

# SIRAJUL HOQUE, Ph.D.

## Professor

Department of Soil, Water and Environment  
(Former Department of Soil Science)  
University of Dhaka, Dhaka -1000, Bangladesh  
Tel: 880-2 9661920-73 ext: 7483, (Off): 9038224 (Res.)  
Email: sirajswed@du.ac.bd

---

### Research Interest:

Soil Chemistry and Soil Microbiology  
Soil organic matter dynamics  
Soil amendments and nutrient management  
Phosphorus dynamics in soil and water systems  
Water Chemistry

### Academic Qualification:

Ph. D. in Soil Science, Aberdeen University, Scotland, UK, 1987  
M.Sc. in Soil Science, 1<sup>st</sup> class 1<sup>st</sup>, Dhaka University, Bangladesh, 1975 (held in 1977).  
B.Sc. (Hons.) in Soil Science, 1<sup>st</sup> class 1<sup>st</sup>, Dhaka University, Bangladesh, 1974 (held in 1976)  
Higher Secondary Certificate, 1<sup>st</sup> division, studied in Govt. Jagannath College, Dhaka, 1971 (held in 1972)  
Secondary School Certificate, 1<sup>st</sup> division, studied in Dhaka Farm Islamia Model High School (renamed as Rajdhani High School), Manik Mia Avenue, Dhaka, 1969.

### Date of Birth:

January 6, 1954

### Professional Experience:

Professor, Dept. Soil, Water and Environment, Dhaka University since Nov 2000  
Professor, Dept. of Soil Science, Dhaka University, Dec, 1997 to Nov 2000  
Associate Professor, Dept. Soil Science, Dhaka University, May 1993 to Dec 1997  
Assistant Professor, Dept. Soil Science, Dhaka University, March 1988 to May 1993  
Lecturer, Dept. Soil Science, Dhaka University, Dec 1980 to March 1988  
Scientific Officer: Agricultural Chemistry Section, Soil Science Division, Bangladesh Agricultural Research Institute, Gazipur, Dhaka, March 1979 to Nov 1980.

### Graduate Supervisor/Committee Member:

Supervised 10 Ph. D. Students and 2 M. Phil student; and supervising 4 Ph. D students.  
Worked as supervisor of Ninety (90) M. Sc. Students.

**Research/Consultancy:**

Principle Investigator of a project sponsored by US AID through Bangladesh Agriculture Research Council under PL-480 title III Program

Principal Investigator of the project titled “Impact of Arsenic contaminated groundwater on agriculture and food-chain”. A joint research project of the Dept. Soil, Water and Environment, Dhaka University and Bangladesh Agricultural Development Corporation

Co-Investigator of projects sponsored by Bangladesh Agricultural Research Council, and The Science and Technology Division of The Ministry of Education, Government of the People's Republic of Bangladesh;

Consultancy: Part time consultant as an Agronomist in the project entitled “Evaluation of the Grameen Krishi Foundation' of Bangladesh Institute of Development Studies”. November 1994 to June 1995.

Consultancy: National Baseline Study Food Security – Soil Fertility Component. The European Union’s Food Security 2006 Programme For Bangladesh, funded by the European Union and implemented by Soil Resource Development Institute, Ministry of Agriculture, Bangladesh.

**Professional Society Membership:**

Bangladesh Association for the Advancement of Science (BAAS)

Bangladesh Society of Microbiologists

Bangla Academy

Soil Science Society of Bangladesh

Asiatic Society of Bangladesh

Dhaka University Alumni Association

**Professional Development Activities:**

Attended/presented paper at the International Botanical Conference on Plant Resources in the Changing Environment, Organized by Bangladesh Botanical Society, 2003

Attended 2nd International Conference on Bangladesh Environment (ICBEN-2002), Dhaka, Bangladesh, 2002

Attended Joint International Conference on Agricultural Engineering and Technology, Dhaka Bangladesh, 1997

Attended Inter-Congress Conference of Commission IV of International Soil Science Society, Dhaka, Bangladesh, 1992

Attended/presented research paper at the 4th International Symposium on Microbial Ecology, Ljubljana, Yugoslavia, 1986

Attended International Symposium on Climate Change and Food Security in South Asia, Dhaka, Bangladesh, August 25 – 30, 2008.

Attended Golden Jubilee Celebration Seminar on “Advances in Agricultural Research Towards Food Security and Environmental Sustenance” held in Palli Siksha Bhavana (Institute of Agriculture), Sriniketan, West Bengal, India. September 1-3, 2012.

Attended a considerable number of conferences, workshops and seminars inside the country.

### **Publications:**

One hundred sixty (160) scientific articles published in the journals of home and abroad.

### **List of publications**

Sultana S, Paul SC, Parveen S, Alam S, Rahman N, Jannat B, Hoque S, Rahman MT, Karim MM. Isolation and identification of salt-tolerant plant growth promoting rhizobacteria and its application for rice cultivation under salt stress. Canadian Journal of Microbiology (Accepted on 30 October 2019)

Pratyasha Chakma, Sumaiya Chowdhury, Latiful Bari and Sirajul Hoque. 2019. A feasible way of degrading malathion pesticide under laboratory condition using phosphate solubilizing bacteria 7: 1-12.

K.Q. Kibria, S.Hoque and M.Z. Hossain. 2018. Water stress regulates nutrient availability and uptake by rice plant in two paddy rice soils. Rajshahi University Journal of Environmental Science 7: 11 – 17.

Sharmin S., S.H.Rahman, M.N. Naser and S. Hoque. 2018. Macro benthic fauna in relation to limnological Variables in a migratory bird visiting lake at Jahangirnagar University, Bangladesh. Journal of Biodiversity Conservation and Bioresource Management 4(2):99 – 110.

P. Chowdhury, S. Hoque, A Parvin and M. Moniruzzaman. 2018. Speciation of inorganic phosphorus in some bench mark soils of Bangladesh. Bangladesh Journal of Scientific and Industrial Research 53(1): 7 – 12.

Md. Atallah, Sirajul Hoque, Parveen Rashid and Ashfaque Ahmed. 2018. Spatial variation and contamination levels of different metals in soils of Bangladesh Sundarbans. Indiab Forester 144(5): 412 – 423.

Alam, A.K.M.R., Hossain, A.B.M.E., Hoque, S. and Chowdhury, D.A. 2018. Heavy Metals in Wetland Soil of Greater Dhaka District, Bangladesh. Pollution 4(1): 129 – 141.

A.K.M. Rashidul Alam and Sirajul Hoque. 2017. Phytoremediation of industrial wastewater by culturing aquatic macrophytes *Trapa natans* L. and *Sahinac cucullat* Roxb. Jahangirnagar University Journal of Biological Sciences 6(2): 19 – 27.

