# 9. List of Publications

#### **Peer-Reviewed Journal Publication**

- <u>Asha Panghal</u>, Yogendra Kumar, P.K. Kulriya, P. M. Shirage, N. L. Singh "Atomic order-disorder engineering in the La<sub>2</sub>Zr<sub>2</sub>O<sub>7</sub> pyrochlore under low energy ion irradiation" Ceramics International, 47,(14), 2021, 20248-20259, https://doi.org/ 10.1016/j.ceramint.2021.04.032 (I.F.-4.527).
- <u>Asha Panghal</u>, Yogendra Kumar, P. K. Kulriya, N. L. Singh "Structural assessment and irradiation response of La<sub>2</sub>Zr<sub>2</sub>O<sub>7</sub> pyrochlore: Impact of irradiation temperature and ion fluence" Journal of Alloys and Compounds, 862 (2021)158556, https://doi.org/ 10.1016/j.jallcom.2020.158556 (I.F.-5.316).
- <u>Asha Panghal</u>, P. K. Kulriya, Yogendra Kumar, Fouran Singh, N. L. Singh "Investigations of atomic disorder and grain growth kinetics in polycrystalline La<sub>2</sub>Zr<sub>2</sub>O<sub>7</sub>" Applied Physics A (2019) 125:428, https://doi.org/10.1007/s00339-019-2720-8 (I.F.-2.584).
- <u>Asha Panghal</u>, Yogendra Kumar, N. L. Singh "Investigation of structural modifications of Gd<sub>2</sub>Zr<sub>2</sub>O<sub>7</sub> pyrochlore induced by swift heavy ions for nuclear waste immobilization (communicated in a peer-reviewed journal)
- 5. <u>Asha Panghal</u>, Yogendra Kumar, N. L. Singh "Role of structural ordering on the radiation response of Gd<sub>2</sub>Zr<sub>2</sub>O<sub>7</sub> pyrochlore" (communicated in a peer-reviewed journal)

## List of International and National Conferences/Schools/Workshops:

## (a) International:

- <u>Asha Panghal</u>, N. L. Singh, School on Accelerator Science and Technology, 16-27<sup>th</sup> May 2016, Inter-University Accelerator Centre, New Delhi, India.
- <u>Asha Panghal</u>, N. L. Singh, School on characterizations of materials, 04-09<sup>th</sup> September
  2017, Inter-University Accelerator Centre, New Delhi, India.
- <u>Asha Panghal</u> and N. L. Singh, International Conference on High Energy Radiation and Applications, 10-13<sup>th</sup> October 2017, The M. S. University of Baroda, Vadodara, Gujarat, India
- <u>Asha Panghal</u>, N. L. Singh, Joint ICTP-IAEA Workshop on Fundamentals of Vitrification and Vitreous Materials for Nuclear Waste Immobilization, 06-10<sup>th</sup>

November 2017, International Centre for Theoretical Physics, Trieste, Italy (Oral presentation).

- <u>Asha Panghal</u>, N. L. Singh, Joint ICTP-IAEA International School on Nuclear Waste Actinide Immobilization" 10-14<sup>th</sup> September 2018, International Centre for Theoretical Physics, UNESCO, Italy (Oral presentation).
- 6. <u>Asha Panghal</u> and N. L Singh, 5th International Conference on "Ion beams in materials engineering and characterization" (IBMEC) 9-12<sup>th</sup> October 2018, IUAC, New Delhi, India (Best Poster Award 1st prize)
- Asha Panghal and N. L Singh, Indo-French conference on "Radiation damage in Nuclear Materials" 18-20<sup>th</sup> February 2019, held at Amity University Noida and IUAC New Delhi, India.
- Asha Panghal, N. L. Singh, Joint ICTP-IAEA International School on Radioactive Waste Cementation, 16th Oct-25<sup>th</sup> Nov 2020, International Centre for Theoretical Physics, Trieste, Italy. (Virtual School\_Oral presentation).
- <u>Asha Panghal</u>, N. L Singh, International conference (online) on Ion Beams in Materials Engineering and Characterization (IBMEC-2020), 8-11<sup>th</sup>, December 2020, held at IUAC Delhi, India (Online mode).

#### (b) National:

- <u>Asha Panghal</u> and N. L. Singh, National Conference on Recent Trends in Materials Science, 24-25<sup>th</sup> March 2018, held at The M. S. University of Baroda, Gujarat, India.
- <u>Asha Panghal</u> and N. L. Singh, National conference on Nanoscience and Technologies in Digital India (NANOTCON), 27-28<sup>th</sup> April 2018, Shobhit Deemed University, Meerut, India.
- <u>Asha Panghal</u>, Y. Kumar, and N. L. Singh, National Conference on Recent Trends in Material Science and Technology, 7-9<sup>th</sup> December 2020, Indian Institute of Space Science and Technology, Kerala, India.