


## Curriculum Vitae

<b>MD ANWARUL ABEDIN</b>	<b>Title/Present Position</b> <b>Professor</b> Laboratory of Environment and Sustainable Environment Department of Soil Science, Bangladesh Agricultural University (BAU), Mymensingh-2202, Bangladesh Cell phone: +880 1718031462 E-mail: <a href="mailto:m.a.abedin@bau.edu.bd">m.a.abedin@bau.edu.bd</a> url: <a href="http://www.anwarulabedin.com">www.anwarulabedin.com</a>		
<b>Specialization</b>			
Risk assessment and community mapping, resilience indexing, environmental impact assessment, social capital-ethnic community and agriculture interaction, community based CCA adaptation and DRR issues. Climate smart agriculture and food security, soil health issues and soil and water pollution, toxic metal and microplastic analysis, waste management, land use and land cover change water resource management, water quality assessment both surface and groundwater, waste management			
<b>Skill and Experience</b>			
Have 18 years teaching and research experiences in the field of environmental studies including, environmental impact assessment, community-based adaptations and resilience mapping, climate change adaptation and disaster risk reduction, land use change, community participation, community-based adaptations. climate smart agriculture, coastal zone management, water resource management, waste management, Trainer on Integrated Risk Assessment Methods Using Spatial and Social Vulnerability Data for Disaster Risk Reduction supported by China Academy of Science (CAS). Played lead role for the preparation of National Science and Technology Plan for DRR and Co-lead in Policy review on Climate Change Education (CCE) and Education for Sustainable Development (ESD) in Bangladesh supported by UNESCO, Paris. He has extensive working experiences with Rohingya and host community in Cox's bazar. Worked as consultant with IUCN, FAO, JICA and UKRI-GCRF, Oxfam and CNRS etc.			
<b>Education</b>			
<i>Institution</i>	<i>Degree</i>	<i>Year</i>	<i>Field of study</i>
Ritsumeikan University, Japan	Post-Doc (JSPS)	2024-25	Disaster Management and agriculture
Northumbria University, UK	Post-Doc	2014-15	Disaster Management
Kyoto University, Japan	Post-Doc (JSPS)	2011-13	Int'l environment & disaster management
Kyoto University, Japan	PhD	2007-11	Environmental studies
Bangladesh Agricultural University	MS	2004	Soil and water pollution
Bangladesh Agricultural University	BScAg.(Hons)	2000	Agriculture
<b>Employments</b>			
25 Sep 2015 – to date	Professor, Department of Soil Science, BAU		
15 Mar 2019 – to date	Adjunct Professor, Disaster Risk Management Unit, Philippine School of Business Administration, Manila, Philippine		
8 Mar 2017 – 7 Mar 2019	Head, Department of Soil Science, BAU		
25 Sep 2011 – 24 Sep 2015	Associate Professor, Department of Soil Science, BAU		
25 Sep 2006 – 24 Sep 2011	Assistant Professor, Department of Soil Science, BAU		
25 Sep 2004 – 24 Sep 2006	Lecturer, Department of Soil Science, BAU		
<b>Consultancy</b>			
15 Sep 2022 – 5 Nov 2022	Consultant of Supporting and promoting the localization agenda for NRM and agriculture emergency response and resilience at Cox's Bazar by CNRS and FAO-UN		
1 Jul 2022 – 31 Dec 2022	Consultant of Improve Environmental Sanitation: FSM By-product Reuse Project in Rohingya Camp, Cox's Bazar implemented by Oxfam Bangladesh and supported by UNHCR.		
1 Nov 2021 – 28 Feb 2022	Consultant of Living Deltas Hub Project funded by UKRI-GCRF and implemented by School of DDS-SERD of Asian Institute of Technology (AIT), Bangkok, Thailand		
1 Jul 2020 – 31 Dec 2020	Consultant of Agricultural Hazards Mapping and Vulnerability Analysis Specialist, The Food and Agricultural Organization of United Nations, Cox's Bazar, Bangladesh.		
1 Jan 2020 – 30 Mar 2020	Consultant of draft national watershed policy formulation and implementation framework support by FAO and IUCN, Dhaka Bangladesh		
1 Jun 2016 – 31 Dec 2016	Consultant of Implication of ICT in Flash Flood Management: A Case Study of Sunamganj and Sylhet District, Bangladesh funded by Japan International Cooperation Agency (JICA), Bangladesh Office.		
<b>Other experiences</b>			
Jan 2019 – to date	Editorial Board, Journal of Plant Biotechnology Reports, Springer		
Oct 2016 – Mar 2026	Member, DBAR-Disaster Working Group, Digital Belt and Road (DBAR) initiative, China		