Nahid Sultana, A.K.M. Rashidul Alam and Sirajul Hoque. 2017. Some physical and chemical characteristics of soil in selected wetlands at Savar, Bangladesh. Jahangirnagar University Environmental Bulletin 6:13 – 26.

Maimuna Qazi, S. Hoque and A. H. Khan. 2017. Synthesis and characterization of silver nanoparticles. Bangladesh Journal of Soil Science 39 (1): 43 - 52.

Md. Abdul Mottalib, Azmira Sultana, Md. Mizanur Rahman, Gulam Zilani, Sumaiya Chowdhury and Sirajul Hoque. 2017. Investigation onto soil salinity of Hazaribagh tanning Industrial Area, Dhaka, Bangladesh. IOSR Journal of Environmental Science, Technology and Food Technology 11(2): 44 - 49. eISSN: 2319 - 2402, p-ISSN 2319 -2399. www.iosrjournals.org

Umma Farhana Khushi, Sirajul Hoque and S.Z.K.M. Shamsad. 2017. Assessing heavy metal accumulation in soils of tea growing areas and their transfer to leaves in Bangladesh. Canadian Journal of Pure and Applied Sciences 11(2): 4271 - 4275.

Mihir Lal Saha, Md. Atiq Mahbub, Tahsun Khan, M. Moniruzzaman and Sirajul Hoque. 2017. bacterial and chemical pollution level of the river Turag, Gazipur Bangladesh. The Dhaka University Journal of Biological Sciences. 26(1): 1 - 11.

A. Parvin and S. Hoque. 2016. Removal of Pb and Zn from industrial effluent using humic acid. Bangladesh J. Sci. Ind. Res. 51(4), 279-284.

Ashiqun Nabi, A.K.M. Rashidul Alam and Sirajul Hoque. 2016. Treatment of wastewater with free floating macrophyte - *Echhornia crassipes* L. Jahangirnagar University Environmental Bulletin 5 : 00 - 00.

Mohammad Z. Hossain, Md. M. Hasan, Jannatul Ferdous and Sirajul Hoque. 2016. Growth responses of lentil (*Lens culinaris* Medix) varieties to the properties of selected soils in Bangladesh. *Sociedad de Ciencias de Galicia* 16:18 - 29.

Tanjila Jesmin and Sirajul Hoque. 2016. Bacterial Tolerance to Chromium and Cadmium in Different Textural Soils. *International Journal of Current Microbiology and Applied Sciences* 9(5) :369-379. (ISSN: 2319-7706 )

Ferdouse Zaman Tanu, Azizul Hakim, and Sirajul Hoque.2016. Bacterial tolerance and reduction of Chromium (VI) by *Bacillus cereus* isolate PGBx4. *American Journal of Environmental Protection* 5(2): 35 - 38 doi: 10.11648/j.ajep.20160502.13.

Santonu Kumar Sanyal, Taslin Jahan Mou, Ram prasad Chakreborty, Sirajul Hoque, M. Anwar Hossain and Munawar Sultana. 2016. Diversity of arsenite oxidase gene and arsenotrophic bacteria in arsenic affected Bangladesh soils. *Open Access ABM Expr.* 6:21 DOI 10.1186/s13568-016- 0193-0.

Mohammad Zabeed Hossain, Mohammad Ashraful Alam Khan, Md. Abul Kashem and Sirajul Hoque. 2016. Plant community composition in relation to soil physico-chemical properties of the Ratargul Swamp forest, Bangladesh. *Dhaka University Journal of Biological Sciences* 25(1): 1 - 8).

A.K. Saha, S.H. Rahman and S. Hoque. 2015. Requirement of lime in tea soils to improve tea growth and yield. *Tea Journal of Bangladesh* 44: 10 - 18.

M.A.Kashem, A.Ahmed, S.Hoque and M.Z. Hossain. 2015. Effects of land-use change on the properties of top soil of deciduous sal forest in Bangladesh. *Journal of Mountain Research* 1: 5 - 12.

Rekha Rani, Sirajul Hoque, Syed Hafizur Rakman and Mohammad Moniruzzaman. 2015. Fate of metal contaminants in soil added through industrial waste water along the bank of river Bangshi. *Bangladesh Journal of Soil Science* 37(2): 13 - 25.

Banozir Shabnam, S. Hoque, M. Moniruzzaman and A.H. Khan. 2015. Growth and nutrient uptake by Indian Spinach ( *Basella alba* L.) as influenced by tea residues and used tea leaves. *Bangladesh Journal of Soil Science* 37(2):35-45.

Khandoker Qudrata Kibria, Sirajul Hoque, Md. Sanaul Islam and Mohammad Zaber Hossain. 2015. Effect of single and multiple water stress on agronomic parameters and grain nutrient content of rice. *International Journal of Sustainable Agricultural Technology* 11(8): 07 - 11.

Mohammad Z. Hossain, Suchita N. Jannat, Nur Jahan, Mohammad Moniruzzaman and Sirajul Hoque. 2015. Forest and agricultural soils differ in affecting growth of groundnut plants (*Arachis hypogaea* L.) *Sociedad de Ciencias de Galicia* No 14-15: 22 - 29.

Banozir Shabnam, S.Hoque, M. Moniruzzaman, and A.H. Khan. 2015. Effect of tea residues and used tea leaves on the growth of and nutrient uptake by red amaranth (*Amaranthus tricolor* L.) Bangladesh Journal of Soil Science 37(1): 13-23.

Towhida Rashid, Sirajul Hoque and Sharmin Akter.2015. Pollution in the Bay of Bengal: Impact on Marine Ecosystem. Open Journal of Marine Science 5: 55 – 63.

Azizul Hakim , Sirajul Hoque, and Shah Mohammad Ullah. 2014. Decolorization of Methyl Red by *Staphylococcus saprophyticus* strain AUCASVE3 Isolated from Textile Effluents. Environment Asia 7(1): 32-38.

Atisha H Kanta, S.Z.K.M. Samshad and Sirajul Hoque 2014. Soil Pollution in the Agro-Industrial Areas of the Northern Part of Dhaka City. National University Journal of Science 1(2): 75 - 84.

Towhida Rashid, Sirajul Hoque and Firoza Akter. 2013. Ocean Acidification in the Bay of Bengal. Open Access Scientific Reports. <http://dx.doi.org/10.4172/scientificreports699>.

M.A. Hadi, M. Mahfuzur Rahman and Sirajul Hoque. 2013. Edaphic properties of the soils of Tilagarh Eco-park in Sylhet, Bangladesh. Physiological Ecology and Environmental Science 4 (1 &2): 37 – 43.

