



Dr. Samir Kumar Maji
M.Sc / Ph.D.
Assistant Professor
Department of Chemistry
Ramananda College, Bishnupur
Bankura, West Bengal, India
samirmaji@rediffmail.com



AREAS OF INTEREST/SPECIALISATION

- Nuclear and Analytical Chemistry
- Production and Separation of Short-lived Radionuclides
- Synthesis of Nanoparticles and its Applications

ACADEMIC ACHIEVEMENTS

- Qualified joint CSIR-UGC Junior Research Fellowship (JRF) and Eligibility for Lectureship – National Eligibility Test (NET) held on 30th December 2001. **Secured place among the top 20% awardees in Chemical Sciences**
- Ph.D. (2007), The University of Burdwan, Burdwan, West Bengal, India

RESEARCH EXPERIENCE

From	To	Name and Address of Company / Organization	Position held
18.11.2002	19.09.2006	The University of Burdwan and Saha Institute of Nuclear Physics, Kolkata.	Research Fellow

ACADEMIC EXPERIENCE

- **More than 14 years teaching experience in *Chemistry* at the B. Sc. (Honours and pass level).**

ADMINISTRATIVE EXPERIENCE

- Head of the Department
- Member of UGC, Examination, IQAC etc. Sub-committees

PUBLICATIONS

(List of Journals/Proceedings/Chapter in Books)

2020

Pinaki Mandal and **Samir Maji** “Colorimetric Sensing of Hg^{+2} and Fe^{+3} ions in aqueous solution using greensynthesised silver nanoparticles” *International journal of Life science and Pherma Research*, 10(2) (2020) 76-82

2018

1. **Samir Maji** and Soma Gorai “Synthetic food preservatives and their impacts on human Health” *International Journal of Green and Herbal Chemistry*, 7A(3) (2018), 629-639
2. Santu Ghosh, **Samir Maji**, Avijit Mondal “ Study of selective sensing of Hg^{2+} ions by green synthesized silver nanoparticles suppressing the effect of Fe^{3+} ions” *Colloids and Surfaces A* **555** (2018) 324-331

2014

1. **Samir Maji**, Shyamal Kanti Mallick, Sukalyan Basu “Biosorption of Cesium-137 by Mucilaginous seeds of *Ocimum gratissimum* Linn.” *International Journal of Basic and Applied Sciences* **3** (2014) 139-141

2007

1. **Samir Maji**, S. Basu, Susanta Lahiri “Studies of multielemental uptake on amide incorporated Amberlite IRC-50 using tracer packet techniques” *Indian J. Chem.* **46A** (2007) 97-100
2. **Samir Maji**, Susanta Lahiri, “Production and Separation of No-carrier-added ^{123}I Produced by Heavy Ion Activation of Natural Antimony Oxide.” *Radiochimica Acta* **95** (2007) 133-136
3. **Samir Maji** and S. Basu, “Separation of $^{137\text{m}}\text{Ba}$ from its parent ^{137}Cs from an equilibrium mixture using amide incorporated Amberlite IRC-50” *Radiochimica Acta* **95** (2007) 183-186
4. Dipjyoti Chakraborty, **Samir Maji**, Abhijit Bandyopadhyay, Sukalyan Basu “Biosorption of Cesium-137 and Strontium-90 by Mucilaginous Seed of *Ocimum basilicum*” *Bioresource Technology* **98** (2007) 2949–2952
5. **Samir Maji**, S. Basu, A. Ramaswami, Susanta Lahiri “Application of tracer packet technique for multielemental uptake studies on the inorganic ion exchanger ceric vanadate”, *J. Radioanal. Nucl. Chem.* **271** (2007) 391-396

2006

1. **Samir Maji**, Susanta Lahiri, Birgit Wierczinski, Gunther Korschinek, “Separation of samarium and neodymium: a prerequisite for getting signals from nuclear synthesis” *Analyst* **131** (2006) 1332-1334

2. **Samir Maji**, Susanta Lahiri, Birgit Wierczinski, Gunther Korschinek, "Separation of Trace Level Hafnium from bulk Tungsten: A step forward to solve astronomical puzzle" *Analytical Chemistry* **78(7)** (2006) 2302-2305

2005

1. Susanta Lahiri, Kamalika Roy, Soumya Bhattacharya, **Samir Maji**, S. Basu "Separation of ^{134}Cs and ^{152}Eu using Inorganic Ion Exchangers, Zirconium Vanadate and Ceric Vanadate", *Appl. Radiat. Isot.* **63(3)** (2005) 293-297.
2. **Samir Maji**, S. Basu, Susanta Lahiri "Synthesis of a novel ion exchanger Ceric vanadate and its application of ^{90}Sr - ^{90}Y pair", *Indian J. Chem.* **44A** (2005) 1838.
3. **Samir Maji**, S. Basu, Susanta Lahiri, "Alternative method of ^{111}In by heavy ion activation of silver" *Appl. Radiat. Isot.* **63(4)** (2005) 513-517.

2004

1. Susanta Lahiri, Dalia Nayak, **Samir Maji**, "Production of Tracer Packet of Heavier Rare Earth Elements", *J. Radioanal. Nucl. Chem.*, **260** (2004) 369-372.