Dec 2019 - to date	Advisory Board Member, iPAGE, Bangladesh
Apr 2014 – to date	Coordinator, University Networks in Bangladesh
2014	PAAR Fellow, Role of University Network in Disaster Management, Kyoto University, Japan and START Secretariat, Washington DC, USA
Apr 2009 – Sep 2010	Research Assistant, Laboratory of Environmental Infrastructure Engineering, Kyoto University, Japan
2010	Teaching Assistant, Graduate School of Global Environmental Studies, Kyoto University, Japan
Jan 2019 – to date	Editorial Board, Journal of Plant Biotechnology Reports, Springer
<p>1. Participated WISA Professional Training for Early Career (RC) workshops on Governance and Allocation and <b>Integrated Water Management</b> under Imperial College London, UK which was held in Istanbul, Turkey, between 19-27 July 2018.</p> <p>2. Invited as trainer and delivered lecture in 2nd International Training Workshop on “<b>Integrated Risk Assessment Methods</b> Using Spatial and Social Vulnerability Data for Disaster Risk Reduction” December 11th to 15th 2017 at Sanya, China.</p> <p>3. Delivered lecture and conduct class on “Community Development in Asia: focus on environment and disaster management” as a part of undergrads course at Graduate School of Global Environmental Studies of Kyoto University, Japan, 2012-2013</p> <p>4. Delivered lecture and conduct class on “Community Governance and Disaster Risk Reduction in Asia” as a part of GCOE-HSE course of graduate student, Kyoto University, Japan, 2012</p> <p>5. Certificate course on “<b>Human Security Engineering</b>” offered by Global Centre for Education and Research on Human Security Engineering for Asian megacities, Kyoto University, Japan, 2011</p>	
<b>Projects</b>	
<b>On-going (5)</b>	
<ol style="list-style-type: none"> <li>1. PI of a project entitled “Production Efficiency and Employment Nexus: Advanced Technology based Urban and Peri-urban Horticulture in Bangladesh and Nepal” funded by Feed the future Innovation Lab for Horticulture, University of California, Davis and USAID, USA from March 2023 to August 2026.</li> <li>2. Team member of a project entitled “Loss and Damage Estimation from Extreme Climate Events in Rice Crop Using Remote Sensing-Based Information for Farmers’ Risk Reduction” has been selected for the Collaborative Regional Research Programme (CRRP) by APN from 2023 to 2026.</li> <li>3. Team member of a project entitled “GIS-based education cooperation project for mountain disaster resilience improvement in the South Asian countries and China” funded by Ministry of Science and Technology, China (MOST) Foreign experts introduction program, China from July 2022 to Dec 2023.</li> <li>4. Collaborator of a project entitled “Enhancing Ecosystem Based Adaption to Disaster Risk Reduction in the Himalayan river basin: Integrating of traditional and local knowledge in disaster management plan in Nepal, India and Bangladesh” funded by APN (Asia Pacific Network for Global Change Research), Japan from October, 2021 to September, 2023.</li> <li>5. Collaborator of a project entitled “Assessing the Profitability of Climate Smart Agriculture in the Ganges-Brahmaputra River Basin of South Asia” funded by APN (Asia Pacific Network for Global Change Research), Japan from October, 2021 to September, 2023.</li> </ol>	
<b>Completed (14)</b>	
<ol style="list-style-type: none"> <li>1. Co-PI of a project entitled “Evaluation of cyclonic disaster resilience of coastal health care infrastructure in Bangladesh: a special comparison with Japan” funded by CDRI: Coalition for Disaster Resilient Infrastructure Fellowship Team, India from 2022-2023.</li> <li>2. PI (Bangladesh part) of a project titled “Network for Building Multi-agency Collaboration for Creating Resilient Environments and Communities against Climate Change (Unite4Resilience)” funded by ESRC (Economic and Social Research Council)-UKRI, UK from Jan 2021 to Mar 2022</li> <li>3. PI of a project entitled “Sources and fate of nitrate pollution in the Jamuna river basin of north-central Bangladesh” funded by BAURES, Bangladesh Agricultural University, Bangladesh from July, 2021 to June 2023.</li> <li>4. PI of a project titled “ICT in the time of COVID’19 and beyond - an approach of alleviating climate change adaptation challenges and vulnerabilities in the southwestern coast of Bangladesh” funded by the International Development Research Center (IDRC), Canada from 01 August 2020 to 31 December 2021</li> <li>5. Collaborator of a project entitled “Impact of climate change, Land use land cover, and socio-economic dynamics on landslides in South and East Asia” funded by International Science Council (ICSU), October 2019 to December 2021.</li> <li>6. Principal Investigator (PI) of a project entitled “Determination of Critical Limit of Nutrients for Soils and Crops” funded by World Bank and Government of Bangladesh, March. 2018 – June. 2021.</li> <li>7. Consortium member of a project entitled “Disaster Prevention/Mitigation Measures against Floods and Storm Surges in Bangladesh” funded by JICA-JST, Japan from April, 2014- March 2019.</li> <li>8. Member of a project entitled “Development and Commercialization of Municipal Solid Waste Compost and Soil Testing Kit by BAU-ACI Collaboration” funded World Bank and GoB from</li> <li>9. PI of a project entitled “Climate change, water and conflict nexus: Gender based adaptation measures in coastal Bangladesh” funded by DECCMA and CARIAA, Canada, November 2017 – March 2018.</li> <li>10. Principal Investigator (PI) of a project entitled “Nutrient Dynamics of Water in Shrimp Farm of Southwest</li> </ol>	

<p>Coastal Ecosystem in Bangladesh” funded by Kurita Water and Environment Foundation, Japan from October 2017 to September 2018.</p> <ol style="list-style-type: none"> <li>Country Leader of a project entitled “Smart water solution in Bengal Delta” funded by Keio University, Japan, April 2017 to March 2018.</li> <li>PI of a project entitled “Coping with Flash flood: Potentials of promising Crop Production Practices for North-eastern Haor Areas of Bangladesh” funded by UGC, Bangladesh from Jul. 2017–Jun. 2018.</li> <li>PI of a project entitled “Adoption of Drought Tolerant Rice Varieties in Northwestern Bangladesh: Constraints and Measures at farmers’ level” funded by BAURES, BAU from Jan. 2017–Dec. 2018.</li> <li>Member of work package-5 entitled “ESPA Deltas: Assessing Health, Livelihoods, Ecosystem Services and Poverty Alleviation in Populous Deltas funded by DFID, ESRC, NERC and LWEC from October 2013 to December 2016.</li> </ol>
<p><b>Academic Awards</b></p> <ol style="list-style-type: none"> <li>JSPS Invitational Fellowship -awarded by Japanese Society for the Promotion of Science (JSPS), Japan, Year 2024-2025 (10 months).</li> <li>CDRI-Fellowship – Awarded by CDRI: Coalition for Disaster Resilient Infrastructure Fellowship Team, India from 2022-2023.</li> <li>Best Presentation Award-2019 - Awarded by Bangladesh Agricultural University Research System (BAURES). Annual Workshop-2019, Bangladesh Agricultural University, Mymensingh-2202, Bangladesh.</li> <li>Research Grant Award-2017, KURITA Water and Environment Foundation, Japan</li> <li>Best Publication Award-2016 – Awarded by Bangladesh Agricultural University Teacher’s Council, Bangladesh Agricultural University, Bangladesh-2017.</li> <li>Visiting Scholar - Awarded by British Council Researchers Links, UK. Year 2014-2015.</li> <li>PARR Fellowship (PARR Research Fellow) - Awarded by International START Secretariat, Washington, DC, USA, and hosted by Kyoto University, Japan, Year 2014.</li> <li>Post Doctoral Fellowship – Awarded by Japanese Society for the Promotion of Science (JSPS), Japan, Year 2011-2013.</li> <li>Post-Graduate Scholarship (for Doctoral Program) – Awarded by Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan. Year 2007-2011.</li> <li>VLIR-UOS Scholarship (for M. Sc. Program in Physical Land Resources) - Awarded VLIR-UOS Scholarship Program, Ghent University, Belgium. Year 2007.</li> <li>University Merit Scholarship at Under-Graduate level, Bangladesh Agricultural University, Bangladesh, 1997-2000.</li> <li>University Merit Scholarship at Post-Graduate level, Bangladesh Agricultural University, Bangladesh, June 2003- December 2004</li> <li>Professor Karim Memorial Trust Award (For obtaining highest mark among all students appeared in B.Sc.Ag.(Hons.) in department of Soil Science) – Awarded by Professor Karim Memorial Trust, Bangladesh Agricultural University, Bangladesh. Year 2005.</li> <li>Zilla Parishad Award (for obtaining the highest mark among students of Chapai Nawabganj District at Secondary School Certificate Examination) - Awarded by the Chapai Nawabganj Zila Porishad, The People's Republic of Bangladesh Government. Year 1995.</li> </ol>
<p><b>Research supervisor of master’s and PhD student</b></p> <p>Supervised 30 Master’s and 5 PhDs and Currently supervising 8 Master’s and 2 PhD students</p>
<p><b>Technology</b></p> <p>Mobile app “Krishi Surokha” <a href="https://drive.google.com/drive/u/1/folders/1zib3Hw8phgbxAKk3X2JUUZAR3-piFwLz">https://drive.google.com/drive/u/1/folders/1zib3Hw8phgbxAKk3X2JUUZAR3-piFwLz</a></p>
<p><b>International Seminars/Symposium/Conference/Workshop Attended</b></p> <ol style="list-style-type: none"> <li>Invited speaker on “Vulnerability Assessment of Landslide Prone Coastal Hilly Areas of Bangladesh under Climate Extremes” in The 7th International Symposium on Natural Hazard-Triggered Technological Accidents (Natech 2023), Chengdu, <b>China</b> from 29 June to 5 July, 2023.</li> <li>Participated and presented research paper on “Enhancing Productivity and Profitability in Horticulture: Investment Opportunities in Bangladesh” in First Annual Meeting organized by Horticulure Innovation Lab, UC Davis and supported by USAID in <b>Kenya</b> from 22-26 May, 2023.</li> <li>Invited speaker on “Climate change and salinity induced nutritional imbalance of rice and its risk to coastal community of Bangladesh” in 4<sup>th</sup> Digital Belt And Road Science Team meeting and Conference at beautiful city of Shenzhen, <b>China</b> from December 16-19, 2019.</li> <li>Key note speech on "Water related coastal hazards in Bangladesh: Pragmatic actions of communities and local government" in Geohazards Risk Reduction Initiatives in South and South East Asia” 21-22nd November, 2019 at Delhi Technological University, Delhi, <b>India</b>.</li> </ol>

