<u>Last 5 years publication details</u>

- 1. Gunavathy K V, Tamilarasan K, Rangasami C, Arulanantham AMS, "Solution processed copper zinc tin sulfide thin films for thermoelectric device applications", Ceramics International, August 2020, https://doi.org/10.1016/j.ceramint.2020.07.338
- 2. Gunavathy K V, Tamilarasan K, Rangasami C, Arulanantham AMS, "Investigations on copper zinc tin sulfide thin films grown through nebulizer assisted spray pyrolysis technique", International Journal of Energy Research, May 2020, doi:10.1002/er.5451
- 3. K. V. Gunavathy, K. Tamilarasan, C. Rangasami, A.M.S.Arulanantham, "Effect of Solvent on the Characteristic Properties of Nebulizer Spray Pyrolyzed Cu2ZnSnS4 Absorber Thin Films for Photovoltaic Application", Thin Solid Films, Vol.697, 137841 March 2020.
- 4. Gunavathy K V, Parthibaraj V, Rangasami C, Tamilarasan K., "Effect of Spray Volume on the properties of Cu2ZnSnS4 Absorber Thin Film fabricated through Nebulizer Assisted Spray Pyrolysis Technique", Materials Research Express, Vol.6, No.10, P 106434, Sep 2019.
- 5. K. V. Gunavathy, K. Tamilarasan. Rangasami, A.M.S.Arulanantham.,"A review on growth optimization of spray pyrolyzed Cu2ZnSnS4 chalcogenide absorber thin film", International Research,1 July Journal of -39. 2019. Energy https://doi.org/10.1002/er.4693.
- 6. K. V. Gunavathy, K. Tamilarasan, C. Rangasami, V. Parthibaraj., "Influence of substrate temperature on the properties of nebulizer sprayed CZTS absorber thin film for photovoltaic applications", AIP Conference Proceedings of DAE-SSPS 2018, 2115, 030563 (1-4), July 2019.
- 7. Rangasami, C., "Crystal structure of Sb8Te3 and Sb10Te3, AIP conf. Proceedings of DAE-SSPS 2018, 2115, 030004 (1-4), July 2019.
- 8. Rangasami, C., "Vibrational modes of AgIn3Te5 and effect of laser irradiation", Vibrational Spectroscopy, 97, pp 66-73, Jan 2018.
- 9. Rangasami, C.,"Effect of laser irradiation on Ag4In12Sb56Te28", AIP conf. Proceedings of DAE-SSPS 2017, 942, 080031(1-4),
- 10.Santhiya, M., Pugazhvadivu, K.S, Tamilarasan, K., Rangasami, C., "Influence of sputtering power on the structure and electrical properties of Bi2Fe4O9 thin films", ActaMetallurgicaSinica (English Letters), vol 30, Issue 7, pp 650–658.

- 11.Rangasami, C., "Phase preference in some Ag-In-Sb-Te alloys", AIP conf. Proceedings of DAE-SSPS 2016, December 2016, 1832, 14008(1-3).
- 12.Gunavathy, K. V., Parthibaraj, V., Rangasami, C., Tamilarasan, K., "Prospects of alternate buffer layers for CZTS based thin films solar cells from Numerical Analysis A Review", South Asian Journal of Engineering and Technology, 2, pp. 88–96, March 2016.
- 13. Srinivasan, V., Rangasami, C., Kannan, J. C., "Synthesis, structure and optical properties of ZnO nanoparticles", Applied Engineering research, 10, pp.343-345, July 2015.
- 14.Parthibaraj, V., Tamilarasan, K., Pugazhvadivu, K S., Rangasami, C., "Growth and Characterization of Cu2ZnSnS4 Thin Film by RF-Magnetron Sputtering", International Journal of Innovative Research in Science, Engineering and Technology, 2, 670-675. February 2015.
- 15.Rangasami, C., "Non-equilibrium Phases Formed in Cu–In–Se– Te System Synthesized by Melt-Quench Method", ActaMetallurgicaSinica, English Letters, 28, 567-577, February 2015.