

## **List of Publications**

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## A. Publications in International Journals :

1. Susanta Lahiri, **Dalia Nayak**, Maitreyee Nandy and N. R. Das, "Radiochemical Preconcentration of Noble and Platinum Group Metals for Nuclear Activation Analysis", *Radiochim. Acta*, **73** (1996) 35-37.\*
2. Susanta Lahiri, **Dalia Nayak**, Maitreyee Nandy and N. R. Das, "Separation of Carrier Free Lutetium Produced in Proton Activated Ytterbium with HDEHP" *Appl. Radiat. Isot.*, **49** (1998) 911-913.
3. **Dalia Nayak** and Susanta Lahiri, "Extraction and Separation of  $^{141}\text{Ce}$  and  $^{153}\text{Gd}$  with HDEHP", *J. Radioanl. Nucl. Chem.*, **240** (1999) 75-77.
4. **Dalia Nayak**, Susanta Lahiri and N. R. Das, "Synergistic Extraction of Neodymium and Carrier Free Promethium by The Mixture of HDEHP and PC88A", *J. Radioanl. Nucl. Chem.*, **240** (1999) 555-560.
5. Susanta Lahiri, **Dalia Nayak**, S. K. Das, A. Ramaswami, S. B. Manohar and N. R. Das, "Separation of Carrier Free  $^{152,153}\text{Dy}$  and  $^{151-153}\text{Tb}$  from  $^{16}\text{O}^{7+}$  Irradiated  $\text{CeO}_2$  by Liquid-Liquid Extraction", *J. Radioanl. Nucl. Chem.*, **241** (1999) (in press).
6. **Dalia Nayak**, Susanta Lahiri, S. K. Das, A. Ramaswami, S. B. Manohar and N. R. Das "Separation of Carrier-Free Gadolinium Produced in an 80 MeV  $^{12}\text{C}^{6+}$  Irradiated  $\text{CeO}_2$  Target", *Appl. Radiat. Isot.*, **51** (1999) 1-7.

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\* Not included in the Thesis

7. Susanta Lahiri, **Dalia Nayak**, S. K. Das, A. Ramaswami, S. B. Manohor and N. R. Das, "Separation of Carrier Free Dysprosium and Terbium Isotopes from  $^{12}\text{C}^{6+}$  Irradiated  $\text{Nd}_2\text{O}_3$ ", *Appl. Radiat. Isot.*, **51** (1999) 27-32.
8. **Dalia Nayak**, Susanta Lahiri, A. Ramaswami, S. B. Manohor and N. R. Das, "Production and Separation of Carrier-Free  $^{146,147}\text{Eu}$  from  $^{12}\text{C}^{6+}$  Irradiated  $\text{La}_2\text{O}_3$  Matrix", *Appl. Radiat. Isot.*, **51** (1999) 261-268.
9. **Dalia Nayak** and Susanta Lahiri, "Application of Radioisotopes in The Field of Nuclear Medicine Part I: Lanthanide Series Elements", (revised version communicated).
10. **Dalia Nayak** and Susanta Lahiri, "Separation of the Carrier Free Radioisotopes of Lanthanide Series Elements", *Solvent Extr. Ion Exch.*, **17** (1999) (in press).
11. **Dalia Nayak**, Susanta Lahiri, A. Ramaswami, S. B. Manohor and N. R. Das, "Separation of Carrier Free  $^{151,152}\text{Tb}$  Produced in  $^{16}\text{O}^{6+}$  Irradiated Lanthanum Oxide Matrix", *Appl. Radiat. Isot.* (in press).
12. Susanta Lahiri, Krishnendu Mukhopadhyay and **Dalia Nayak**, "Experimental Simulation on Separation of Heavy Ion Induced Carrier Free Europium Isotopes from Bulk Quantity of Caesium", *J. Radioanal. Nucl. Chem.*, **242** (1999) (in press).
13. Susanta Lahiri, **Dalia Nayak**, A. Ramaswami and S. B. Manohor "Separation of Carrier Free Ytterbium and Thulium Produced in 80 MeV  $^{12}\text{C}^{6+}$  Irradiated Gd-foil Target by Liquid Liquid Extraction with HDEHP", *Appl. Radiat. Isot.*, (revised version communicated).
14. **Dalia Nayak**, Susanta Lahiri, A. Ramaswami and S. B. Manohor, "Separation of Carrier Free  $^{163,165}\text{Tm}$  Produced in 80 MeV  $^{16}\text{O}$  Irradiated  $\text{Eu}_2\text{O}_3$  Target Matrix", *Radiochim. Acta*, (revised version communicated).

