

LIST OF PUBLICATIONS

➤ Articles in peer-reviewed Journals (Published / In press / Communicated) :

1. Nuclear Science and Engineering, 2012 (communicated)

P. M. Prajapati, H. Naik, S. Mukherjee, S. V. Suryanarayana, B. S. Shivashankar, R. Crasta, V. K. Mulik, K. C. Jagdeesan, S. V. Thakre and A. Goswami

Fission products yield in the neutron-induced fission of ^{232}Th with average energies of 5.42 MeV, 7.75 MeV and 10.09 MeV

2. Nuclear Science and Engineering 171, 78 (2012)

P. M. Prajapati, H. Naik, S. V. Suryanarayana, S. Mukherjee, B. S. Shivashankar, V.K. Mulik, K. C. Jagdeesan, S. V. Thakre, S. C. Sharma, S. Bisnoi, T. Patel, K. K. Rasheed, S. Ganesan and A. Goswami

Measurement of neutron-induced reaction cross-sections in zirconium isotopes at thermal, 2.45 MeV and 9.85 MeV energies

3. European Physical Journal A 48, 35 (2012)

P. M. Prajapati, H. Naik, S. V. Suryanarayana, S. Mukherjee, K. C. Jagadeesan, S. C. Sharma, S. V. Thakre, K. K. Rasheed, S. Ganesan and A. Goswami

Measurement of the neutron capture cross-sections of ^{232}Th at 5.9 MeV and 15.5 MeV

4. Journal of Radioanalytical and Nuclear Chemistry 292, 745 (2012)

B. S. Shivashankar, H. Naik, S.V. Suryanarayana, **P. M. Prajapati**, V. K. Mulik, K. C. Jagadeesan, S.V. Thakare, A. Goswami, S. Ganesan

Measurement of reaction cross-sections for $^{64}\text{Ni}(n, \gamma)^{65}\text{Ni}$ at $E_n = 0.0025$ eV and $^{58}\text{Ni}(n, p)^{58}\text{Co}$ at $E_n = 3.7$ MeV

5. Annals of Nuclear Energy, 2012 (In press)

Rita Crasta, H. Naik, S. V. Suryanarayana, B. S. Shivashankar, V. K. Mulik, **P.M. Prajapati**, Ganesh Sanjeev, S. C. Sharma, P. V. Bhagwat, S. Ganesan and A. Goswami

Measurement of the $^{232}\text{Th}(n, \gamma)^{233}\text{Th}$ and $^{232}\text{Th}(n, 2n)^{231}\text{Th}$ reaction cross- sections at neutron energies of 8.04 and 11.9 MeV

6. Journal of Radioanalytical and Nuclear Chemistry, 2012 (In press)

H. Naik, S. V. Suryanarayana, V. K. Mulik, P. M. Prajapati, B. S. Shivashankar, K. C. Jagadeesan, S. V. Thakre, S. D. Dhole, V. N. Bhoraskar and A. Goswami

Measurement of the neutron capture cross-section of ^{238}U using the neutron activation technique

7. Nuclear Science and Engineering, 2012 (communicated)

Rita Crasta, H. Naik, S. V. Suryanarayana, B. S. Shivashankar, V. K. Mulik, **P.M. Prajapati**, S. Ganesh, S. C. Sharma, P. V. Bhagwat and A. Goswami

Measurement of the $^{238}\text{U}(n, \gamma)^{239}\text{U}$ and $^{238}\text{U}(n, 2n)^{237}\text{U}$ reaction cross-sections using neutron activation technique at neutron energies of 8.04 and 11.9 MeV

8. European Physical Journal A 47, 100 (2011)

H. Naik, **P. M. Prajapati**, S.V. Suryanarayana, P. N. Pathak, D. R. Prabhu, V. Chavan, D. Raj, P. C. Kalsi, A. Goswami, S. Ganesan and V. K. Manchanda

$^{233}\text{Pa}(2n_{\text{th}}, f)$ cross-section determination using a fission track technique

9. European Physical Journal A 47, 51 (2011)

H. Naik, **P. M. Prajapati**, S.V. Suryanarayana, K. C. Jagadeesan, S.V. Thakare, D. Raj, V. K. Mulik, B. S. Shivashankar, B. K. Nayak, S.C. Sharma, S. Mukherjee, Sarbjit Singh, A. Goswami, S. Ganesan and V. K. Manchanda

Measurement of the neutron capture cross-section of ^{232}Th using the neutron activation technique

10. Journal of Radioanalytical and Nuclear Chemistry, 290, 367 (2011)

Rita Crasta, H. Naik, S. V. Suryanarayana, **P. M. Prajapati**, K. C. Jagadeesan, S. V. Thakare, S. Ganesh, V. T. Nimje, K. C. Mittal, A. Goswami

Photo-neutron cross-section of ^{100}Mo

11. Radiochimica Acta 99, 751 (2011)

H. Naik, V. L. Sant, S. V. Suryanarayana, **P. M. Prajapati** and T. Newton Nathaniel

Determination of trace impurities of Chlorine in zirconium-alloy matrices using neutron activation technique

➤ Articles presented in International Conferences:

1. **11th International Conference on Nucleus-Nucleus Collisions (NN2012), Hyatt Regency, San Antonio, Texas, USA, May 27-June 1, 2012**

P. M. Prajapati, H. Naik, S. Mukherjee, S. V. Suryanarayana, K. C. Jagdeesan, S. V. Thakre, S. Ganesan and A. Goswami

Mass distribution in the fast neutron-induced fission of ^{232}Th

2. **3rd International Nuclear Chemistry Congress (3rd - INCC), Citta Del Mare, Sicily, Italy, 18 - 23 September, 2011**

P. M. Prajapati, H. Naik, S. V. Suryanarayana, S. Mukherjee, K. C. Jagadeesan, S. C. Sharma, S. V. Thakre, K. K. Rasheed and S. Ganesan

Neutron capture cross-section measurement of ^{232}Th using activation technique

3. **The 1st Asian Nuclear Reaction Database Development Workshop, Hokkaido University, Sapporo, Japan, 25 – 29 October, 2010**

P. M. Prajapati

Measurement of neutron-induced reaction cross-sections of structural materials and compilation of Indian experimental nuclear data in IAEA-EXFOR database