Tania Sultana, Mohammed Zabed Hossain, Ashfaque Ahmed and Sirajul Hoque. 2013. Decomposition and nutrient release of Sal leaf litter as influenced by legume leaf litter of the Sal Forests. Dhaka University Journal of Biological Sciences 22(2): 183 – 186. Short Communication

Mohammad Zabed Hossain, Tania Sultana, Ashfaque Ahmed and Sirajul Hoque. 2013. Influence of leguminous trees on soil nitrogen and phosphorus status of the Sal Forest. Dhaka University Journal of Biological Sciences 22(2): 179 -182. Short Communication

Md. Abdul Karim, Rehana Nasrin Happy, Mehedi-Al-Masum and Sirajul Hoque. 2013. Bioremediation for improvement of polluted water by *Bacillus licheniformis* BW-37. Jahangirnagar University Journal of Biological Sciences 2(1) : 143-150.

A.Hakim, S. Hoque, and S.M. Ullah. 2013 (June). Characterization and identification of methyl orange decolorizing bacteria from textile effluent. Advances in Agriculture, Sciences and Engineering Research 3(6): 918- 923. (ISSN: 2276- 6723).

Kamrun Nahar and Sirajul Hoque. 2013. A morphological and physiological study of *Jatropha curcus* Linn. Propagated from seeds in Bangladesh. Middle-East Journal of Scientific Research 13(8) : 1115 – 1118.

F. Z. Tanu and S. Hoque. 2013. Comparison of bacterial population in industrial and agricultural soils. International Journal of Current Microbiology and applied Sciences 2(4): 155-165.

Md. Abdul Karim, Rehana Nasrin Happy, Md. Saifur Rasul, and Sirajul Hoque.2012. Microbiological Pollution Level and Seasonal Variations in Physicochemical Parameters of the River Buriganga, Dhaka. Bangladesh Journal of Microbiology 29(1): 11 -15.

F. Z. Tanu and S. Hoque. 2012. Bacterial tolerance to heavy metal contents present in contaminated and uncontaminated soils. Bangladesh Journals of Microbiology 29(2): 56-61.

A.Hakim, S.Hoque and S. M. Ullah. 2012. Isolation, characterization, and identification of bacterial population from textile and tannery effluents of Bangladesh. Bangladesh Journals of Microbiology 29(2): 84 – 88.

Golam Ahmed, Hossain M. Anwar, Didarul A. Chowdhury, Jasim U Ahmmed, M. Abdullah Khan and Sirajul Hoque. 2012. Pollution status of trace metals in ground water due to industrial activities in and around Dhaka Export Processing Zone, Bangladesh. *International Journal of Economical and Environmental Geology* 3(1): 43-52.

Md. Abdul Karim, Nazneen Akhter and Sirajul Hoque, 2012. Bacterial status and pollution level in the sediment of Gulshan Lake, Dhaka. *Journal of Asiatic Society of Bangladesh* 38(2): 155 – 161.

Md. Abdul Karim, Nazneen Akhter and Sirajul Hoque, 2012. Bacterial status and pollution level in the water of Gulshan Lake, Dhaka. *Bangladesh Journal of Zoology* 40(2): 165 – 173.

Mohammad Z. Afsar, Sirajul Hoque, and K.T. Osman. 2012. Phosphate desorption characteristics of some representative soils of Bangladesh: Effect of exchangeable anions, water molecules and solution to soil ratio. *Open Journal Of Soil Science* 2: 234 – 241.

Mihir Lal Saha, Meherun Nessa, Mahbubur Rahman Khan, Mohammad Nurul Islam and Sirajul Hoque. 2012. Bacteriological and physicochemical water quality of four ponds of Dhaka Metropolis. *Bangladesh Journal of Botany* 41(1): 55-60.

Mohammad Z. Afsar, Sirajul Hoque and K.T. Osman. 2012. A comparison of the Langmuir, Freundlich and Temkin Equations to Describe Phosphate Sorption Characteristics of Some Representative Soils of Bangladesh. *International Journal of Soil Science*, p 1-9 [ISSN 1816-4978/DOI: 10.3923/ijss. 2012].

A.M.M. Golam Adam, Nargis Jahan and Sirajul Hoque. 2012. Effects of naphthalene acetic acid on nutrient uptake by two varieties of rice (*Oryza sativa* L.). *Dhaka University Journal of Biological Sciences* 21(1): 9 – 15.

Mihir Lal Saha, Ashraful Alam, Mahbubar Rahman Khan and Sirajul Hoque. 2012. Bacteriological, physical and chemical properties of the Pagla sewage treatment plant's water. *Dhaka University Journal of Biological Sciences* 21(1): 1 -7.

Sanjida Binte Zuha, Mihir Lal Saha, Tabassum Mumtaz, Sirajul Hoque and Mahbubar Rahman Khan. 2011. Mineral composition and microbial association of a local condiment – ‘Beat Laban’ (Black salt). *International Journal of Microbiological Research* 2(1): 93-100.

Mohammad E. Hossain, Sirajul Hoque and Khan T. Osman. 2011. Phosphate sorption in some representative soils of Bangladesh. *Archives of Agronomy and Soil Science* p 1-8, [ DOI: 10.1080/03650340.2011.557370. I First article.

Naila Islam, S.Z.K.M. Shamsad, and Sirajul Hoque. 2011(Accepted on October 7, 2012) Environmental impacts of agro-industrial activities on the surface water systems in the south-eastern outskirts of Dhaka City. *Dhaka University Journal of Earth and Environmental Sciences* 2: 63-69.

Mihir Lal Saha, Tahmina Bari, Mahbubar Rahman Khan and Sirajul Hoque. 2011. Bacteriological and physicochemical properties of the Gulshan lake, Dhaka. *Bangladesh Journal of Botany* 40(2): 105 – 111.

Md. Monjurul Alam, Syed Alauddin, Ahmad, A. H. Khan and Sirajul Hoque. 2011. Nutrient uptake, harvest and addition by crops under different cropping sequences. *Dhaka University Journal Biological Sciences* 20(1) : 81 – 90.

M.T. Islam, S. Hoque, T.H. Khan and A.H. Khan. 2010. Rubber growing soils as assessed by some selected physical properties. *Bangladesh Journal of Soil Science* 36: 17 -26.

M.N. Pramanik, M.S. Jahan and S.Hoque. 2010. Extraction and characterization of earthworm cast and adjoining soil humus at low temperature. *Bangladesh Journal of Soil Science* 36: 53 -57.

