Curriculum Vitae

Abhijit Maiti

Personal Details:

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Education:

- Doctor of Philosophy, Chemical Engineering 2010 Evaluated by Research
  Indian Institute of Technology, Kharagpur, India.
- Master of Technology, Chemical Technology 2004 1st class
  Calcutta University, Calcutta, India
- Bachelor of Technology, Chemical Technology 1998 1st class
  Calcutta University, Calcutta, India
- Bachelor of Science, Honours (Chemistry) 1995 1st class
  Calcutta University, Calcutta, India

Thesis of PhD dissertation: "Removal of Arsenic form Water using Raw and Treated Laterite as Adsorbent"

Industrial Experiences:

- Worked as an Assistant Chemical Engineer at Kesoram Rayon Limited (Nayasarai, Hooghly, West Bengal, India) in the production section. Duration: February 2000 to July 2002.
- Worked as a Quality Control and Product Development Chemist at Bharat Marzarine Limited. Duration: June 1998 to January 2000.

Research Specialization:

Physicochemical Process of Water Treatment and Preparation of Adsorbents

Patent:

- **Abhijit Maiti,** Sirshendu De, Jayanta Kumar Basu and Sunando DasGupta, Indian patent pending, Title: "Modified laterite arsenic adsorbent for removing arsenic species and its manner of manufacture" Application Number: 614/KOL/2009.

Research Publication:

Journal:

1. **Abhijit Maiti,** Sunando DasGupta, Jayanta Kumar Basu and Sirshendu De, Adsorption of arsenite using natural laterite as adsorbent, ***Separation Purification. Technology,*** *55* **(2007)** 350-359.

2. **Abhijit Maiti,** Sunando DasGupta, Jayanta Kumar Basu and Sirshendu De, Batch and column study: Adsorption of arsenate using untreated laterite as adsorbent, ***Industrial & Engineering Chemistry Research,*** 47 **(2008)** 1620-1629.
3. **Abhijit Maiti,** Himanshu Sharma, Jyanta Kumar Basu and Sirshendu De, Modeling of arsenic adsorption kinetic of synthetic and contaminated groundwater on natural laterite, ***Journal of Hazardous Materials,*** 172 **(2009)** 928-934.
4. **Abhijit Maiti,** Jayanta Kumar Basu and Sirshendu De, Development of a treated laterite for arsenic adsorption: Effects of treatment parameters, ***Industrial & Engineering Chemistry Research,*** 49 **(2010)** 4873-4886.
5. **Abhijit Maiti,** Jayanta Kumar Basu and Sirshendu De, Desorption kinetics and leaching study of arsenic from arsenite/arsenate-loaded natural laterte, International ***Journal of Environmental Technology and Management,*** 12 **(2010)** 294-304.
6. **Abhijit Maiti,** Jayanta Kumar Basu and Sirshendu De, Experimental and kinetic modeling of As(V) and As(III) adsorption on treated laterite using synthetic and contaminated groundwater: Effects of phosphate, silicate and carbonate ions. ***Chemical Engineering Journal,*** **(2010**), **article in Press**, doi:10.1016/j.cej.2010.01.031.
7. **Abhijit Maiti,** Jayanta Kumar Basu and Sirshendu De, Removal of arsenic from synthetic and natural groundwater using acid activated laterite, ***Environmental Progress and Energy Sustainability***, 29(4), **(2010)** 457-470.
8. **Abhijit Maiti,** Vaibhav Agarwal, Jayanta Kumar Basu and Sirshendu De, Removal of As(V) using iron oxide impregnated carbon prepared from tamarind hull, **Journal of *Environmental Science and Health, Part A:,*** 45(10),**(2010)** 1203-1212.
9. **Abhijit Maiti,** Jayanta Kumar Basu and Sirshendu De**,** Chemical treated laterite as promising fluoride adsorbent for aqueous system and kinetic modeling. ***Desalination,*** 265, **(2011**) 28-36.
10. Mihir Kumar Purkait, **Abhijit Maiti,** Sunando DasGupta and Sirshendu De, Removal of congo red using activated carbon and its regeneration. ***Journal of Hazardous Materials,*** 145 **(2007)** 287-295.
11. **Abhijit Maiti,** Jayanta Kumar Basu and Sirshendu De, Fe-Al nano-oxide prepared by sol-gel method using precursor of HCl digested liquid fraction of laterite: Arsenic adsorption performance, ***International Journal of Nanoscience*****, (2010)**, **accepted.**
12. **Abhijit Maiti** and Sirshendu De, Effect of chemical constituents of raw laterite on arsenic adsorption performance of treated laterite, under preparation (2010) ***Industrial & Engineering Chemistry Research***.

Conferences:

1. **Abhijit Maiti**, Vaibhav Agarwal, Jyanta Kumar Basu, Biswajit Sarkar, Sunando DasGupta and Sirshendu De, Removal of arsenate from aqueous system by iron oxide impregnated activated carbon prepared from tamarind shell, ***CHEMCON***, Kolkata, WestBengal, India, **2007.**
2. **Abhijit Maiti,** Jayanta Kumar Basu and Sirshendu De, Synthesis and arsenic-scavenging performance of a mesoporous adsorbent from laterite, ***International Conference on Separation Processes,*** Institute of Technology, Banaras Hindu University, Chemical Engineering Department, India, **2009.**
3. **Abhijit Maiti,** Jayanta Kumar Basu and Sirshendu De, Oxide nanoparticles of iron and aluminium prepared by sol-gel method from liquid fraction of HCl treated laterite: Arsenic adsorption performance, ***International Conference Nanoscience & Technology,*** Indian Institute of Mumbai, Mumbai, India, **2010.**
4. **Abhijit Maiti,** Barun Kumar Thakur, Jayanta Kumar Basu and Sirshendu De, Arsenic removal on treated laterite from contaminated groundwater, ***International Congress on "Arsenic in geosphere and human Diseases" Taiwan AS2010,*** Taiwan, **2010.**