

Journal Papers

1. **Measurement of $^{197}\text{Au}(n,\gamma)^{198\text{g}}\text{Au}$ reaction cross-section at the neutron energies of 1.12, 2.12, 3.12 and 4.12 MeV**

Vibha Vansola, Reetuparna Ghosh, Sylvia Badwar, Bioletty Mary Lawriniang, Arjun Gopalakrishna, Haladhara Naik, Yeshwant Naik, Nilesh Subhash Tawade, Suresh Chand Sharma, Jignesh Pravinchandra Bhatt, Shri Krishna Gupta, Shankar Sarode, Surjit Mukherjee, NandLal Singh, Pitambar Singh, Ashok Goswami
Radio chimica Acta 103(12), 817 (2015).

2. **Study of (n,γ) reaction cross-section for ^{55}Mn at energies 1.12, 2.12, 3.12 and 4.12 MeV**

Vibha Vansola, Surjit Mukherjee, Haladhara Naik*, Saraswatula Venkata Suryanarayana, Reetuparna Ghosh, Sylvia Badwar, Bioletty Mary Lawriniang, Yerraguntla Santhi Sheela
Radio chimica Acta 104(11), 749 (2016).

3. **Measurement of ^{232}Th and ^{238}U neutron capture cross-sections in the energy range 5 to 17 MeV**

S. Mukherjee, **Vibha Vansola**, Siddharth Parashari, R. Makwana, N. L. Singh, S. V. Suryanarayana, S. C. Sharma, B. K. Nayak, H. Naik
Applied Radiation and Isotopes, 143, 72 (2018).

4. **Determination of $^{110}\text{Cd}(n,\gamma)^{111\text{m}}\text{Cd}$ and $^{111}\text{Cd}(n,n_0)^{111\text{m}}\text{Cd}$ reaction cross-sections at the neutron energies of 1.12–4.12 MeV**

Reetuparna Ghosh, Sylvia Badwar, Bioletty Mary Lawriniang, **Vibha Vansola**, Haladhara Naik, Yeshwant Naik, Saraswatula Venkata Suryanarayana, Nilesh Subhash Tawade, Sapna Padmakumar, Suresh Chand Sharma, Shri Krishna Gupta, Betylda Jyrwa, Srinivasan Ganesan, Pitamber Singh, Ashok Goswami
Journal of Radio analytical and Nuclear Chemistry 307(2), 1481 (2015).

5. $^{151}\text{Eu}(n,\gamma)^{152\text{m}}\text{Eu}$ reaction cross-section measurement at the neutron energies of 1.12, 2.12, 3.12 and 4.12 MeV

Sylvia Badwar, Reetuparna Ghosh, Bioletty Mary Lawriniang, **Vibha Vansola**, Arjun Gopalakrishna, Haladhara Naik, Yeshwant Naik, Saraswatula Venkata Suryanarayana, Sanjay Yeshwant Salunkhe, Arun Agarwal, Shailaja Ware, Anil Kumar Gupta, Betylda Jyrwa, Srinivasan Ganesan, Pitambar Singh, Ashok Goswami
Journal of Radio analytical and Nuclear Chemistry 307(2), 1385 (2015).

6. Measurement of the $^{115}\text{In}(n,\gamma)^{116\text{m}}\text{In}$ Reaction Cross-section at the Neutron Energies of 1.12, 2.12, 3.12 and 4.12 MeV

Bioletty Mary Lawriniang, Sylvia Badwar, Reetuparna Ghosh and Betylda Jyrwa, **Vibha Vansola**, Haladhara Naik and Ashok Goswami, Yeshwant Naik and Chandra Shekhar Datrik, Amit Kumar Gupta, Vijay Pal Singh, Sudir Shibaji Pol, Nagaraju Balabenkata Subramanyam, Arun Agarwal and Pitambar Singh
Journal of the Korean Physical Society 67(3), 441 (2015).

7. Measurement of formation cross-section of ^{99}Mo from the $^{98}\text{Mo}(n,\gamma)$ and $^{100}\text{Mo}(n,2n)$ reactions

Sylvia Badwara, Reetuparna Ghosha, Bioletty M. Lawriniang, **Vibha Vansola**, Y.S. Sheela, Haladhara Naik, Yeshwant Naik, Saraswatula V. Suryanarayana, Betylda Jyrwaa, Srinivasan Ganesan
Applied Radiations and Isotopes 129, 117 (2017).

8. Measurements of the cross sections of the $^{186}\text{W}(n,\gamma)^{187}\text{W}$, $^{182}\text{W}(n,p)^{182}\text{Ta}$, $^{154}\text{Gd}(n,2n)^{153}\text{Gd}$, and $^{160}\text{Gd}(n,2n)^{159}\text{Gd}$ reactions at neutron energies of 5 to 17 MeV

Rajnikant Makwana, S. Mukherjee,*, P. Mishra, H. Naik, N.L. Singh, M. Mehta, K. Katovsky, S.V. Suryanarayana, **V. Vansola**, Y. Shanthisheela, M. Karkera, R. Acharya, S. Khirwadkar
Physical Review C 96, 024608 (2017).

9. Measurement of cross-sections for the $^{93}\text{Nb}(p,n)^{93\text{m}}\text{Mo}$ and $^{93}\text{Nb}(p,pn)^{92\text{m}}\text{Nb}$ reactions up to $\sim 20\text{MeV}$ energy

B. Lawriniang, R. Ghosh, S. Badwar, V. Vansola, Y. Shanthi Sheela, S. V. Suryanarayana, H. Naik, Y. P. Naik, B. Jyrwa

Nuclear Physics A 973, 79 (2018).

10. Investigation of (n,p), (n,2n) reaction cross sections for Sn isotopes for fusion reactor applications

Siddharth Parashari, S. Mukherjee, Vibha Vansola, Rajnikant Makwana, N. L. Singh, Bhawna Pandey

Applied Radiation and Isotopes 133, 31 (2018).

11. Measurement of $^{232}\text{Th}(n,\gamma)$ reaction cross-sections in the neutron energy range 11-19 MeV.

Siddharth Parashari, S. Mukherjee, A. P. Singh, Vibha Vansola, H. Naik, B. K. Nayak, Rajnikant Makwana, S. V. Suryanarayana, N. L. Singh, Mayur Mehta, Y. S. Sheela, M. karkera, R. D. Chauhan, S. C. Sharma

Physical Review C 98, 014625 (2018).