5. Invited speaker on "Indigenous Knowledge on Agricultural Climate Change adaptation: Evidence from Bangladesh" in Regional Workshop on adaptation communication (Recognizing and communicating the contributions of indigenous and local Knowledge in the Hindu Kush Himalaya) from 29-30 August 2019 at Kathmandu, **Nepal**.
6. Invited speaker on "University networking as a tool to reduce disaster risk in Bangladesh" in International Conference on Silk-Road Disaster Risk Reduction and Sustainable Development" 11-12 May, 2019 at Beijing, **China**.
7. Participated and presented paper on "Climate change and salinity induced nutritional imbalance of rice and its risk to coastal community of Bangladesh" in 14th APRU Multi-Hazards Symposium on Risk, Resilience and Reconstruction: Science and Governance for Effective Disaster Risk Reduction and Recovery in Australia and the Asia Pacific October 21-24, 2018 at Australian National University, Canberra, **Australia**.
8. Invited speaker on "Climate Change Innovation and Resilience for Sustainable Agriculture: Evidence from Southwest Coast of Bangladesh" in International conference on India Biodiversity Meet 2019 from 14-16 February 2019 at Indian Statistical Institute, Kolkata, **India**.
9. Invited speaker on "Coping with flashflood under changing climate in north-eastern haor areas of Bangladesh: Potentials of promising crop production practices in AASSA-FEB RAS International Workshop on "Climate Change adaptation and mitigation: Sustainable agriculture and health security" 01st October – 5th October, 2018, Birobidzhan, Russian Federation. **Russia**.
10. Invited speaker on "Water related coastal hazards in Bangladesh: Pragmatic actions of communities and local governments" in International Workshop on "Communities and Governments in Dealing with Risks in Society: China and Japan" March 24-25, 2018, Hitotsubashi University, Kunitachi, Tokyo, **Japan**.
11. Key note paper on "Community based Initiatives and Innovations for Resilience Agriculture: Evidence from the Southwest Coast of Bangladesh" in 4<sup>th</sup> Sub-regional workshop on community resilience to climate change in the Bay of Bengal at Dhaka, **Bangladesh**
12. Participated and presented in the 3<sup>rd</sup> Joint Coordinating Committee in Japan under Research on Disaster prevention/mitigation measures against flood and storm surges in Bangladesh at Kyoto University, **Japan** during 1-2 February, 2017.
13. Invited and presented National Science and Technology Plan for DRR in Bangladesh in The 2nd Workshop to Strengthen Scientific Advisory Capacities for Disaster Risk Reduction at Academia Sinica, Taipei, **Taiwan** during 16-17 January 2017.
14. Invited and participated as an expert in Regional Innovation Forum at Bangkok, **Thailand** during 6-7 December, 2016.
15. Invited as country representative and presented paper on Disaster Risk Reduction in Bangladesh: Progresses and Challenges in Strengthening Science Capacities for Sustainable Development and Disaster Risk Reduction implemented by by, DBAR, IRDR IPO, IRDR CHINA, SDIM and RADI at Sanya, **China** during 1-2 December, 2016.
16. Participated and presented in The 1<sup>st</sup> Workshop to Strengthen Scientific Advisory Capacities for Disaster Risk Reduction at Bangkok, **Thailand** during 25-26 August 2016
17. Participated and presented in 1st Asian Science and Technology Conference for Disaster Risk Reduction: Science-Policy dialogue for Implementation of the Sendai Framework, UNISDR, Bangkok, **Thailand** during 23-24 August 2016.
18. Participated and presented paper in Adaptation Future 2016: Practices and Solutions Conference at Rotterdam, **The Netherlands**, during 10-13 May, 2016.
19. Participated and presented paper in The 12th APRU Multi-Hazards Symposium 2016 at Kyoto University, Kyoto, **Japan**, during 7-8 March, 2016.
20. Invited and participated in a PARR Culmination Meeting at Sasa International House, Chulalongkorn University in Bangkok, **Thailand**, during 24-26 March 2015.
21. Invited and presented paper in the Regional Workshop "Lessons Learned and Knowledge Sharing on Developing Policies, Action Plans and Models using LINKS on Hydro-meteorological Hazards" at AIM Conference Center, Manila, **Philippines**, during 18 – 20 August 2014.
22. Participated and presented paper in the Regional Conference of the International Geographical Union at Kyoto International Conference Centre, Kyoto, **Japan**, during 4-9 August, 2013.
23. Participated and presented paper in the 9th Annual International Conference of the International Institute for Infrastructure Renewal and Reconstruction in Queensland University of Technology, Brisbane, **Australia**, during 8-10 July, 2013.
24. Participated as a national author of Bangladesh an expert consultation on developing guidelines on climate change education at UNESCO Headquarters in Paris, **France**, during 8-10 April, 2013.
25. Participated and presented paper in Japan Society for Natural Disaster Science Conference in Hiroshaki University, **Japan** during 17-19 September, 2012.
26. Participated and presented paper in the 4<sup>th</sup> International Disaster and Risk Conference IDRC Davos, **Switzerland** during 26-30 August, 2012.
27. Participated and presented paper in the 9<sup>th</sup> International Conference on Geo-Environmental Engineering, Seoul National University, Seoul, **Korea** during May 7-8, 2010.
28. Participated and presented paper in the 2<sup>nd</sup> International Symposium on Health Hazards of Arsenic

*Contamination of Groundwater and its Countermeasure*, University of Miyazaki, Miyazaki, **Japan** during May 22-23, 2010.

29. Participated and presented paper in the 6<sup>th</sup> *International Congress on Environmental Geotechnics*. The Indian Geotechnical Society, New Delhi, **India** during November 8-12, 2010.
30. Participated and presented paper in the 45<sup>th</sup> *Japan National Conference on Geotechnical Engineering*, The Japanese Geotechnical Society, **Japan** during August 18-20, 2010.
31. Participated and presented paper in the *International Joint Symposium on Geodisaster Prevention and Geoenvironment in Asia*. Kyushu University, Fukuoka, **Japan** during November 24-25, 2009.
32. Participated and presented paper in the *International Symposium on Geoenvironmental Engineering*, Zhejiang University, **China** during September 8-10, 2009.
33. Participated and presented paper in the 3<sup>rd</sup> *Japan-Malaysia Symposium on Geohazards and Geoenvironmental Engineering-Geo technical and Ecological Environmental Management for Global Sustainability*, Kyoto, **Japan** during.
34. Participated and presented paper in the 4<sup>th</sup> *Vietnamese & Japanese Students' Scientific Exchange Conference*. Kyoto, **Japan** during October 27-28, 2009.
35. Participated and presented paper in the *Eighth Japan-Korea-France Joint Seminar on Geo-environmental Engineering-2008* held at University of Kyoto, **Japan** during June 12-14, 2008.
36. Participated and presented a poster entitled "Genetic study on yield, biomass and nitrogen use efficiency of spring wheat" in the *International Symposium on Plant Nutrition Meets Plant Breeding* held at University of Hohenheim, Stuttgart, **Germany** during September 26-28, 2006.

