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Education

Ph.D. in Physics

Jamia Millia Islamia, New Delhi, India

2023

M.Phil. in Physics

Bharathidasan University, Tamil Nadu, India

2014

M.Sc. in Physics

Jamia Millia Islamia, New Delhi, India

2012

B.Sc. in Physics

Farook College, Calicut University, Kerala, India

2010

Publications

- Rasweefali, M. K., S. Sabu, O. K. Sreedevi, **MK Raseel Rahman**, T. K. Shabeeba, K. K. Anoop, A. Sasidharan, and K. V. Sunooj. "Influence of chitosan properties and operating parameters on the flocculation efficiency and harvesting of microalgae (*Scenedesmus* sp.)." *International Journal of Biological Macromolecules*. 2024, 132894.
- Rasweefali, M.K., Sabu, S., Azad, K.M., **Rahman, MK Raseel.**, Sunooj, K.V., Sasidharan, A., Anoop, K.K. Influence of deproteinization and demineralization process sequences on the physicochemical and structural characteristics of chitin isolated from Deep-sea mud shrimp (*Solenocera hexatii*). *Advances in Biomarker Sciences and Technology*. **2022**, 4,12-27.
- **Rahman, MK Raseel.**, Riscob, B., Singh, B., Bhatt, R., Bhaumik, I., Ganesamoorthy, S., Vijayan, N., Karnal, A.K., Bdikin, I. and Nair, L. Nanoindentation and structural studies of MgO-doped congruent LiNbO₃ single crystals. *Materials Chemistry and Physics*. **2021**, 264, 124425.
- **Rahman, MK Raseel.**, Riscob, B., Bhatt, R., Bhaumik, I., Ganesamoorthy, S., Vijayan, N., Bhagavannarayana, G., Karnal, A.K. and Nair, L., 2021. Investigations on crystalline perfection, Raman spectra and optical characteristics of transition metal (Ru) co-doped Mg: LiNbO₃ single crystals. *ACS omega*. **2021**, 6, 10807-10815.

- Gupta, A., **Rahman, MK Raseel.**, Jauhar, R.O.M.U., Sivasubramani, V., Vijayan, N., Vinitha, G. and Nair, L. Growth of L-asparagine monohydrate and its structural, optical, mechanical, thermal and electrical studies for nonlinear optical applications. *Materials Research Express*. **2020**, 6, 125119.
- Gupta, A., **Rahman, MK Raseel.**, Asokan, K., Vijayan, N. and Nair, L. Structural, electrical and optical properties of gamma irradiated methyl para-hydroxy benzoate single crystals. *Radiation Effects and Defects in Solids*, **2019**, 174, 765-776.
- Gupta, A., **Rahman, MK Raseel.**, Vijayan, N., Nair, L. Structure, luminescence and photoconductivity studies of piperazine tartrate single crystals grown from aqueous solution. In *AIP Conference Proceedings*. **2019**, 2115, 030414.
- Rayjada, P.A., Vaghela, N.P., **Rahman, MK Raseel.**, Bhatnagar, M., Ranjan, M., Chauhan, N.L., Sircar, A., Manocha, L.M. and Raole, P.M. Er₂O₃ coating by reactive magnetron sputtering: Effect of oxygen supply and erbium pre-layer deposition. *Nuclear Materials and Energy*. **2016**, 9, 256-260.
- Bright, R., **Rahman, M.K Raseel.**, Shakir, M., Vijayan, N., Sajan, D., Abdullah, M.M., Bhagavannarayana, G. and Wahab, M.A. Growth, optical, mechanical, thermal and second harmonic generation (SHG) of N-methyl urea doped benzimidazole single crystal grown by VBT. *Journal of Materials Science and Engineering. A*. **2013**, 3, 12.

Conferences and Seminars

- Participated and presented a paper on Structural, Optical and Mechanical Analyses of Lithium Niobate Single Crystal in the International Conference on Recent Trends in Experimental Physics, 5,6,7 March 2024, Ansar Womens College Perumpilavu, Thrissur, Kerala,
- Participated and Presented a paper Structural and Optical Analyses of Ru-Co Doped Mg:LN Single crystals, in the International conference on Recent Trends In Material Science 4 January 2024, Jamal Mohammed College, Trichy, Tamil Nadu
- Participated and Presented a paper on The Effect of Mg doping on Growth, Structural, Raman, Optical and Nanoindentation Studies of Mg-doped LiNbO₃ Single crystals in the National Conference on Advanced Functional Materials , November 20-21, 2019 at Jamia Millia Islamia, New Delhi, India
- Participated and Presented a paper on Growth, Structural, Optical , Raman and Nanoindentation studies of Czochralski grown Mg-doped congruent LiNbO₃ Single crystals in the National Conference on Condensed Matter Physics and Applications, September 27-28, 2019, Manipal Institute of Technology , Karnataka, India
- Participated and Presented a Paper on Study of crystalline perfection, Raman, UV-VIS-NIR, Prism coupler analysis of Mg:Ru:LiNbO₃ crystals in the International Conference on Advanced Materials, March 6-7, 2019, at Jamia Millia Islamia, New Delhi, India
- Participated in the International Conference on Atomic, Molecular, Optical and Nano Physics with Applications, December 18-20, 2019, at Delhi Technological University, Delhi, India
- Participated in the 21st National Seminar on Crystal Growth and Applications, March 6-8, 2017, at National College(Autonomous), Tamilnadu, India

- Participated in the INUP Familiarisation Workshop on Nanofabrication Technologies, November 28-30, 2016, at IISc Bangalore, India
- Participated in the National Seminar on Photonics and Optical Materials, January 21, 2016, at Jamia Millia Islamia, New Delhi, India