Mahbubar Rahman Khan, Mihir Lal Saha, Nahmina Begum, Mohammad Nurul Islam and Sirajul Hoque. 2010. Isolation and characterization of Bacteria from rusted iron materials. *Bangladesh Journal of Botany* 39(2) : 185 – 191.

M.M. Alam, S.A. Ahmad, A.H. Khan and S. Hoque. 2010. Impact of jute cultivation on crop production. *Bangladesh Journal of Soil Science* 36: 1 – 7.

Ashfaque Ahmed, Sirajul Hoque, Mikael Ohlson, Md Abdus Salam Akanda and Md Golam Moula. 2010. Phytoplankton standing crop and its diversity in the Buragauranga river estuary in relation to chemical environment. *Bangladesh Journal of Botany* 39(2): 143 – 151.

Halima Momtaz, A. K. M. Rashidul Alam, M. Shahidul Islam and Sirajul Hoque. 2010. Impact of textile effluents on *Pistia stratiotes* L. and *Ludwigia adscendens* L. using hydroponic culture. *Bangladesh Journal of Scientific and Industrial Research* 45(1) : 9 – 16.

Halima Momtaz, A.K.M. Rashidul Alam and Sirajul Hoque 2010. A comparative study of phytoplankton diversity in relation to water quality of migratory birds visiting and non-visiting wetlands of Savar. *Bangladesh Journal of Environmental Research* 8 : 31 – 38.

Ashfaque Ahmed, Mikael Ohlson, Sirajul Hoque and Md. Golam Moula. 2010. Chemical composition of leaves of a mangrove tree (*Sonneratia apetala* Buch.-Ham.) and their correlation with some soil variables. *Bangladesh Journal of Botany* 39(1): 61-69.

Ashfaque Ahmed, Mikael Ohlson, Sirajul Hoque and Golam Moula. 2010. Edaphic conditions of different chars under different hydrological regimes in the coastal zone of Bangladesh. *The Dhaka University Journal of Biological Sciences* 19(1): 27 – 40.

Farzana Ahmed Mohuya, Rejuan Hossain Bhuiyan and Sirajul Hoque. 2010. Heavy metal contamination in Gulshan- Baridhara lake, Dhaka. *The Dhaka University Journal of Biological Sciences* 19(1): 53 – 61.

Mohammed Zabed Hossain, Mihir Lal Saha, Chaman Binta Aziz and Sirajul Hoque. 2010. Effects of deforestation on the properties of soil of Sal forests in Bangladesh. *The Dhaka University Journal of Biological Sciences* 19(1): 63 – 72.

Md. Monjurul Alam, Syed Alauddin Ahmad, Md. Akhter Hossain and Sirajul Hoque. 2009. Effect of jute cultivation on phosphorus balance in soil. *Bangladesh Journal of Jute Fiber Research* 29(1-2) : 103- 114.

Md. Monjurul Alam, Syed Alauddin Ahmad, A.H. Khan and Sirajul Hoque. 2009. Response of cropping patterns to nitrogen balance in soil. *Bangladesh Journal of Jute Fiber Research* 29(1-2): 83 – 89.

Mihir Lal Saha, Mahbubar Rahman Khan, Mohammad Ali and Sirajul Hoque. 2009. Bacterial load and chemical pollution level of the river Buriganga, Dhaka, Bangladesh. *Bangladesh Journal of Botany* 38(1): 87 – 91.

Shakibul Islam, A.K.M. Rashidul Alam, Fauzia Hafiz, Sahana Parveen and Sirajul Hoque. 2009. Wastewater quality of pharmaceutical industries of Tongi, Gazipur. *Bangladesh Journal of Life Science* 21(1): 77 – 85.

Md. Monirul Islam, Md. Kawser Ahmed, Md. Abdus Shahid, Sirajul Hoque and Dilshad Islam. 2009. Determination of land cover changes and suitable shrimp farming area using remote sensing and GIS in Southern Bangladesh. *International Journal of Ecology and Development* 12(9) : 28 – 41.

Fouzia Akhter Khan, A. K. M. Rashidul Alam, and Sirajul Hoque. 2008. Phytoplankton density in relation to water quality of the wetland of Dhaka Export Processing Zone. *Bangladesh Journal of Life Science* 20(2) : 45 – 51.



M.S.I. Bhuiyan, M.N. Islam, S. Hoque, M. Issak and S. Chowdhury. 2008. Effect of vermicompost and NPK on the growth, yield and nutrient uptake of wheat. *Bangladesh Journal of Agriculture and Environment* 4(2): 77 – 83.

Sadia Afrin Jame, A. K. M. Rasidul Alam, A.N. M. Fakhruddin, Harun-Or- Rashid, and Sirajul Hoque. 2008. Monitoring of Water Quality at Raw, Treated and Consumers' Level of Saidabad Water Treatment Plant, Dhaka. *Bangladesh Journal of Environmental Research* 6 : 75 – 83.

M. S. I. Bhuiyan, M. N. Islam, and S. Hoque. 2008. Effect of vermicompost and NPK fertilizers on the potassium and sulphur contents in wheat and the post-harvest soil. *Journal of Sher-e- Bangla Agricultural University* 2(1) : 68 – 73.

M. S. I. Bhuiyan, M.N. Islam, S. Hoque, G.N.C. Sutradhar and M.M.H. Bhuiyan. 2007. Effect of vermicompost and NPK on nitrogen and phosphorus concentrations in wheat and post harvest soil. *Journal of Agricultural Sciences and Technology* 8(2) : 6 –10.

M. Motiur Rahman, Sirajul Hoque and Zahed UM Khan. 2007. Effect of *Azospirillum* inoculation on nodulation, chlorophyll content, NPK content, protein content and nitrogen uptake of lentil. *Bangladesh Journal of Microbiology* 24(2): 105 -108.

M. Motiur Rahman, S. Mubassara, Sirajul Hoque and Zahed UM Khan. 2007. Effect of *Azospirillum* inoculation on growth and yield of lentil. *Bangladesh Journal of Microbiology* 24(1): 30 -33.

M. Motiur Rahman, Sirajul Hoque and Zahed U. M. Khan 2007. Nitrogen fixation and respiratory activity of *Azospirillum* spp. Isolated from saline habitat of Bangladesh. *Bangladesh Journal of Life Science* 19(2) : 55 – 60.

Rahman, M. M., L. Haoliang, Y. Chongling and S. Hoque. 2007. Heavy-metal hyper-accumulation in plants and metal distribution in soils on tannery and dyeing industries polluted area in Bangladesh. *Academic Open Internet Journal* 21: 4360.