## Publications

### Journal paper:

#### Impact factor Journal

1. Parvin, G A; Takashino, N; Islam, M S; Ahsan, R; Kibria, M G and **Abedin, M A. 2023**. Does social capital contribute to resilience? Exploring the perspectives of displaced women living in urban slums in Khulna city. *International Journal of Disaster Risk Reduction* 94 (2023) 103838. <https://doi.org/10.1016/j.ijdrr.2023.103838> [5.0]
2. Urmi, T.A.; Islam, M.M.; Zumur, K.N.; **Abedin, M.A.**; Haque, M.M.; Siddiqui, M.H.; Murata, Y.; Hoque, M.A. 2023. Combined Effect of Salicylic Acid and Proline Mitigates Drought Stress in Rice (*Oryza sativa* L.) through the Modulation of Physiological Attributes and Antioxidant Enzymes. *Antioxidants* 2023,12,1438. <https://doi.org/10.3390/antiox12071438> [7.00]
3. Gulsan Ara Parvin, Nina Takashino, Md Shahidul Islam, Md. Habibur Rahman, **M A. Abedin**, Reazul Ahsan. 2022. Disaster-induced damage to primary schools and subsequent knowledge gain: Case study of the Cyclone Aila-Affected community in Bangladesh. *International Journal of Disaster Risk Reduction* 72 (2022) 102838. <https://doi.org/10.1016/j.ijdrr.2022.102838> [5.0]
4. **Abedin, M. A.**; Parvin, G.A.; Habiba, U.; Kibria, M.G.; Ahsan, R.; Onitsuka, K.; Rahman, M.M.; Kobeasy, M.I.; Gaber, A. 2022. ICT Uses, Constraints, and Challenges in Flash Flood Risk Management: A Case Study in North-Eastern Haor Areas of Bangladesh. *Sustainability* 2022, 14, 8018. <https://doi.org/10.3390/su14138018>. [3.889]
5. Hoque T S, **Abedin M A**, Kibria M G, Jahan I, Hossain M A. 2022. Application of moringa leaf ex-tract improves growth and yield of Tomato (*Solanum lycopersicum*) and Indian Spinach (*Basella alba*). *Plant Science Today*. 9(1):137–143. <https://doi.org/10.14719/pst.1353> [0.9]
6. Javed Hasan, **M A Abedin**, Shanon Iffat Alam, Md Kamrul Hassan, Md Hosenuzzaman, Rajib Mahamud & Md Shahjahan 2022. Microplastic contamination of coastal hill soils: Perspective of Rohingya Refugee camps in Bangladesh, *Soil and Sediment Contamination: An International Journal*, DOI: 10.1080/15320383.2022.2096565 [3.057]
7. Rahman, M.; Jahangir, M.M.R.; Kibria, M.G.; Hossain, M.; Hosenuzzaman, M.; Solaiman, Z.M.; **Abedin, M.A. 2022**. Determination of Critical Limit of Zinc for Rice (*Oryza sativa* ) and Potato (*Solanum tuberosum* L.) Cultivation in Floodplain Soils of Bangladesh. *Sustainability* 2022, 14, 167. <https://doi.org/10.3390/su14010167>. [3.889]
8. Jahan, I.; **Abedin, M.A.**; Islam, M.R.; Hossain, M.; Hoque, T.S.; Quadir, Q.F.; Hossain, M.I.; Gaber, A.; Althobaiti, Y.S.; Rahman, M.M. Translocation of Soil Arsenic towards Accumulation in Rice: Magnitude of Water Management to Minimize Health Risk. *Water*, 2021, 13, 2816. <https://doi.org/10.3390/w13202816> [3.530]
9. Yesmin, R., Hossain, M., Kibria, M. G., Jahiruddin, M., Solaiman, Z. M., Bokhtiar, S. M., Hossain, M. B., Satter, M. A., **Abedin, M. A. 2021**. Evaluation of Critical Limit of Sulphur in Soils for Wheat (*Triticum aestivum* L.) and Mustard (*Brassica napus* L.). *Sustainability* 2021, 13, 8325. <https://doi.org/10.3390/su13158325> [3.889]
10. Gulsan Ara Parvin, S M Reazul Ahsan, Azalia bt Mohd. Yusop, Jessica Gordon, **M. A. Abedin** and Mohd.

- Hamdan Ahmad. **2021**. Kampung (Village) Flood Resilience: An Empirical Analysis in Malaysia. *Environmental Hazards*. DOI: 10.1080/17477891.2021.1887800. [3.781]
11. Sultana, M.; Jahiruddin, M.; Islam, M.R.; Rahman, M.M.; **Abedin, M. A.**; Solaiman, Z.M. **2021**. Nutrient Enriched Municipal Solid Waste Compost Increases Yield, Nutrient Content and Balance in Rice. *Sustainability*, 13, 1047. <https://doi.org/10.3390/su13031047>. [3.889]
  12. **M A Abedin**, Andrew E. Collins, U Habiba and Rajib Shaw. **2019**. Climate Change, Water Insecurity and Health Adaptation in Southwestern Bangladesh. *International Journal of Disaster Risk Science*. 10 (1): 28-42. [5.0]
  13. **M A Abedin** and Shaw R. **2015**. The role of university networks in disaster risk reduction: Perspective from coastal Bangladesh. *International Journal of Disaster Risk Reduction*, 13: 381-389. [5.0]
  14. Attila N. Lazar, Derek Clarke, Helen Adams, Abdur Razzaque Akanda, Sylvia Szabo, Robert J. Nicholls, Zoe Matthews, Dilruba Begum, Abul Fazal M. Saleh, **M A Abedin**, Andres Payo Garcia, Peter Kim Streatfield, Craig Hutton, M. Shahjahan Mondal, Abu Zofar Md. Moslehuddin. **2015**. Agricultural livelihoods in coastal Bangladesh under climate and environmental change - A model framework, *Environmental Science: Processes & Impacts*, 17(6): 1018-1031. 10.1039/C4EM00600C. [5.334]
  15. **M A Abedin**, Habiba, U. and Shaw, R. **2014**. Community perception and adaptation to safe water scarcity: Salinity, arsenic and drought risks in coastal Bangladesh. *International Journal of Disaster Risk Science*, 5:110–124. DOI 10.1007/s13753-014-0021-6. [4.5]
  16. **M A Abedin**, Takeshi Katsumi, Toru Inui and Masashi Kamon. **2011**. Arsenic Removal from Contaminated Groundwater by Zero Valent Iron: A Mechanistic and Long-Term Performance Study. *Soils and Foundations*. 51(3): 369-377. Doi. <http://dx.doi.org/10.3208/sandf.51.369>. [3.098]
  17. M Hossain, M R Islam, M Jahiruddin, **M A Abedin**, S Islam and A A Meharg. **2008**. Effects of Arsenic-Contaminated Irrigation Water on Growth, Yield, and Nutrient Concentration in Rice. *Journal of Communications in Soil Science and Plant Analysis*. **39(1 & 2)**: 302 –313. Doi. 10.1080/00103620701759335. [0.767]

