

### **List of Journal publications:**

1. Structural and optical properties of beta irradiated YAlO<sub>3</sub> single crystals, M. Suganya, K. Ganesan, P. Vijayakumar, S. JAKathamani, Amirdha Sher Gill, O. Annalakshmi, S.K. Srivastava, R. M. Sarguna, S. Ganesamoorthy, Journal of Optical materials, 107, 110095, 2020.
2. Dose estimation and analysis of  $\gamma$ H2AX foci and gene expression in blood lymphocytes, Shangamithra Visweswaran, Santhosh Joseph, Jagadeesan Dhanasekaran, S. Paneerselvam, O. Annalakshmi, M.T. Jose, Venkatachalam Perumal, Journal of Muti Research Genetic Toxicology and Environmental Mutagenesis, 856, 503237, 2020.
3. Fiber optics assisted ammonia gas detection property of gamma irradiated magnesium tetraborate, R. Mohandoss, B. Renganathan, O. Annalakshmi, A.R. Ganesan. Sensors & Actuators: A. Journal of Physical, 285, 158-164, 2019.
4. <sup>18</sup>F-FDG PET/CT scanning: Biological effects on patients: Entrance surface dose, DNA damage, and chromosome aberrations in lymphocytes, Akshaya Prasad, Shangamithra Visweswaran, Karthik Kanagaraj, Venkateswarlu Raavi, M. Arunan, E. Venkatachalapathy, S. Paneerselvam, M.T. Jose, Annalakshmi Ozhimuthu, Venkatachalam Perumal, Journal of Mutat. Res. Gen. Tox. En. 838, 59–66, 2019.
5. Ceramic resistors as optically stimulated luminescent retrospective dosimeters, S. Jakathamani, O. Annalakshmi, S.N. Menon, Sonal Y. Kadam, M.T. Jose, B. Venkatraman, Journal of Radiation Physics and Chemistry, 165, 108436, 2019.
6. Thermoluminescent Properties of Rare Earth Doped Lithium Strontium Borate Phosphors, S. Jakathamani, O. Annalakshmi and M. T. Jose, AIP Conference Proceedings, 1951 (1), 030016, 2018.
7. Safa Abdul Syed Basheerudeen, Karthik Kanagaraj, M.T. Jose, Annalakshmi Ozhimuthu, S. Paneerselvam, Sudha Pattan, Santhosh Joseph, Venkateswarlu Raavi, Venkatachalam Perumal, Entrance surface dose and induced DNA damage in blood lymphocytes of patients exposed to low-dose and low-dose-rate X-irradiation during diagnostic and therapeutic interventional radiology procedures, Mutation Research/Genetic Toxicology and Environmental Mutagenesis, 818, 1–6, 2017.
8. O. Annalakshmi, M.T. Jose and B. Venkatraman, Dosimetric characteristics of manganese doped lithiumtriborate thermoluminescent material, Journal of Luminescence 179, 241–247. 2016.