A. K. M. Rashidul Alam, A.B.M.Enayet Hossain and S. Hoque. 2007. Chemical characteristics of soil of urban and rural wetlands water of Narshingdi District. *Journal of Environmental Sciences (Dhaka)* 5: 1 – 7.

A. K. M. Rashidul Alam, A.B.M.Enayet Hossain and S. Hoque. 2006. Load of coliform bacteria in arsenic contaminated groundwater of Narsingdi District. *Journal of Environmental Sciences (Dhaka)* 4: 11 – 18.

M.N. Islam, S. Hoque and A. Islam. 2006. Effect of P x S interaction on nutrient concentrations and yields of wheat, rice and mungbean. *Journal of Indian Society of Soil science* 54(1) : 86 – 91.

M. Motiur Rahman, S. Mubassara, Sirajul Hoque and Zahed UM Khan. 2006. Aerobic heterotrophic bacteria and *Azospirillum* in certain saline soils of Bangladesh. *Bangladesh Journal of Life Science* 18(1): 105 – 110.

A.K.M. Rashidul Alam, A.B.M. Enayet Hossain and Sirajul Hoque. December 2006. "Physiochemical characteristics of Urban and Rural Wetlands Water of Narshingdi District." *Jahangirnagar University Journal of Science* 29 : 85 -94.

Md. Monirul Islam, Md. Kawser Ahmed, Md. Abdus Shahid, Sirajul Hoque and Dilshad Islam. 2005. Prawn, fish and paddy culture in shrimp farms in southwestern Bangladesh. *The Journal of Noami* 22(2): 61 – 73.

M. Motiur Rahman, S. Mubassara, S. Hoque and Zahed UM Khan. 2006. Effect of some environmental factors on the growth of *Azospirillum* species isolated from saline soils of Satkhira District, Bangladesh. *Bangladesh Journal of Microbiology* 23(2): 145 -148.

M.S. Amin and S. Hoque. 2005. Influence of wheat growth on the transformation of inorganic phosphorus in Dhamrai soil. *Bangladesh Journal of Soil Science* 31 (1 & 2): 21 – 27.

Md. Touhidul Islam, Sirajul Hoque, Tofazzal Hussain Khan and Akhter Hossain Khan. 2005. Nutrient contents of soils and rubber leaves of Madhupur and Karnajhora rubber plantations. *Bangladesh Journal of Soil Science* 31(1 & 2) : 1 – 11.

M. N. Islam, S. Hoque and A. Islam. 2005. Interactive effects of Phosphorus and Zinc in wheat, rice and mungbean. *Journal of Indian Society of Soil Science*. 53 (2): 221 -227.

M. N. Islam, S. Hoque and A. Islam. 2004. Phosphorus and iron interaction in relation to nutrient concentrations in plants and yields of wheat, rice and mungbean. *Journal of Agricultural Sciences and Technology* 5(1&2): 56 -61.

Rashidul Alam, A.B.M. Enayet Hossain, Abdul Aziz and Sirajul Hoque. 2004. Phytoplankton seasonality of some freshwater wetlands of greater Dhaka district in relation to water chemistry. *Jahangirnagar University Journal of Science*, 27: 241 – 249.

M. Nazrul Islam and S.Hoque. 2001-2003. Effects of different levels of phosphorus on the growth and inorganic nutrient contents in wheat (*Triticum aestivum* L.). *Bangladesh Journal of Soil Science* 27 –29:61-69.

M.N. Islam, S. Hoque and A. Islam. 2001-2003. Interaction of iron and zinc in wheat, rice and mungbean. *Bangladesh Journal of Soil Science*, 27- 29 (1 & 2): 23 – 30.

Umma Salma Jhumur, S. A. Khan, Sirajul Hoque, M.R. Nabi and Md. Abdus Salam. 2003. Comparative analysis of water quality in relation to chemical index (CI) in a lotic and a lentic ecosystem. *Bangladesh Journal of Zoology* 31(2): 227 – 235.

M. H. Rahman, A. Tanaka and S. Hoque. 2003. Long-Term Effects of Tillage on Physicochemical Properties of Modified Andisol of Northeast Honshu Island. *Communications in Soil Science and Plant Analysis* 34(11 & 12): 1743 - 1757.

A.K.M. Rashidul Alam, A.B.M. Enayet Hossain, S. Hoque and A. Aziz. 2003. Seasonal changes of phytoplankton flora of some freshwater wetlands of greater Dhaka district, Bangladesh. *Bangladesh Journal of Environmental Science* 1; 33 – 41.

A.K.M. Rashidul Alam, A.B.M. Enayet Hossain and Sirajul Hoque. 2003. Carbon contents of humus in some freshwater wetland soils of Bangladesh. *Bangladesh Journal of Botany* 32: 5 - 9.

A.K.M. Rashidul Alam, A.B.M. Enayet Hossain, Sirajul Hoque and M.M. Rahman.2003. Major physicochemical properties of soil of some freshwater wetlands of greater Dhaka district, Bangladesh. *Journal of the Asiatic Society of Bangladesh (Science)* 29 (1):53 – 60.

Md. Nurul Islam, Sirajul Hoque and Aminul Islam. 2003. Sulfur-Iron interactions in wheat, rice and mungbean. *The Dhaka University Journal of Biological Sciences* 12 (2): 139 - 146.

Munira Sultana, Moniruzzaman Khondaker and Sirajul Hoque 2003 Status of epipellic algae and sediment composition of two urban ponds. *Journal of the Asiatic Society of Bangladesh* 29 (1): 37 – 44.

A A. Khan, S. Hoque, S.M.I. Huq, K. Q. Kibria and M. A. Hoque.2003. Evidence of bacterial activity in the release of arsenic – A case study from the Bengal delta of Bangladesh. *Journal of the Geological Society of India* 61: 209 – 214.

