

## Summer Field School [Online] on MOUNTAIN ECOSYSTEMS AND RESOURCE MANAGEMENT Ivano-Frankivsk Region, Ukraine :: 19-28 September, 2021

## DELEGATE PARTICIPANT'S PROFILE



Highest Education Personal Statement

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Ph.D. (Material Science)

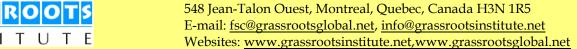
Dear august colleagues, I would like to say a few words in order to present myself as the delegate participant for the forthcoming Summer School on 'Mountain Ecosystems and Resource Management'.

I am working as an Associate Professor of the Department of Applied Chemistry and Chemical Engineering (ACCE), University of Chittagong (CU) where I have been a faculty member since 2012. I worked as the Head of the Department of Applied Chemistry and Chemical Engineering, CU from 2018 to 2021. At present, I am also working as an Additional Director of the Institutional Quality Assurance Cell (IQAC), CU. Moreover, I am a member of the Library Management Committee of CU. I obtained M.Sc. from Islamic University, Kushtia, Bangladesh (2005) and earned my PhD in Engineering, Department of Material Science, University of Tsukuba, Japan at 2011. I have total of 32 research publications to my account in peer-reviewed journals and scientific conferences. I was awarded Japanese Govt. Scholarship (2007) as well as obtained DST fellowship (2020) of India. Besides, I have 14 projects that are running, and others five have been completed. My field of interest includes- Bio-Polymers, Enzyme Chemistry, Material Chemistry and Nano-Chemistry, Green Synthesis, and Environmental Education giving the importance of water quality. I established Biomaterial Research Laboratory (BRL) at the Department which



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was financed by the Ministry of Education (MoE), Bangladesh
(2015-2018). I am also the Principal Investigator of the laboratory.
My group has research collaboration (2019-2021) with the QAEHS,
The University of Queensland, Australia and others. I worked
(2019-2020) as an Editorial Board member of the Chittagong University Journal of Sciences (CUJS). I am a Life Member of
Bangladesh Chemical Society (BCS), and Bangladesh Society of
Biochemistry and Molecular Biology (BSBMB). Furthermore, I am
also a general member of Bangladesh Nano Society (BNS). I
attended an intensive training program on 'Supply chain security
in the pharmaceutical industry" jointly sponsored by CSIR-NEIST
(Assam, India), CSIR-CLRI (Chennai, India) and PNNL (WA,
USA), USDA-CSP (Washington DC, USA), CRDF Global
(Arlington, USA) at 2020. At 2021, I was trained on Chemical
Safety and Security in Bangladesh, jointly arranged by USDA-CSP
(Washington DC, USA), CRDF Global (Arlington, USA) and BUET,
Bangladesh. I am also involved in various social activities. I am a
founder president of the Cultural Society of Chittagong University
(CSCU) and an active member of Bangabondhu Parisad,
Chittagong District.  Groundwater Pollution in Bangladesh: A Review
Groundwiter I offution in Dungtauesn. A Review
Groundwater pollution; Physico-chemical; Trace Metals;
Bacteriological; Pesticides; Health risk; Bangladesh
Groundwater is the main source for drinking and irrigation
purposes in Bangladesh. However, groundwater is polluted
continuously which is the main obstacles. Now-a-days, Bangladesh
is moving towards industrial revolution in a considerable speed.
To illustrate the total scenario of the groundwater pollution in
Bangladesh specially in the last two decades, about eighty articles,
conference articles and reports published in national and
international journals, books have been reviewed in this paper and also discussed on pollution sources, health impact assessment and
future perspective. Different factors such as physico-chemicals,
trace metals, microorganisms and pesticides are responsible for
groundwater pollution. Among them arsenic (As) contamination is





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	carcinogenic risk through oral ingestion of water was substantially increased. On the other hand, a large number of peoples were affected due to waterborne diseases governed by microbial contamination. Geogenic and anthropogenic sources, height of well and geographical factors might affect the groundwater for
	pollution. Anthropogenic sources like untreated industrial effluent, hospital and pharmaceutical waste, domestic waste and agricultural activities are the main influencer to generate pollution in groundwater. Policy makers should consider this issue immediately and take precautionary steps.
More Information (weblinks)	https://cu.ac.bd/public_profile/index.php?ein=4982 https://acce.cu.ac.bd/faculty-members/6 https://acce.cu.ac.bd/accelab/brl-sumongangulilab https://scholar.google.com/citations?user=lXRkXzQAAAAJ&hl= en https://www.researchgate.net/profile/Sumon-Ganguli-2 https://publons.com/researcher/4364352/sumon-ganguli-phd