#### ***Without Impact factor Journal***

1. Sultana, M; Jahiruddin, M; Kibria, M G; Hosenuzzaman, M and **Abedin, M A**. **2023**. Applying organic amendment enriches nutrient status of municipal solid waste compost and its application enhances tuber yield and nutrient concentrations of potato. *Waste Disposal & Sustainable Energy*. <https://doi.org/10.1007/s42768-023-00142-6> [Springer]
2. G A Parvin, R Dasgupta, **M. A. Abedin**, M Sakamoto, B Inairige, M G Kibria, K Fujita, M Basu, R Shaw & H Nakagawa. **2022**. Disaster experiences, associated problems and lessons in southwestern coastal Bangladesh: exploring through participatory rural appraisal to enhance resilience, *Sustainable and Resilient Infrastructure*, DOI: 10.1080/23789689.2022.2138165 [Taylor & Francis]
3. Mou, M. A., Yeasmin, S., Abedin, M. A., Anwar, M. P., & Islam, A. K. M. M. (2022). Weed suppressive ability ofBRRi released popular monsoon rice varieties. *Archives of Agriculture and Environmental Science*, 7(2), 261-266, <https://dx.doi.org/10.26832/24566632.2022.0702015>
4. Marufa Sultana, M Jahiruddin, M Rafiqul Islam, M Mazibur Rahman, **M A Abedin**, Abdullah Al Mahmud. **2021**. Nitrogen, phosphorus and sulphur mineralization in soil treated with amended municipal solid waste compost under aerobic and anaerobic conditions. *International Journal of Recycling of Organic Waste in Agriculture* (2021)10: 245-256. Doi: 10.30486/IJROWA.2021.1908103.1124
5. Sultana, M.; Jahiruddin, M.; Islam, M.R.; Rahman, M.M.; **Abedin, M. A**. **2021**. Effects of nutrient enriched municipal solid waste compost on soil fertility, crop yield and nutrient content in brinjal. *Eurasian journal of soil science*, 10 (3): 191-198. <https://dergipark.org.tr/tr/pub/ejss/issue/60044>
6. Kabir, M.H., Nayan, H.R., **Abedin, M.A** and Meah, M.B. **2021**. Soil supplementation withSi, B and Zn and their synergetic effects in reducing severity of wheat blast (Magnaporthe oryzae Triticum). *Int.J. Agril. Res. Innov.Tech.*11(2):76-84. <https://doi.org/10.3329/ijarit.v11i2.57259>
7. Jahan, I., Yasmin, F., Hoque, T. S., Hossain, M., and **Abedin, M. A**. **2021**. Assessing Yield and Quality of Rice Cultivars (BRRi dhan56 and BRRi dhan71) under Different Fertilizer Management Practices. *Journal of Environmental Science and Natural Resources*, 12(1-2): 109-115. <https://doi.org/10.3329/jesnr.v12i1-2.52006>
8. Islam AKMM, Hia MAH, **Abedin MA**, Alam MJ, Anwar MP, Islam AKMA. **2021**. Seedling growth of selected field crop species as influenced by Jatropha curcas extract. *Journal of Horticulture and Postharvest Research*, 4(1): 1-12. doi:10.22077/jhpr.2020.3192.1128
9. G Parvin, R Ahsan, M H Rahman and **M A Abedin**. **2020**. Coronavirus (COVID-19) Pandemic: The Role of Printing Media in Asian Countries. *Front. Commun.* 5:557593.doi: 10.3389/fcomm.2020.557593.
10. Md. Esraz-Ul-Zannat, **M A Abedin**, Indrajit Pal and M. Mashroor Zaman. **2020**. Building Resilience Fighting Back Vulnerability in the Coastal City of Khulna, Bangladesh: A Perspective of Climate-Resilient City Approach. *International Energy Journal* 20 (2020) Special Issue 3A, 549 – 566.

11. Marufa Sultana, Mohammad Jahiruddin, Mohammad Rafiqul Islam, Mohammad Mazibur Rahman and **M A Abedin**. 2020. Effects of Nutrient Enriched Municipal Solid Waste Compost on Yield and Nutrient Content of Cabbage in Alluvial Soil. *Asian Journal of Soil Science and Plant Nutrition*. 6 (4): 32-42. DOI: 10.9734/AJSSPN/2020/v6i430097.
12. Rana, R., Kibria, M.G., Hoque, T. S. and **Abedin, M. A.** 2020. Physicochemical properties of sediments and water in shrimp farms of Dacope upazilla in south-west coastal region of Bangladesh. *Fundamental and Applied Agriculture*, 5(2): 264-269. DOI: 10.5455/faa.91979
13. I. Jahan, AKMA Ahsan, MMR Jahangir, M. Hossain, **M.A. Abedin**. 2020. Changes in physico-chemical properties of paddy soil due to water and fertilizer management, *Asian Australasian Journal of Bioscience and Biotechnology*, 5(2), 65-71.
14. I. Jahan, MR Islam, TS Hoque, Hossain M, **MA Abedin**. 2020. Influence of Soil Arsenic in Rice and its Mitigation through Water management, *Journal of Bangladesh Agricultural University*, 18(3), 545-550. <https://doi.org/10.5455/JBAU.103559>.
15. Hoque TS, I Jahan, G Ferdous, **MA Abedin**. 2020. Foliar application of moringa leaf extract as a bio-stimulant on growth, yield and nutritional quality of brinjal, *Journal of Agriculture, Food and Environment* 2020, 1(4): 94-99. <http://doi.org/10.47440/JAFE.2020.1414>.
16. T. S. Hoque, M. S. Rana, S. A. Zahan, I. Jahan, **M. A. Abedin**. 2020. Moringa leaf extract as a bio-stimulant on growth, yield and nutritional improvement in cabbage, *Asian Journal of Medical and Biological Research*, 6(2), 196-203 doi:10.3329/ajmbr.v6i2.48050.
17. Sultana, M. M., Kibria, M. G., Jahiruddin, M., & **M. A. Abedin**. 2020. Composting Constraints and Prospects in Bangladesh: A Review. *Journal of Geoscience and Environment Protection*, 8, 126-139. <https://doi.org/10.4236/gep.2020.89008>.
18. Jahan I, F Yasmin, TS Hoque, M Hossain, MA Abedin. 2019. Assessing yield and quality of rice cultivars (BRRI dhan56 and BRRI dhan71) under different fertilizer management practices. *Journal of Environmental Science and Natural Resources*, 2019, 12(1&2): 109-115.
19. Sohel Rana, Tahsina Sharmin Hoque, **M A Abedin**. 2019. Improving Growth And Yield Performance Of Cauliflower Through Foliar Application Of Moringa Leaf Extract As A Bio-Stimulant. *Acta Scientifica Malaysia*, 3(2): 07-12.
20. AKMM Islam, MM Hasan, S Yeasmin, **M A Abedin**, MA Kader, MH Rashid, MP Anwar. 2019. Bioassay screening of tropical tree sawdust for allelopathic properties and their field performance against paddy weeds. *Fundamental and Applied Agriculture* 4(3): 906–915. doi: 10.5455/faa.54326
21. T Aktar, M R Rahman, **M A Abedin** and A H M J Alam, 2018. Determination of economic efficiency of deep placement and foliar application of urea fertilizer through the performance of boro rice cv. BRRI dhan29. *Res. Agric. Livest. Fish*. 5 (2): 157-164.
22. N J Jhilik, T S Hoque, A Z M Moslehuddin and **M A Abedin**. 2018. Nutritional improvement of wheat by foliar application of moringa leaf extract. *Fundam Appl Agric* 3(3): 565–572. doi: 10.5455/faa.301667
23. **M A Abedin** and U Habiba. 2018. Coping with Flashflood under changing climate in Northeastern haor areas of Bangladesh; Potentials of promising crop production practices. *Journal of Regional Problems* (Special issue in Russia). 21: 3(1), 40-50.
24. C Fang R Shaw, **M A Abedin**, S Briceno, et al. 2017. Challenges of Disaster Risk Reduction in the Belt and Road: Contribution of DBAR. *Chinese Bulletin: Digital Belt and Road Initiative*.
25. N J Jhilik, T S Hoque, A Z M Moslehuddin and M A Abedin. 2017. Effect of foliar application of moringa leaf extract on growth and yield of late sown wheat. *Asian J. Med. Biol. Res.*, 3 (3), 323 - 329; doi: 10.3329/ajmbr.v3i3.34520
26. A K Biswas, T S Hoque and **M A Abedin**. 2016. Effects of moringa leaf extract on growth and yield of maize. *Progressive Agriculture*. 27 (2): 136 – 143. DOI: 10.3329/pa.v27i2.29322
27. I H Manik, **M A Abedin**, M R Rahman, T Chakrobarty, S B Jaman, M A Noor and R Sultana. 2016. Reducing urea demand for rice crop through foliar application of urea in Boro season. *Agric. Livest. Fish*. 3 (1): 79 – 85. DOI: 10.3329/ralf.v3i1.27860
28. **M A Abedin** and M. Jahiruddin. 2015. Waste generation and management in Bangladesh: An overview. *Asian J. Med. Biol. Res.* 2015, 1 (1), 114-120. [http://www.ebupress.com/journal/ajmbr/wp-content/uploads/sites/2/2015/07/17\\_Md-Anwarul-Abedin\\_Waste-Generation.pdf](http://www.ebupress.com/journal/ajmbr/wp-content/uploads/sites/2/2015/07/17_Md-Anwarul-Abedin_Waste-Generation.pdf)
29. **M A Abedin** and Rajib Shaw. 2014. Safe water adaptability for salinity, arsenic and drought risks in southwest of Bangladesh. *Risk, Hazards and crisis in Public Policy*. 4(2): 62-82. DOI: 10.1002/rhc3.12033
30. **M A Abedin**, M Jahiruddin, M R Islam and M Hossain. 2006. Study on arsenic availability in soil as influenced by phosphorus and iron. *Bangladesh Journal of Agriculture & Environment*. 2(1): 25-31.
31. **M A Abedin**, M. Hossain, S. Karmakar and U. Habiba. 2006. Phosphorus availability in soil in relation to arsenic and iron. *Bangladesh J. Prog. Sci. & Tech*. 4(2): 169-172.
32. U Habiba, **M A Abedin**, M A Hossain and S Karmakar. 2006. Study on yield, biomass and nitrogen use