9. Safa Abdul Syed Basheerudeen, Vinodhini Subramanian, Perumal Venkatachalam, Santosh Joseph, Paneer Selvam, MT Jose, O Annalakshmi, Estimation of absorbed dose and its biological effects in subjects undergoing neuro interventional radiological procedures, *Journal of Radiation and Cancer Research*, 7 (1), 17, 2016.
10. D Joseph Daniel, A Raja, U Madhusoodanan, O Annalakshmi, P Ramasamy, OSL studies of alkali fluoroperovskite single crystals for radiation dosimetry, *Journal of Optical Materials*, 58, (497 – 503), 2016.
11. Studies on pelletized lithium magnesium borate TL material for eye lens dosimetry, C. S.Charubala, O. Annalakshmi, S. Jakathamani, M .R. Sankaran, B.Venkatraman, M. T. Jose, *Journal of radiological protection*, (accepted for publication, In press, Available online, <https://doi.org/10.1088/1361-6498/aafb7c>).
12. R. Sangeetha Rani, A.R. Lakshmanan, V. Sivakumar, R. Venkatasamy, O. Annalakshmi, M.T. Jose, K.N. Marimuthu, Redox and charge transfer processes and luminescence in  $\text{CaSO}_4\text{:Zn,Mn}$ , *Journal of Radiation Measurements* 76 , 8-16, 2015.
13. D. Joseph Daniel, U. Madhusoodanan, O. Annalakshmi, M.T. Jose and P. Ramasamy, Thermoluminescence dosimetric characteristics of cubic fluoroperovskite single crystal  $\text{KMgF}_3\text{:Eu}^{2+}, \text{Ce}^{3+}$ , *Journal of Optical materials*, 45, 224-228, 2015.
14. Karthik Kanagaraj, Safa Abdul Syed Basheerudeen, Tamizh Selvan G., Jose M.T. Annalakshmi Ozhimuthu, Panneer Selvam S., Sudha Pattan and Venkatachalam Perumal, Assessment of dose and DNA damages in individuals exposed to low dose and low dose rate ionizing radiations during computed tomography imaging, *Journal of Mutation Research* 789-790, 1–6, 2015.
15. O. Annalakshmi, M.T. Jose, U. Madhusoodanan, J. Subramanian, B. Venkatraman G. Amarendra and A.B. Mandal, Thermoluminescence dosimetric characteristics of rare earth doped  $\text{ZnB}_2\text{O}_4$  phosphor, *Journal of Luminescence*, 146, 295–301, 2014.
16. O. Annalakshmi, M.T. Jose, J. Sridevi, B. Venkatraman G. Amarendra and A.B. Mandal, Kinetic parameters and TL mechanism in cadmium tetra borate phosphors, *Journal of luminescence*, 147, 284-289, 2014.
17. O. Annalakshmi, M.T. Jose, B.Venkatraman and G. Amarendra, Synthesis and luminescence characteristics of cadmium borate, *Journal of Materials Research Bulletin* 50, 494–498, 2014.
18. O. Annalakshmi, M.T. Jose, U. Madhusoodanan, J. Sridevi, B. Venkatraman, G. Amarendra and A.B. Mandal Thermoluminescence mechanism in rare-earth-doped magnesium tetra borate phosphors *Radiation Effects & Defects in Solids*, (2014) [http://dx.doi.org/ 10.1080/10420150.2014.918128](http://dx.doi.org/10.1080/10420150.2014.918128)

19. O. Annalakshmi, M.T. Jose, U. Madhusoodanan, J. Sridevi, B. Venkatraman G. Amarendra and A.B. Mandal, Radiation induced defect centers in manganese doped lithium tetra borate phosphor, Journal of Radiation Protection Dosimetry, 163(1), 2014.
20. D Joseph Daniel, U Madhusoodanan, O Annalakshmi, P Ramasamy, TL and PL studies on cubic fluoroperovskite single crystal  $\text{KMgF}_3\text{:Eu}^{3+}, \text{Ce}^{3+}$ , AIP Conference Proceedings, 1591 (1), 1228-1229, (2014).
21. D Joseph Daniel, O Annalakshmi, U Madusoodanan, M.T. Jose and P Ramasamy, Thermoluminescence characteristics and dosimetric aspects of fluoroperovskites ( $\text{NaMgF}_3\text{:Eu}^{2+}, \text{Ce}^{3+}$ , Journal of Rare Earths, 32 (6), 496-500, 2014.
22. O. Annalakshmi, M.T. Jose, U. Madhusoodanan, B. Venkatraman and G. Amarendra, Synthesis and thermoluminescence characterisation of  $\text{MgB}_4\text{O}_7\text{:Gd,Li}$ , Journal of Radiation Measurements, 59, 15-22, 2013.
23. O. Annalakshmi, M.T. Jose, U. Madhusoodanan, B. Venkatraman G. Amarendra, Kinetic Parametre of lithium tetra borate based TL materials Journal of Luminescence, 141, 60-66 , 2013.