- I. Jahan, S.M. Ullah, S. Hoque and T. K. Ullah. 2003. Effects of arsenic on the mineral nutrition of rice plant. The Dhaka University Journal of Biological Sciences 12 (2): 165 - 175.
- I. Jahan, S. M. Ullah, S. Hoque and M. G. Kibria. 2003. Effects of arsenic on some growth parameters of rice plants. The Dhaka University Journal of Biological Sciences 12(1): 71-77.
- I.
- A.K.M.R. Alam, A. B. M. E. Hossain and S. Hoque. 2002. Water quality of some freshwater wetlands of greater Dhaka district. Bangladesh Journal of Life Science 4( 1&2): 9 -15.
- Mihir Lal Shaha, M. R. Khan, Roksana Rahman and Sirajul Hoque. 2002. Pollution level and bacterial flora of the re-excavated Dhanmondi Lake, Dhaka Bangladesh. Bangladesh Journal of Botany 31(1): 9 – 13.
- A. Rahman, A.H. Khan, S. Hoque and T. H. Khan. 2002. Effects of puddling and water regimes on soil properties and yield of rice. The Dhaka University Journal of Biological Sciences 11(2): 133 – 138.
- S.M.F. Rabbi, T. H. Khan, A.H. Khan and S. Hoque. 2002. Effect of water stress and N-P fertilizer application on nutrient uptake and grain quality of wheat (*Triticum aestivum* L.). The Dhaka University Journal of Biological Sciences 11(1): 17-24.
- M. Aminul Islam, M. Mahfuzur Rahman, A. B. M. Enayet Hossain and Sirajul Hoque. 2001. Physico-chemical properties of the soil of Jahangirnagar University Campus and their impacts on existing phytodiversity. Bangladesh Journal of Life Sciences 13 (1 & 2): 75-81.
- M. G. Kibria, A. Islam, S. Hoque and M. N. Islam. 2001. Effects of pesticides dimecron, heptachlor and sevin on the growth of wheat and maize. The Journal of the Asiatic Society of Bangladesh, Science 27(2): 231 –238.
- S. Jahan, T. H. Khan, A. H. Khan and S. Hoque. 2001. Erosion related physical properties of some hill soils of Bangladesh. The Dhaka University Journal of Biological Sciences 10:137-143.
- M. A. H. Palash, A. Islam, S. Hoque, A. H. Khan and S. A. Hossain. 2001. Iron and zinc dynamics in submerged soils. Dhaka University Journal of Biological Science 10 (1): 113 – 116.
- Md. Golam Kibria, Aminul Islam, Sirajul Hoque and Khan Towhid Osman. 2000. Effects of pesticides on the nutrient concentrations of wheat (*Triticum aestivum*). The Chittagong University Journal of Science, 24 (2): 55 - 61.
- Md. Golam Kibria, Aminul Islam, Sirajul Hoque and Khan Towhid Osman. 2000. Effects of pesticides on the nutrient concentrations in leaf, straw and grain of maize (*Zea mays*). The Chittagong University Journal of Science, 24 (2): 63 - 68.
- M. A. H. Palash, A. Islam, S. Hoque, A. H. Khan and S. A. Hossain. 2000. Behavior of soil Mn, Cu and B under submerged condition. Bangladesh Journal of Soil Science 26: 133-136.
- S. M. F. Rabbi, T. H. Khan, A. H. Khan and S. Hoque. 2000. Effect of water stress and N – P fertilizer application on agronomic parameters of wheat. Bangladesh Journal of Soil Science 26: 113-120.
- M. H. Rahman, T. H. Khan, S. Kawai, A. Tanaka and S. Hoque. 2000. Effect of soil compaction on phase change, evapotranspiration and crop growth in Andisol. Bangladesh Journal of Soil Science 26: 79-88.
- Farida Begum, Bimal Chandra Sarker and Sirajul Hoque. 2000. Effects of salinity on growth and accumulation of Na<sup>+</sup>, K<sup>+</sup>, and Cl<sup>-</sup> in maize (*Zea mays*). The Dhaka University Journal of Biological Sciences 9 (2): 193 – 198.
- M. S. Khan, T. H. Khan, S. Hoque, A. Islam and W. Sultana. 2000. Effects of alternate tillage practices on soil bulk density and soil strength of soils. Journal of Agricultural Research 38 (2):143 – 154.

- Housne Ara Begum, Md. Majibur Rahman, Naiyyum Choudhury and Sirajul Hoque. 1999. Growth of locally isolated yeast strain SC-4 in molasses medium. *Bangladesh Journal of Science and Technology* 1 (2): 277 – 281.
- Fauzia Begum, Shahana Parveen, Housne Ara Begum and Sirajul Hoque. 1999. Microbiological quality of different companies mineral and drinking water available in Dhaka City. *Bangladesh Journal of Science and Technology* 1 (2): 209 – 212.
- M. Q. Haque, M. I. Ali, S. Hoque and A. Islam. 1999. Potassium fixation by some benchmark soils of Bangladesh. *Journal of Bangladesh Academy of Sciences* 23 (2): 141 – 147.
- M. R. Khan, M. L. Shaha, S. Hoque and M. Anisuzzaman. 1999. Bacteria and chemical pollutants of an industrial waste disposal lagoon. *Bangladesh Journal of Botany* 28 (2): 97 – 102.
- Muhammad Hasinur Rahman, Shigenao Kawai, Shah Alam, Sirajul Hoque, Akihiro Tanaka and Minoru Ho. 1999. Effect of compaction on plant growth in an Andisol. *Japanese Journal of Tropical Agriculture* 43 (3): 129 – 135.
- Housne Ara Begum, Md. Majibur Rahman, Naiyyum Choudhury and Sirajul Hoque. 1999. Influence of inoculum size and different components of MYMP medium on the growth of *Saccharomyces cerevisiae* strain SC-4. *Bangladesh Journal of Microbiology*: 16 (1): 21 – 27.
- M. S. Khan, T. H. Khan, S. Hoque, A. Islam and A. K. M. S. Haque. 1999. Effect of alternate tillage practices on soil moisture retention and temperature characteristics of soil under rice- wheat cropping sequence. *Bangladesh Journal of Science & Technology* 1(1): 83 – 96.
- Mohd. Shamsul Alam, Newaz Khalis Ahmed, Nasser Ejazul Huq and Sirajul Hoque. 1998. Sediment and nutrient flux of the Kumira River, Chittagong, Bangladesh. *Proceedings of the 20th Bangladesh Science Conference Part-2*: 399 – 410.
- M. S. Khan, T. H. Khan, A. Islam, S. Hoque and M. S. Islam. 1998. Effect of alternate tillage practices on soil structure under rice-wheat cropping sequence. *The Bangladesh Journal of Scientific Research* 16 (2): 209 – 219.
- Khadiza Quadir, Mohd. Shamsul Alam, Mirza Mafiz Uddin, A. B. M. Enayet Hossain and Sirajul Hoque. 1993 – 1998 (Printed in 2000). Vegetation diversity in floodplains. *Journal of the National Geographical Association* 26 (1 – 2): 57 – 68.
- M. Anwar Hossain, Sohel Ahmed and S. Hoque. 1997. Abundance and distribution of *Bacillus thuringiensis* in the agricultural soils of Bangladesh. *Journal of Invertebrate Pathology (USA)* 70: 221 – 225.
- M. Hossain, S. N. Hossain, M. A. Hossain and S. Hoque. 1996. Biomass production and wood characteristics of six multipurpose eighteen month-old tree species. *Bangladesh Journal of Life Science* 8 (1): 27 – 32.
- M. M. Hassan, S. Hoque and A. Islam. 1996. Nutrient dynamics in submerged soils. I. Chemical and electrochemical changes. *Journal of Bangladesh Academy of Sciences* 22 (2): 219 – 227.
- M. M. Hassan, A. Islam and S. Hoque. 1996. Nutrient dynamics in submerged soils. II. Growth and yield of rice. *Journal of Bangladesh Academy of Sciences* 22 (2): 229–236.
- S. H. Rashid, M. M. Rahman, S. Hoque, and A. B. M. Enayet Hossain. 1996. Some soil properties of Chandra Sal forest, Gazipur, Bangladesh. *Jahangirnagar University Journal of Science* 20: 87 – 96.
- Housne Ara Begum, Md. Majibur Rahman, Naiyyum Choudhury and S. Hoque. 1995. Effect of different media and growth conditions on the production of yeast biomass. *Bangladesh Journal of Microbiology* 12 (1 & 2): 57 – 63.