Author of Books

1. **Practical Chemistry (For general Course)**
First Edition-May, 2013
Dr. Ajay Kumar Manna and Dr. Samir Kumar Maji
2. **Practical Inorganic Chemistry**
First Edition- 2020
Samir kr. Maji
ISBN: 9788194698205, BOOKS & ALLIED (P) LTD.

PRESENTATION

2017

1. **Samir Maji** and Avijit Mondal, "The green synthesis of silver nanoparticles for dual mode of sensing" International Science Seminar, 10th October 2017, Raj College, Burdwan, West Bengal India.

2016

1. **Samir Maji**, "The role of Chemistry in sustainable Development" Chemistry Today- Nanoworld to Macroworld, 22-23 December, 2016, Sonamukhi College, Bankura.
2. **Samir Maji**, "Green Chemistry for Sustainable Development" Sustainable Development and Quality Education, 23-24 September 2016, Nikhil Banga Sikshan Mahavidyalaya, Bishnupur, Bankura

2015

1. **Samir Maji** “Separation of Er from Tb, Dy and Ho using inorganic ion exchanger Ceric Vanadate” Recent Trends in Chemical Sciences, 16th July 2015, Bankura Sammilani College, Bankura
2. **Samir Maji** “Studies on the Heavier rare Earth elements uptake by amide incorporated Amberlite IRC-50” Recent Development of green chemistry, 22 March 2015, Gushkara Mahavidyalaya, Burdwan
3. **Samir Maji** “Biosorption of strontium-90 by mucilaginous seeds of *Ocimum gatissum*” The Biggest Challenge of Green Chemistry: to use its rule in practice, 8-9 October 2015, A.K. P. C . College, Bengai, Hoogly

2007

1. M. Mandal, **Samir Maji**, S. Basu “Determination of gallium by displacement substoichiometric extraction with indium oxinate in chloroform” Nuclear and Radiochemistry Symposium (NUCAR-2007) February 14-17, Vadodara, India.

2006

1. **Samir Maji** and S.Basu, “Separation of ^{137}mBa from its parent ^{137}Cs from an equilibrium mixture using amide incorporated Amberlite IRC-50” Application of Radiotracers in Chemical, Environmental and Biological Sciences (ARCEBS 06) January 23-27 2006, Saha Institute of Nuclear Physics, Kolkata, India. (**Best Poster Presented Award**)
2. **Samir Maji**, Susanta Lahiri, “Production and Separation of No-carrier-added ^{123}I Produced by Heavy Ion Activation of Natural Antimony Oxide.” Application of Radiotracers in Chemical, Environmental and Biological Sciences (ARCEBS 06) January 23-27 2006, Saha Institute of Nuclear Physics, Kolkata, India. (**Best Poster Presented Award**)

2005

1. Dipjyoti Chakraborty, **Samir Maji**, Abhijit Bandyopadhyay, Sukalyan Basu “Biosorption of Cesium-137 and Strontium-90 by Mucilaginous Seed of *Ocimum basilicum* and its remediation potential” 2nd International Congress of Chemistry and Environment-ICCE-2005 , Dec 24–26, 2005, Indore, India
2. Christof Vockenhuber, Andreas Bergmaier, Max Bichler, Thomas Faestermann, Susanta Lahiri, Gunther Korschinek, Klaus Knie, Walter Kutschera, **Samir Maji**, Georg Rugel, Peter Steier, Anton Wallner, “Development of Isobar Separation for ^{182}Hf AMS Measurements of Astrophysical Interest” The 10th International Conference on Accelerator Mass Spectrometry (AMS-10), September 5-10, 2005, Berkeley, California, USA
3. Susanta Lahiri, **Samir Maji**, Kamalika Roy, Soumya Bhattacharya, S. Basu “Separation of ^{134}Cs and ^{152}Eu using inorganic ion exchangers, zirconium vanadate and ceric vanadate” NUCAR-2005, March 15-18th , 2005, Amritsar, India.
4. **Samir Maji**, U. Saha S. Basu, A Ramaswami, Susanta Lahiri “Alternative method of ^{111}In by heavy ion activation of silver” NUCAR-2005, March 15-18th, 2005, Amritsar, India.

2004

- 1. Samir Maji** and S. Basu, "Physicochemical Techniques for Identification of New Inorganic Compounds." 5th Chittagong Conference on Biomathematics, Biophysics and Biostatistics, January 9-13, 2004, Research Centre for Mathematical and Physical Sciences, Chittagong, Bangladesh
- 2. Samir Maji** and S. Basu, "Synthesis of A Novel Ion Exchanger Ceric Vanadate and Its Application of ^{90}Sr - ^{90}Y Pair", Discussion Meeting on Application of Radiotracers in Chemical, Environmental and Biological Sciences (ARCEBS 04) April 15-16 2004, Saha Institute of Nuclear Physics, Kolkata, India

International Patent

Susanta Lahiri, **Samir Maji**, Dalia Nayak, "Separation of no-carrier-added thallium radionuclides from no-carrier-added lead and mercury radionuclides by dialysis" publication No. WO/2007/077571 dated 12.07.2007

PERSONAL DETAILS IN BRIEF

Date of Birth : 07.01.1978
Marital Status : Married
Nationality : Indian
Current Designation : Assistant Professor
Permanent Address : Pranabanandapally, Kenduadihi, Bankura
Email : samirmaji@rediffmail.com
Phone Number :