efficiency of different spring wheat genotypes. *Bangladesh J Crop Sci.* 17(2): 461-465.

33. U Habiba, M A Islam, M. Jahiruddin and **M A Abedin**. 2006. Relationship between grain yield and other plant characters in spring wheat as examined with correlation and path co-efficient analysis. *Bangladesh J. Prog. Sci. & Tech.* 6 (1):45-48.
34. M Z Zaman, **M A Abedin**, M Hossain, M M R Jahangir and M K Samim. 2005. Response of inbred and hybrid rice to different fertilizers. *Bangladesh J of Crop Sci.* 16(2): 315-318.
35. M Hossain, M R Islam, M Jahiruddin, **M A Abedin** and S Islam. 2005. Effect of sodium added through irrigation water in rice-rice cropping sequence. *Bangladesh Journal of Environmental Science.* 11(2): 349-354.
36. M S I Mondol, M A R Sarker, **M A Abedin** and A Mahmud. 2005. Effect of added phosphorus on different varieties of Mungbean in Old Brahmaputra floodplain. *Bangladesh J Crop Sci.* 16(2): 349-352.
37. M K Rohman, A Hossain, M Hossain and **M A Abedin**. 2005. Effect of irrigation and added nitrogen on growth and yield of hybrid maize (PACIFIC11). *Bangladesh J. Prog. Sci. & Tech.* 3(1): 89-92
38. M S Islam, M J Abedin Mian, M Hossain and **M A Abedin**. 2005. Effect of organic manure on the yield of rice in presence of inorganic fertilizer. *Journal of the Bangladesh Society for Agricultural science and Technology.* 2(2&3): 65-68.

#### Book

1. **M A Abedin**, U Habiba and R Shaw (Eds.). 2013. Water insecurity: A social dilemma. Emerald Publishers, UK. Vol. 13. Pp 303. ISBN: 978-1-78190-882-2
2. U Habiba, **M A Abedin**, A W R Hassan and R Shaw (Eds.) 2015. Food security and risk reduction in Bangladesh. Springer, Japan, Pp 273. ISBN: 978-4-431-55410-3 (Print) 978-4-431-55411-0 (Online). DOI 10.1007/978-4-431-55411-0.

#### Book Chapter

1. T S Hoque, I Jahan and **M A Abedin**. 2022. Climate-resilient agricultural practices in Bangladesh. Rajib Shaw (ed.). Hand book on Climate Change and Disasters. *Edward Elgar Publishing Ltd.* DOI: 10.4337/9781800371613.0004.
2. Hosenuzzaman, M., Kibria, M.G., Sarkar, R., **Abedin, M.A.** 2022. Landslide, Agricultural Vulnerability, and Community Initiatives: A Case Study in South-East Part of Bangladesh. In: Sarkar, R., Shaw, R., Pradhan, B. (eds) *Impact of Climate Change, Land Use and Land Cover, and Socio-economic Dynamics on Landslides. Disaster Risk Reduction.* Springer, Singapore. [https://doi.org/10.1007/978-981-16-7314-6\\_5](https://doi.org/10.1007/978-981-16-7314-6_5)
3. Kibria, M.G. and **Abedin, M. A.** 2022. University Networking in Improving Academic Resilience to COVID-19 Pandemic: Experiences from Bangladesh. In: Izumi, T., Pal, I., Shaw, R. (eds) *Safety and Resilience of Higher Educational Institutions. Disaster Risk Reduction.* Springer, Singapore. [https://doi.org/10.1007/978-981-19-1193-4\\_8](https://doi.org/10.1007/978-981-19-1193-4_8)
4. Mohammad Golam Kibria and **M A Abedin**. 2022. Safe Water Adaptability for Water Scarcity in Coastal Areas of Bangladesh. In book: *Oxford Research Encyclopedias: Natural Hazard Science* Publisher: OXFORD University Press. DOI: 10.1093/acrefore/9780199389407.013.415.
5. M G Kibria, M Hosenuzzaman, R Shaw and **M A Abedin**. 2021. Citizen sciences for smart water solution in South-western part of Bangladesh. In: *Sangam Shrestha Riyanti Djalante Rajib Shaw Indrajit Pal (Eds) Disaster Resilience and Sustainability.* Elsevier, 629-649. <https://doi.org/10.1016/B978-0-323-85195-4.00025-1>.
6. **M A Abedin**, B Ray, M G Kibria and R Shaw. 2020. Smart Water Solutions to Address Salinity, Drinking Water and Health Issues in Coastal Bangladesh. In: *Chan E., Shaw R. (eds) Public Health and Disasters. Disaster Risk Reduction (Methods, Approaches and Practices).* Springer, Singapore. pp.129-143. DOI: 10.1007/978-981-15-0924-7\_9.
7. B Ray, **M A Abedin** and R Shaw. 2020. Safe Drinking Water Solutions in Parts of West Bengal, India: Combating Health Issues Through Participatory Water Management. Pp185-200. DOI: 10.1007/978-981-15-0924-7\_12.
8. M G Kibria, M H Sumon and **M A Abedin**. 2020. Drought in Bangladesh: Consequence and Adaptive Strategies. In Indrajit Pal and Mihir Bhatt (eds.) *Drought Risk Management in South and South East Asia.* SAGE Publications Pvt Ltd. Pp204-227. DOI: 10.4135/9789353885649.n10
9. **M A Abedin** and Kibria M.G. 2019. Resilience to Water-Related Disasters: Risks, Vulnerabilities and Coping Strategies in Dhaka. In: *Ray B., Shaw R. (eds) Urban Drought. Disaster Risk Reduction (Methods, Approaches and Practices).* Springer, pp DOI: 113-129, [https://doi.org/10.1007/978-981-10-8947-3\\_8](https://doi.org/10.1007/978-981-10-8947-3_8).
10. **M A Abedin** and Rajib Shaw. 2017. Constraints and coping measures of coastal community toward safe



