based on zinc oxide: synthesis, characterization, environmental, optical and biomedical applications](#)'. Prashanth G K, Dileep M S, Prashanth P A, S S Sreeja Mole, S R Bosoline Prabhu, B M Nagabushan, S Ravichandran, N P Bhagya. Journal of Optoelectronic and Biomedical Materials Vol. 13, No. 4 (2021).
4. '[Evaluation of antimycobacterial, antioxidant, and anticancer activities of CuO nanoparticles through cobalt doping](#)'. H.M. Sathyananda, P.A. Prashanth, G.K. Prashanth, B.M. Nagabhushana, G.M. Krishnaiah, H.G. Nagendra, M.S. Dileep, S. Ananda, Prabhu Boselin, Applied nanoscience Vol. 12 No. 10 (2021) DOI:[10.1007/s13204-021-02156-0](https://doi.org/10.1007/s13204-021-02156-0)
5. 'Evaluation of antimicrobial, antioxidant, and cytotoxicity activities of CuO nanopellets synthesized by surfactant-free hydrothermal method'. H.M. Sathyananda, P.A. Prashanth, G.K. Prashanth, B.M. Nagabhushana, G.M. Krishnaiah, H.G. Nagendra, **M.S. Dileep**, S. Ananda, Prabhu Boselin, Journal of testing and Evaluation Vol. 49 No. 6 (2021) <https://doi.org/10.1520/JTE20200538>.
6. 'Mechanical, electrical, linear and nonlinear optical behavior of gamma irradiated thiourea doped lithium sulfate single crystals'. **M. S. Dileep**, Sindhu Tilak and H. M. Suresh Kumar Canadian Journal of Physics Vol. 99 No. 4 (2021). doi.org/10.1139/cjp-2019-0138.
7. 'Effect of Vitamin-C on Structural, Thermal and Optical properties of Lithium Sulfate monohydrate crystal'. **M. S. Dileep**, G. K. Prashanth and S R Boselin Prabhu, Journal of Materials Science: Materials in Electronics (Springer publication) Vol. 32 (2021) pp. 4798-4798. <https://doi.org/10.1007/s10854-020-05218-1>.
8. 'Evaluation of Structural, Optical and Dielectric characterization of Adipic Acid Crystals Grown in Aqueous Solution of L-Alanine'. **Dileep M S**, Prashanth G K and Boselin Prabhu, Journal of Materials Science: Materials in Electronics (Springer publication) Vol. 31 (2020) pp. 22893 - 22904. <https://doi.org/10.1007/s10854-020-04816-3>.
9. 'In vitro antibacterial, antioxidant and cytotoxicity response of CuO nanoparticles prepared by lemon juice and citric acid fueled solution combustion synthesis'. H.M. Sathyananda, P.A. Prashanth, B.M. Nagabhushana, G.M. Krishnaiah, H.G.

Nagendra, **M.S. Dileep**, G.K. Prashanth, International Journal of Advanced Science and Technology, Vol. 29 No. 8s (2020) pp. 3678-3690.

10. 'In vitro antibacterial and anticancer response of MgO nanoparticles prepared by solution combustion synthesis'. K. R. Mohana, P. A. Prashanth, B. M. Nagabhushana, G. M. Krishnaiah, H. G. Nagendra, **M. S. Dileep**, G. K. Prashanth, International Journal of Advanced Science and Technology. Vol. 29 No. 8s (2020) pp. 3668-3677.
11. 'Growth, characterization and influence of gamma irradiation on strontium chloride doped urea: An NLO crystal'. **M. S. Dileep**, Sindhu Tilak and H.M.Suresh Kumar, Materials Today: Proceedings (Elsevier publication) Vol. 27 part 1 (2020) pp. 6-11. doi.org/10.1016/j.matpr.2019.08.038.
12. 'Effect of Co-60 gamma radiation on Optical, Dielectric and Mechanical properties of Strontium L-Ascorbate Hexahydrate NLO crystal'. **M. S. Dileep** and H. M. Suresh Kumar Radiation Physics & Chemistry (Elsevier publication) Vol. 145 (2018) pp. 104-110. doi.org/10.1016/j.radphyschem.2017.12.021.

International Conference:

1. "Growth, Mechanical and Nonlinear Optical Studies of Iodine Doped L-Proline single crystals". In the International Conference on Advances in Materials, Ceramics & Engineering Sciences held during 17th – 18th January 2020 at Dayanada Sagar College of Engineering, Bangalore.
2. "Growth, characterization and influence of gamma irradiation on Strontium chloride doped urea: An NLO crystal" in the International Conference on Recent Advances in Materials and Manufacturing held during 12th – 14th September 2019 at KLE Engineering College, Belagavi.
3. "Effect of Gamma Irradiation on Optical properties of Urea Thiourea Strontium Chloride NLO Crystal" in the International Conference of Young Researchers on Advanced Materials held from 11th – 15th December 2016 at J N Tata Auditorium, IISc, Bangalore.
4. "Synthesis, Growth and Optical Studies of Novel Organometallic NLO crystal: Lithium Thiourea Sulfate in the International Conference on Smart Engineering Materials (ICSEM-2016) held from 20th – 22nd October 2016 at RV College of Engineering, Bangalore.
5. "Synthesis, Crystal growth, Structural, Spectral, Optical, Thermal, and Dielectric studies of new organic NLO material: Lithium Sulfate L-Ascorbate" in the International Conference on Science & Technology: Future Challenges and Solutions (STFCS-2016) held during 8th – 9th August 2016 at Manasagangotri, University of Mysore, Mysore.

6. "Crystal growth, Characterization and Optical, Dielectric effects induced by gamma irradiation on Strontium L-Ascorbate Hexahydrate - A promising organic NLO crystal" in the National conference on Emerging Materials (CEMAT-2016) held at IISc, Bangalore from 18th – 19th July 2016.

Text Books authored

1. 'Applications of Inorganic polymer in Textile wastewater Treatment' – Springer edition: Polymer technology in dye containing waste water. Vol 2, (2022). DOI:[10.1007/978-981-19-0886-6_10](https://doi.org/10.1007/978-981-19-0886-6_10)
2. Title: 'Introduction to nanotechnology'- Infinite learning solutions. (2024) ISBN: 978-81-19521-46-3
3. Title: 'Engineering Physics for CSE stream' - Infinite learning solutions. (2024) ISBN: 978-81-19521-83-8
4. Title: 'Engineering physics for CV stream' - Infinite learning solutions. (2024) ISBN: 978-81-19521-91-3
5. Title: 'Engineering Physics for EEE stream' - Infinite learning solutions. (2024) ISBN: 978-81-19521-66-1
6. Title: 'Engineering Physics for ME stream' - Infinite learning solutions. (2024) ISBN: 978-81-19521-98-2

Patent Published

1. Green assisted synthesis of Molybdenum oxide nanoparticles: Exploring biological and Electrochemical activities. Patent application no. 202341077514 A , Publication Date : 22/12/2023, Indian patent office journal No. 21
2. Bio-Fuel mediated combustion synthesis of ZnO nanoparticles utilizing aqueous leaf extract: Comprehensive characterization and assessment of antioxidant and anticancer activities. Patent application no. 202441004707 A, Publication Date : 09/02/2024, Indian patent office journal No. 06
3. Green technique for producing Zirconium oxide nanoparticles and their multifaceted applications. Patent application no. 202441042721 A, Publication Date : 07/06/2024, Indian patent office journal No. 23