B. List of Papers Presented/ Accepted in Symposia / Conferences:

1. Susanta Lahiri, **Dalia Nayak**, Maitreyee Nandy and N. R. Das, "Preconcentration of Noble and Platinum Group Metals for Charged Particle Activation Analysis", 14th Conference of Indian Council of Chemists, Institute of Science, Bombay, 28-30 December, 1995.
2. Susanta Lahiri, **Dalia Nayak** and N. R. Das, "Studies on LLX of Carrier Free  $^{169}\text{Lu}$  Produced in Proton Activated Ytterbium with HDEHP", Nuclear and Radiochemistry Symposium, NUCAR'97, Saha Institute of Nuclear Physics, Calcutta, 21-24 January, 1997.
3. Anjana Mandal, Krishnendu Mukhopadhyay, Banani Mukhopadhyay, **Dalia Nayak** and Susanta Lahiri, "Effect of n-Octanol on The Extraction Behavior of Trace Cobalt in TOA-HCl system", Nuclear and Radiochemistry Symposium, NUCAR'97, Saha Institute of Nuclear Physics, Calcutta, 21-24 January, 1997.
4. Susanta Lahiri, **Dalia Nayak** and N. R. Das, "Studies on Liquid Liquid Extraction of Neodymium and Promethium with HDEHP", 34th Annual Convention of Chemists, University of Delhi, 17-20 December, 1997.
5. Susanta Lahiri, **Dalia Nayak** and N. R. Das, "Studies of the Extraction behavior of  $^{169}\text{Yb}$  From Proton Irradiated Thulium Target", 16th Conference of Indian Council of Chemists, Mangalore University, Mangalagangothri, 29-31st December, 1997.

6. Susanta Lahiri, **Dalia Nayak** and N. R. Das, "Radiochemical Studies on the Cyclotron Produced Carrier Free Promethium From Neodymium Oxide Target", Conference on Physics and Technology of Accelerators, Saha Institute of Nuclear Physics, Calcutta, 11-13 February, 1998.
7. **Dalia Nayak** and Susanta Lahiri, "Excitation Function Calculation of Heavy Ion Induced Reaction for Production of Rare Earth Radioisotopes", 35th Annual Convention of Chemists, Karnatak University, Dharwad, 4-7 November, 1998.
8. Susanta Lahiri, **Dalia Nayak** and N. R. Das, "Trace Scale Separation of  $^{153}\text{Gd}$  from Macro Quantity of Cerium", 35th Annual Convention of Chemists, Karnatak University, Dharwad, 4-7 November, 1998.
9. Krishnendu Mukhopadhyay, **Dalia Nayak** and Susanta Lahiri, "Separation of Trace level  $^{152,154}\text{Eu}$  from Macro Quantity of Caesium", Nuclear and Radiochemistry Symposium, NUCAR'99, Bhabha Atomic Research Centre, Mumbai, 19-22 January, 1999.
10. **Dalia Nayak**, Susanta Lahiri, S. K. Das, A. Ramaswami, S. B. Manohar and N. R. Das, "Separation of Carrier Free  $^{152,153}\text{Dy}$  and  $^{151-153}\text{Tb}$  produced in  $\text{O}^{7+}$  Irradiated  $\text{CeO}_2$  Target Matrix", Nuclear and Radiochemistry Symposium, NUCAR'99, Bhabha Atomic Research Centre, Mumbai, 19-22 January, 1999.
11. Susanta Lahiri and **Dalia Nayak**, "Extraction and Separation of  $^{153}\text{Gd}$  and  $^{169}\text{Yb}$  with HDEHP", Nuclear and Radiochemistry Symposium, NUCAR'99, Bhabha Atomic Research Centre, Mumbai, 19-22 January, 1999.