drinking water scarcity in Southwestern Bangladesh. *Science and Technology in Disaster Risk Reduction in Asia: Potentials and Challenges*, Rajib Shaw, Takako Izumi, and Koichi Shiwaku (eds.), Elsevier, USA. pp 431-450. ISBN 978-0-12-812711-7.

11. G A Parvin, M H Ali, K Fujita, **M A Abedin**, U Habiba and R Shaw. **2016**. Land use change in Southwestern coastal Bangladesh-Consequence to Food and Water Supply. Land Use Management in Disaster Risk Reduction Practice and Cases from a Global Perspective. *Banba, Michiko, Shaw, Rajib (Eds.), Springer*, 381-401, doi 10.1007/978-4-431-56442-3\_20.
12. Umma Habiba, **M A Abedin** and Rajib Shaw. **2016**. Food security, climate change adaptation, and disaster risk. Sustainable development and disaster risk reduction, *Juha I. Uitto and Rajib Shaw [editors]. Springer, Japan* pp.87-101, DOI 10.1007/978-4-431-55078-5\_6.
13. **M A Abedin** and Umma Habiba. **2015**. People and community actions on food security. Food security and risk reduction in Bangladesh. Umma Habiba, M A Abedin, Abu Wali Raghieb Hassan and Rajib Shaw (Eds.). Springer, Japan, 157-171, DOI: 10.1007/978-4-431-55411-0\_9.
14. U Habiba, **M A Abedin** and Rajib Shaw. **2015**. Future approaches of food security, sustainable development, environment and resource management and disaster risk reduction. Food security and risk reduction in Bangladesh. Umma Habiba, M A Abedin, Abu Wali Raghieb Hassan and Rajib Shaw (Eds.). Springer, Japan, pp 255-273, DOI: 10.1007/978-4-431-55411-0\_14.
15. Umma Habiba, **M A Abedin** and Rajib Shaw. **2015**. Introduction and overview of food security and risk reduction issues. Food security and risk reduction in Bangladesh. Umma Habiba, M A Abedin, Abu Wali Raghieb Hassan and Rajib Shaw (Eds.). Springer, Japan, pp 1-17, DOI: 10.1007/978-4-431-55411-0\_1.
16. A Z M Moslehuddin, **M A Abedin**, M A R Hossain and U Habiba. **2015**. Soil Health and food security: Perspective from southwestern coastal region of Bangladesh. Food security and risk reduction in Bangladesh. Umma Habiba, M A Abedin, Abu Wali Raghieb Hassan and Rajib Shaw (Eds.). Springer, Japan, pp 187-212, DOI: 10.1007/978-4-431-55411-0\_11.
17. **M A Abedin**, and R Shaw. **2013**. Arsenic Contamination in Bangladesh: Contemporary Alarm and Future Strategy. Disaster Risk Reduction Approaches in Bangladesh. Rajib Shaw, Fuad Mallick, Aminul Islam (eds.). pp. 191-216. Doi. 10.1007/978-4-431-54252-0\_9, Springer, Japan.
18. **M A Abedin**, U Habiba and R Shaw. **2013**. Gender and Climate Change: Impacts and Coping Mechanisms of Women and Special Vulnerable Groups. Climate Change Adaptation Actions in Bangladesh. Rajib Shaw, Fuad Mallick, Aminul Islam (eds.). pp 165-184. Doi. 10.1007/978-4-431-54249-0\_10, Springer, Japan.
19. **M A Abedin** and R Shaw. **2013**. Agricultural Adaptation in Coastal Zone of Bangladesh. Climate Change Adaptation Actions in Bangladesh. Rajib Shaw, Fuad Mallick, Aminul Islam (eds.). pp 207-225. Doi. 10.1007/978-4-431-54249-0\_12, Springer, Japan
20. **M A Abedin** and R Shaw. **2013**. Global Context of Arsenic Contamination in Groundwater Aquifers. Water insecurity: A social dilemma. M A Abedin, Umma Habiba and Rajib Shaw (Eds.). Emerald Publishers, UK. Vol. 13: 23-49. doi:10.1108/S2040-7262(2013)0000013008
21. **M A Abedin** and R Shaw. **2013**. Community Level Arsenic Mitigation Practices in Southwestern part of Bangladesh. Water insecurity: A social dilemma. M A Abedin, Umma Habiba and Rajib Shaw (Eds.). Emerald Publishers, UK. Vol. 13: 51-73. doi:10.1108/S2040-7262(2013)0000013009
22. **M A Abedin**, U Habiba and R Shaw. **2013**. Salinity Scenario in Mekong, Ganges and Indus River Delta. Water insecurity: A social dilemma. M A Abedin, Umma Habiba and Rajib Shaw (Eds.). Emerald Publishers, UK. Vol. 13: 115-138. doi:10.1108/S2040-7262(2013)0000013012
23. M A Abedin, U Habiba and R Shaw. **2013**. Lessons, Challenges and Future Perspective of Water I Water insecurity: A social dilemma. M A Abedin, Umma Habiba and Rajib Shaw (Eds.). Emerald Publishers, UK. Vol. 13: 287-303. doi:10.1108/S2040-7262(2013)0000013018
24. U Habiba, **M A Abedin** and R Shaw. **2013**. Salinity Induced Livelihood Stress in Southwestern part of Bangladesh Water insecurity: A social dilemma. M A Abedin, Umma Habiba and Rajib Shaw (Eds.). Emerald Publishers, UK. Vol. 13: 139-165. doi:10.1108/S2040-7262(2013)0000013013
25. U Habiba, **M A Abedin** and R Shaw. **2013**. Defining Water Insecurity. Water insecurity: A social dilemma. M A Abedin, Umma Habiba and Rajib Shaw (Eds.). Emerald Publishers, UK. Vol. 13: 3-20. doi:10.1108/S2040-7262(2013)0000013007
26. U Habiba, **M A Abedin**, and R Shaw. **2013**. Disaster Education in Bangladesh: Opportunities and Challenges. Disaster Risk Reduction Approaches in Bangladesh. Rajib Shaw, Fuad Mallick, Aminul Islam (eds.). pp 307-330. Doi. 10.1007/978-4-431-54252-0\_14, Springer, Japan.
27. U Habiba, R Shaw and **M A Abedin**. **2013**. Community-Based Disaster Risk Reduction Approaches in Bangladesh. Disaster Risk Reduction Approaches in Bangladesh. Rajib Shaw, Fuad Mallick, Aminul Islam (eds.). pp 259-279. Doi. 10.1007/978-4-431-54252-0\_12, Springer, Japan.
28. **M A Abedin**, U Habiba and R Shaw. **2012**. Impacts of Salinity, Arsenic and Drought in South-western Bangladesh. Environment Disaster Linkages: Rajib Shaw and Tran Phong (eds.). Emerald Publishers, UK. Vol. 9: 165-193. ISSN: 2040-7262/doi:10.1108/S2040-7262(2012)0000009016.