- Quamrul Haque, M. I. Ali, A. Islam and S. Hoque. 1995. Potassium releasing power of some benchmark soils of Bangladesh. *Bangladesh Journal of Nuclear Agriculture* 11: 9 – 17.
- M. H. Hasinur, T. H. Khan, S. Hoque, A. Tanaka and M. Ito. 1995. Effect of irrigation and intensive cultivation on soil properties: A case study on calcareous soils of Ganges-Kobadak (G-K) irrigation project in Bangladesh. *Journal of Irrigation Engg and Rural Planning* 29: 78 – 94.
- Khalilur R. Chowdhury, M. Shamsul Alam, S. Dara Shamsuddin, A. T. M. Shakhawat Hossain and S. Hoque. 1994. A preliminary assessment of water and sediment pollution load along the coast of Chittagong and Cox's Bazar. *The Journal of NOAMI* 11 (2): 17 – 25.
- M. H. Rahman, T. H. Khan, S. Hoque and D. H. Mazumder. 1993. Evaluation of soils in Ganges-Kobadak (G – K) Project area of Bangladesh with mathematical indices of size and shape characteristics of primary particles. *Bangladesh Journal of Soil Science* 24 (1& 2): 113 – 121.
- M. H. Rahman, T. H. Khan and S. Hoque. 1992. Structural attributes of some soils under rice-based cropping pattern in the Ganges-Kobadak project area of Bangladesh. *Bangladesh Journal of Soil Science* 23 (1 & 2): 79 – 91.
- M. Q. Haque, M. I. Ali, A. Islam and S. Hoque. 1992. Potassium status and release behavior of five selected soil series of Bangladesh. *Proceedings of the Inter-Congress Conference of Commission IV of the International Soil Science Society*, December, 1-3.
- S. A. Chowdhury, A. Islam, R. Mandal, S. Hoque and S. Rahman. 1992. Forms of potassium in some soils of Bangladesh. *The Bangladesh Journal of Scientific Research* 10 (1): 1 – 8.
- M. Q. Haque, M. I. Ali, A. Islam and S. Hoque. 1991. Determination of critical level of soils K for wetland rice. *Bangladesh Journal of Crop Science* 2 (1): 93 – 100.
- S. Hoque, T. H. Khan and A. Islam. 1991. Carbon composition of humus in some agricultural soils of Bangladesh. *The Bangladesh Journal of Scientific Research* 9 (2): 189 – 195.
- G. S. Sharp, S. Hoque, K. Killham, A.H. Sinclair and J. Chapman. 1989. Comparison of methods to evaluate the sulfur status of soils. *Communication in Soil Science and Plant Analysis* 20 (17 – 18): 1821 – 1832.
- A. K. M. A. Hossain, S. Hoque, R. Mandal, T.H. Khan, A.S. Howlader and A. Islam. 1989. A study of availability of soil nitrogen by various extractants. *Bangladesh Journal of Scientific Research* 7 (1): 51 – 60.
- M. Shamsul Alam, S. Dara Shamsuddin and S. Hoque. 1988. Effect of flood control embankments on properties of soils. *Jahangirnagar Review Part A* 12: 29 – 34.
- A. Islam, S. Hoque, R. Mandal and S. A. Chowdhury. 1988. Comparison of methods to evaluate K availability in rice soils. *Sri Lankan Journal of Agricultural Sciences* 25 (2); 67 – 78.
- A. Ali, M. A. Z. Molla, A. Islam and S. Hoque. 1987. Effect of seed inoculation with phosphate solubilizers on plant growth and phosphate uptake by wheat seedlings. *Journal of Bangladesh Academy of Sciences* 11 (1): 129 – 132.
- S. Hoque, S. B. Heath and K. Killham. 1987. Evaluation of methods to assess adequacy of potential soil S-supply to crops. *Plant and Soil* 101: 3 – 8.
- M. M. Rahman, M. D. Alam, S. Hoque and A. Islam. 1986. A study to evaluate the efficiency of digested slurry of organic wastes as manure on the growth of rice plant. *Dhaka University Studies Part E I* (2): 101 – 106.

M. S. A. Hossain, T. H. Khan, S. Hoque and A. Islam. 1986. Effect of single period of soil moisture stress at different stages of development on the growth, yield and chemical composition of rice. Dhaka University Studies Part E I (1):1-6.

M. S. A. Hossain, A. Islam, T. H. Khan and S. Hoque. 1985. Group composition of hums in forest and adjoining cultivated soils of Bangladesh. International Journal of Tropical Agriculture III (3): 180 – 186.

K. Alam, M. M. Chowdhury, S. Hoque, M. S. A. Hossain and A. Islam. 1985. Effect of insecticides on the microbial flora of phyllosphere and rhizosphere of leguminous plant. Dhaka University Studies B 33 (2): 305 – 308.

M. A. Z. Molla, A. A. Chowdhury, A. Islam and S. Hoque. 1985. Detection and composition of extra-cellular polysaccharide in bacteria. Dhaka University Studies Part B XXXIII (1): 17 – 21.

Aminul Islam, Abdul Latif Molla and S. Hoque. 1984. Azolla and blue-green algae as alternative sources of nitrogen for rice and their mineralization in soils of Bangladesh. Indian Journal of Agricultural Science 54 (12): 1056 – 1061.

M. A. Z. Molla, A. A. Chowdhury, A. Islam and S. Hoque. 1984. Microbial mineralization of organic phosphorus in soils. Plant and Soil 78: 393 –399.

