

PUBLICATIONS

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1. M. Ramakrishnan, Pramod Kumar Sharma, A. D. Roshan, A. S. Pisharady, Magesh Mari Raj, P. Chithira, A. John Arul & L. R. Bishnoi, Application of external flood probabilistic safety assessment methodology to Prototype Fast Breeder Reactor, *Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards*, 16:4, 782-797, DOI: 10.1080/17499518. 2022.2144636, 2022.
2. Ramesh Kumar, P.A. Jadhav, Suneel K. Gupta, A.J. Gaikwad, "Studies of thermal stratification stresses and its impact on fatigue design of NPP piping" *International Journal of Pressure Vessels and Piping*, 199 (2022) 104716.
3. Singh, Balbir Kumar, J. Christopher, Panneer Selvi, Jagannath Mishra, and GV Prasad Reddy. "Deformation behaviour and strain rate sensitivity of 304L SS at elevated temperatures." *Materials at High Temperatures* (2022): 1-11.
4. K.N.V. Adinarayana, P. Mangarjuna Rao and Seik Mansoor Ali (2022), "Numerical investigations on dynamic characteristics of series coupled single-phase natural circulation loops", *International Journal of Thermal Sciences*, 181, 107717.
5. Seik Mansoor Ali, Sankeerth Reddy and Sudhansu Singh (2022), "Effect of geometrical and operating parameters on performance of a rectangular two-phase natural circulation loop", *International Communications in Heat and Mass Transfer*, 135, 106126.
6. Arun Aravind, Srinivas C. V., Hegde M. N., Seshadri H., Mohapatra D. K., "Impact of land surface processes on the simulation of sea breeze circulation and tritium dispersion over the Kaiga complex terrain region near west coast of India using the Weather Research and Forecasting (WRF) model", *Atmospheric Environment: X*, 13, 100149. <https://doi.org/10.1016/j.aeaoa.2022.100149>, 2022.
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9. Manisha Singh B.S., Nabin Kumar Dhal, Manish Kumar, D.K. Mohapatra, H.Seshadri, Nirad Chandra Rout, Monalisha Nayak, "Phytoremediation of ¹³⁷Cs: Factors and consequences in the environment", *Radiation and Environmental Biophysics Journal*, DOI: <https://doi.org/10.1007/s00411-022-00985-3>, 2022
10. Ramakrishna P., Padhi R. K., Parida S.K., Mohapatra D.K, Hrudananda Jena and Panigrahi B.S., "Effect of U on the photoluminescence of Pr and structural properties of U/Pr doped and co-doped Li₂O-

- ZnO-SrO borophosphate glass” Journal of Optical Materials, Volume 134, Part A, 113121 <https://doi.org/10.1016/j.optmat.2022.113121>, December 2022.
11. Biswajit Samanta, P. Ramakrishna, S. Balakrishnan, Dr K Ananthasivan “Experimental determination of phase equilibria in the system Fe-Zr (0-100 at.% Zr) by using the “spot” technique, DSC and XRD” *Calphad* Volume 78, 102458, doi.org/10.1016/j.calphad.2022.102458 September 2022.
 12. R.K.Padhi, P. Ramakrishna. P.Vinodkumar, Annapurna Rout “Energy transfer dynamics and photoluminescence properties of sol-gel synthesized dense-packed $\text{Ca}_{3-(x+y)}\text{TbxSmyMgSi}_2\text{O}_8$ phosphor” Journal of Luminescence Volume 250, 119113, doi.org/10.1016/j.jlumin.2022.119113, October 2022,
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