**Proceedings:**

1. Hosenuzzaman, M; Kibria, M G and **Abedin, M A. 2023.** Vulnerability Assessment of Landslide Prone Coastal Hilly Areas of Bangladesh under Climate Extremes". The 7th International Symposium on Natural Hazard-Triggered Technological Accidents (Natech 2023), Chengdu, **China**.
2. **M A Abedin**, U Habiba, R Rahman and R Shaw. **2018.** Investigating the exercise of ICTs for 2017 flash flood management in haor areas of Bangladesh. *12<sup>th</sup> International Symposium on Ecohydraulics*, Tokyo, Japan.
3. **M A Abedin** and Rajib Shaw. **2013.** Integrated Community Based Risk Reduction Approach of Water Scarcity: Perspective from Salinity, Arsenic and Drought Impacts in Southwestern Part of Bangladesh. Proceeding of 9th Annual International Conference of the International Institute for Infrastructure Renewal and Reconstruction, Queensland University of Technology, Brisbane, Australia. pp E1.1. 1-8. ISBN Number 978-1-921897-73-3.
4. **M A Abedin** and Rajib Shaw. **2013.** Risk assessment of water scarcity: Perspective from salinity, arsenic and drought impacts in southwestern part of Bangladesh. Regional Conference of the International Geographical Union, Kyoto, Japan. (Abstract accepted).
5. **M A Abedin** and Rajib Shaw. **2012.** Safe water adaptability for salinity, arsenic and drought risks in southwestern Bangladesh. Proceeding of 4th International Disaster and Risk Conference IDRC Davos, Switzerland. pp 11-14.
6. **M A Abedin**, Toru Inui, Takeshi Katsumi and Masashi Kamon. **2010.** Removal of arsenic from Groundwater by sand and zero valent iron mixture: Batch and column study. Sixth International Congress on Environmental Geotechnics. The Indian Geotechnical Society, New Delhi, India, pp. 840-846. ISBN: 13:978-0-07-070716-0.
7. **M A Abedin**, Takeshi Katsumi, Toru Inui and Masashi Kamon. **2010.** Performance of Sand and Zero valent iron mixture for the treatment of naturally arsenic contaminated groundwater: Laboratory column studies and solid phase characterization. Proceeding of 9th International Conference on Geo-Environmental Engineering, Seoul National University, Seoul, Korea, pp. 139-144.
8. **M A Abedin**, Takeshi Katsumi, Toru Inui and Masashi Kamon. **2010.** Efficiency of sand and zero valent iron mixture bed to remove arsenic from naturally contaminated groundwater. 2nd International Symposium on Health Hazards of Arsenic Contamination of Groundwater and its Countermeasure, University of Miyazaki, Miyazaki, Japan, pp. 161-165.
9. **M A Abedin**, Takeshi Katsumi, Toru Inui and Masashi Kamon. **2010.** Arsenic removal from groundwater using zero valent iron in presence of iron and phosphorus. The 45th Japan National Conference on Geotechnical Engineering, The Japanese Geotechnical Society, Japan, pp. 1935-1936.
10. **M A Abedin**, Takeshi Katsumi and Toru Inui. **2009.** Column experiment using zero valent iron to remove arsenic from groundwater. Proceeding of International Joint Symposium on Geodisaster Prevention and Geoenvironment in Asia. N. Yasufuku, K. Omine, T. Mukunoki and K. Kasama (eds.), Fukuoka, Japan, pp. 199-204. ISBN: 978-4-903554-56-3.
11. **M A Abedin**, Takeshi Katsumi, Toru Inui and Masashi Kamon. **2009.** Zero valent iron to remove the arsenic contamination from natural groundwater: Batch and column experiment, *Advances in Environmental Geotechnics – Proceedings of the International Symposium on Geoenvironmental Engineering*, China, Y. Chen, X. Tang, and Z. Zhan (eds.), Springer and Zhejiang University Press, pp.515-520. ISBN: 978-7-308-06597-9.
12. **M A Abedin**, Takeshi Katsumi and Toru Inui. **2009.** Remediation of natural arsenic contamination in groundwater using zero valent iron. *Annals of Disas. Prev. Res. Inst.*, Kyoto Univ., Kyoto, Japan, No. 52B, 365-370. <http://www.dpri.kyoto-u.ac.jp/nenpo/no52/ronbunB/a52b0p38.pdf>
13. **M A Abedin**, Takeshi Katsumi, Toru Inui and Masashi Kamon. **2009.** Arsenic mitigation in groundwater using zero valent iron technology. Proceeding of 9th Canada-France-Japan-Korea Conference on Geo-environmental Engineering, Vancouver, Canada. <http://gee2009.civil.ubc.ca/GEE2009-Vancouver%20Canada%20Abstract%20Proceeding.pdf>.
14. **M A Abedin**, Takeshi Katsumi, Toru Inui and Masashi Kamon. **2009.** Batch and column experiments on the removal of the arsenic contamination from natural groundwater using zero valent iron. *Proceedings of the 3rd Japan-Malaysia Symposium on Geohazards and Geoenvironmental Engineering-Geo technical and Ecological Environmental Management for Global Sustainability*, Kyoto, Japan, pp. 119-124.
15. **M A Abedin**, Takeshi Katsumi, Masashi Kamon and Toru Inui. **2008.** Arsenic disaster in Bangladesh and its impact on human health and food chain. Proceeding of the 4th Vietnamese & Japanese Students' Scientific Exchange Conference. Kyoto, Japan, pp.267-268.
16. **M A Abedin**, Takeshi Katsumi, Toru Inui and Masashi Kamon. **2008.** Remediation of arsenic from naturally contaminated groundwater: An overview. Proceeding of the Eighth Japan-Korea-France Joint Seminar on Geo-environmental Engineering. Kyoto, Japan, pp. 149-154.
17. U Habiba and **M A Abedin. 2006.** Genetic study on yield, biomass and nitrogen use efficiency of spring wheat. *International Symposium on Plant Nutrition Meets Plant Breeding*, University of Hohenheim, Stuttgart, Germany. (Abstract accepted).