F. Ahmed, A. Islam and S. Hoque. 1983. Nutrient status of some rice soils. International Rice Research Newsletter (IRRN); 25 – 26.

M. Z. A. Molla, A. A. Chowdhury, A. Islam and S. Hoque. 1983. Occurrence of phosphate dissolving microorganisms in the rhizosphere of rye grass and wheat plants and in nonrhizosphere soils. Journal of Bangladesh Academy of Sciences 7 (1 & 2): 49 – 56.

R. Islam, A. Islam, S. Hoque and F. Ahmed. 1982. A suitable method for determining available sulfate in some soils of Bangladesh. Dhaka University Studies B XXX (2): 93 – 101.

S. Hoque, A. Islam and T. H. Khan, 1979. Effect of different sources of organic matter on the growth and yield of wheat. Part I. Direct Effect. Bangladesh Journal of Soil science XV: 192 – 206.

S. Hoque, T. H. Khan and A. Islam. 1979. Effect of different sources of organic matter on the growth and yield of rice. Part II. Residual effect. Bangladesh Journal of Soil Science XV: 225 – 236.

## **List of Ph D Students supervised by Professor Dr. Sirajul Hoque**

All of the students are graduated from University of Dhaka

<b>1. Md. Nurul Islam 2000</b>	<b>Effect of Interactions between some of the Nutrient Elements on the Growth and Yield of Wheat, Rice and Mungbean.</b>
<b>Md. Monjurul Alam 2008</b>	<b>Impact of Jute Cultivation on Crop Performances and Soil Properties</b>
<b>Md. Mokhlesur Rahman 2009</b>	<b>Performance of <sup>15</sup>N- Labeled Residues on the Release of n and on Soil Properties Under</b>

	<b>Wheat-Fallow- T. Aman Rice Cropping Pattern</b>
<b>Rebeca Gomes 2012</b>	<b>Effect of Tillage Practices and N-K Fertilization on the Growth, Yield and Nutrient Uptake of Aroids</b>
<b>Md. Thouhidul Islam 2016</b>	<b>Effect of management Practice and Cropping Intensity on Nutritional Status of Low Ganges River Floodplain Soils</b>
<b>Nazmun Nahar 2016 -2017</b>	<b>Effects of Heavy Metal Toxicity on the Biological Transformation of Phosphorus in Soil.</b>
<b>Mohammad Moniruzzaman 2017</b>	<b>Remediation of Metal contaminated Soils in Bangladesh by Chemical Technology</b>
<b>A.T.M. Mustafa Kamal 2018</b>	<b>Occurrence and Charaterization of Atmospheric Trace Gases In Dhaka City, Bangladesh</b>
<b>Sharmin Akhter 2019</b>	<b>Application of GIS to Assess the Land Resources Potentials for Planning Agricultural Development</b>
<b>Ashfaque Ahmed 2019</b>	<b>Effects of Ecological Factors on the Growth of <i>Sonneratia apetala</i> Buch-Hum. in Rangabali Coastal Zone of Bangladesh.</b>

**Number of current Ph.D. Students: 05 (Five)**

**List of M. Phil Student supervised by Professor Dr. Sirajul Hoque**

<b>Md. Nazmul Hasan 2000 National University</b>	Land Evaluation for current and potential suitability of three major crops on Old Brahmaputra Floodplain of Bangladesh.
<b>Shumana Zaman 2016 – 2017 University of Dhaka</b>	<b>Arsenic Fractionation and its Remediation in Agricultural Soils of Bangladesh.</b>

## Project:

- **Management of Acid Soil for Sustainable crop Production in Bangladesh. Sponsored by USDA- Bangladesh Academy of Sciences. Duration: April 2017 to March 2020. Total amount of Taka 30,36,000.00 .**

## List of books/book chapters/Compilation

Compiler of 1380 entries of 'Bangla Academy Biggan Bishwokosh' (Science Encyclopedia in Bengali), Vol. 1-5.

Contributed to the 'Children's Encyclopedia' (in Bengali) in Soil and Agriculture section - published by Islamic Foundation of Bangladesh.

Contributed as Compiler and Translator in Banglapedia (Encyclopedia on Bangladesh). Published by Asiatic Society of Bangladesh.

A booklet titled 'Use of Potash Fertilizers in Bangladesh Agriculture' (in Bengali), published by Bangladesh Agricultural Research Council and Canadian International Development Agency.

Editor of a book titled 'Secondary General Science' Recommended by ITEC and Approved by National Curriculum and Textbook Board for class Nine and Ten for the session, 2005.

A book titled "Coastal Ecology of Bangladesh: Edaphic Feature, Water Quality and Nutrient Status of *Sonneratia apetala* Buch.-Ham" Ashfaque Ahmed and Sirajul Hoque. Published by LAP, Germany.

A Chapter on "Air and Environment of Dhaka" in Environment of Capital Dhaka- Plants Wildlife Gardens Parks Open Spaces Air Water Earthquake. Jointly written by Sirajul Hoque, Md. Abdul Karim and Farzana Ahmed Mohuya. Celebration of 400 Years of Capital Dhaka- Edited by Md. Anwarul Islam, Sharif uddin Ahmed and A K M Golam Rabbani. Asiatic Society of Bangladesh.

Chapter of a book: Chowdhury, R. A., Rashid, T. and Hoque, S. 2013. Assessing surface water quality using Landsat TM and *in situ* data: an exploratory analysis. In: Dewan, A. and Corner, R. (eds.) Dhaka Megacity: Geospatial Perspectives on urbanization. Environment and Health. Springer Science- Business Media. Dordrecht. The Netherlands pp. 301-318.

Member Secretary of the Editorial Board and One of the Compilers of **Abstracts** Research Publications. Department of Soil Science (1949 - 2000) renamed Department of Soil, Water and Environment (2000 -2013) University of Dhaka, Bangladesh Published in June 2015.

Compiler of a book on **Research Publications** Professor Dr. Aminul Islam. Department of Soil Science (Renamed as Department of Soil, Water and Environment) University of Dhaka, Bangladesh. Published in November, 2016.

Water Hyacinth Root for Removal of Aqueous Lead and Cadmium: Possible Application in Wastewater. Farah Monowara Jahangiri, Sirajul Hoque and Mohammad Enayet Hossain. LAP LAMBERT Academic Publication.



Book Chapter on 'Soil Biochemistry' in the book 'Trends in Biochemistry and Molecular Biology' Edited by Professor Dr. Hossain Uddin Shekhar and Dr. M.M. Towhidul Islam of the Department of Biochemistry and Molecular Biology of the University of Dhaka, Bangladesh. Nova Science Publishers Inc., USA.

----