

CURRICULUM VITAE

PROF. (DR.) NIMAI CHANRDA SAHA

M.Sc., PhD., D.Sc. (FZS, FZSI, FZSB, FISSA)



PERSONAL INFORMATION

NAME : NIMAI CHNDRA SAHA
FATHER'S NAME : ALOKE NATH SAHA
MOTHER'S NAME : DHANU RANI SAHA
DATEOFBIRTH : 29TH March, 1960
PLACE OF BIRTH : BARAMPUR, KATWA, WEST BENGAL
BLOODGROUP : O NEGATIVE
GENDER : MALE
MARITALSTATUS : MARRIED
NATIONALITY : INDIAN
RELIGION : HINDU
CATEGORY : SCHEDULED CASTE
SUB CASTE : SUNRI
LANGUAGES COMMUNICATION: BENGALI, ENGLISH, HINDI
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PERMANENT ADDRESS : A-11/322, KALYANI, P.O.- KALYANI, DIST-
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PRESENT ADDRESS : PROFESSOR (WBSES), HEAD OF THE DEPT.,
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Scopus <https://www.scopus.com/authid/detail.uri?authorId=55108195200>
ResearchGate <https://www.researchgate.net/profile/Nimai-Saha-3>
Vidwan <https://vidwan.inflibnet.ac.in/profile/184896>
Web of Science <https://publons.com/researcher/4100145/nimai-chandrasaha/>

EDUCATION

Name of the Degree	Subject	University	Year of Passing	Remarks
D.Sc.	Zoology	Raiganj University	2021	
	Title of D.Sc. Thesis - Toxicity of some Commonly found Chemicals in the Industrial Effluents, Sewage and Trade Wastes to Fish and Aquatic Ecosystem and their Bioremediation			
Ph.D.	Zoology	University of Kalyani	1992	
	Title of PhD. Thesis: Effects of Quinine Factory Wastes on Fish and Aquatic Ecosystem			
M.Sc.	Zoology	University of Kalyani	1982	I (1 ST in First Class)
B.Sc. (Hons.)	Zoology	University of Kalyani	1980	
University Entrance Examination (Science)	Physics, Chemistry, Mathematics, Biology, Bengali, English	University of Burdwan	1976	
School Final Examination	Physical Sc., Life Sc., History, Geography, Bengali, English, Mathematics, Eco & Civics	West Bengal Board of Secondary Education	1975	

HONOR AND AWARD

Sl.	Name of the Award	Institution/Organization	Date
1	Merit Certificate for Standing First in First Class in M.Sc. Examination	University of Kalyani, West Bengal	1982
2	Fellow of Society of Environmental Sciences (F.S.E.Sc.) for Outstanding Contribution in the Field of Environmental Sciences	The Society of Environmental Science, Dumka, Jharkhand, India	2003
3	Certificate of Excellence for valuable Contribution for the Academic Advancement of the Department of Zoology	Presidency College, West Bengal, India	2010
4	Fellow of the Zoological Society (FZS) for Outstanding Contribution in the Field of Zoology	Zoological Society, Calcutta, West Bengal, India	2016
5	Fellow of the Zoological Society of India (FZSI) for Outstanding Contribution in the Field of Zoology	Zoological Society of India (FZSI): Gaya, India	2018
6	B.C. Guha Memorial Award for Excellent Lecture	Indian Science News Association, Science and Culture, Kolkata, West Bengal	2022
7	Fellow of the Zoological Society of Bangladesh (FZSB)	Zoological Society of Bangladesh	2022

8	2023: VIVEK JYOTI ANANYA SAMMAN	Swami Vivekananda University, Barrackpore, for outstanding contribution in the field of Education, Research and Administration.	2023
9	2024: Fellow of Indian Social Science Academy (FISSA)	Indian Social Science Academy	2024

TEACHING AND ADMINISTRATIVE EXPERIENCES

1. As Lecturer & Reader: **18 years 08 months** (15.06.1985 - 31.05.2002 & 18.11.2003 - 10.08.2005)
2. As Principal: **06 years 7 months** (01.06.2002 - 17.11.2003 & 11.08.2005 - 04.10.2010)
3. As Professor: **13 years 6 months** (since 05.10.2010 – till date)
4. As Director of Public Instruction (DPI), Govt. of West Bengal: **02 years** (09.10.2014 – 31.10.2016)
5. As Vice Chancellor, The University of Burdwan: **6 years 6 month 26 days**

Position Held	Organization/ Institution	Date	Period of Service
Professor and Head (WBSSES)	Bidhannagar College (Govt.), Salt Lake, Kolkata-64, West Bengal	27-05-2023 (Afternoon) to Till Date	-----
Vice Chancellor	The University of Burdwan	28-02-2023 (afternoon) to 27-05-2023 (Afternoon)	3 Months
Vice Chancellor	The University of Burdwan	26-02-2021 (Afternoon) to 28-02-2023 (afternoon)	2 years 2days
Vice Chancellor	The University of Burdwan	01-11-2016 to 26-02-2021 (Afternoon)	4 years 3 months, 25 days
Professor and Director of Public Instruction (WBSSES)	Education Directorate, Bikash Bhavan, Government of West Bengal	01.01.2015 to 31.10.2016 (Afternoon)	1 year 10 months
Professor and Director of Public Instruction as Additional duty (WBSSES)	Education Directorate, Bikash Bhavan, Government of West Bengal	09.10.2014 to 31.12.2014 (Afternoon)	2 months 22 days
Professor and Additional Director of Public Instruction (WBSSES),	Education Directorate, Bikash Bhavan, Government of West Bengal	23.07.2013 to 31.12.2014	1 years 5 months 8 days
Professor and Head (WBSSES)	P.G. Dept. of Zoology, Barasat Govt. College, West Bengal	05.10.10 to 22.07.2013	2 years 9 months 17 days
Principal (WBSSES)	Krishnagar Govt. College, Krishnagar, Nadia, West Bengal	14.01.2009 to 04.10.2010	1 year 8 months 20 days
Principal (WBSSES)	Jhargram Raj College, Jhargram, West Bengal	11.08.2005 to 13.01.2009	3 years 5 months 2 days
Reader in Zoology (WBES)	Presidency College, Kolkata, West Bengal	18.11.2003 to 10.08.2005	1 year 8 months 22 days
Principal	Haringhata Mahavidyalaya, Haringhata, Nadia, West Bengal (On Lien)	01.06.2002 to 17.11.2003	1 year 5 months 16 days

Reader in Zoology (WBES)	Presidency College, Kolkata, West Bengal	07.04.1999 to 31.05.2002	3 years, 1 month, 24 days
Reader in Zoology (WBES)	Jhargram Raj College, Jhargram, West Bengal.	15.06.1998 to 05.04.1999	9 months 20 days
Assistant Professor (Senior Scale) in Zoology (WBES)	Jhargram Raj College, Jhargram, West Bengal.	05.12.1992 to 14.06.1998	5 years 6 months 9 days
Lecturer in Zoology (WBES)	Jhargram Raj College, Jhargram, West Bengal.	07.07.1989 to 04.12.1992	3 years 4 months 28 days
Lecturer in Zoology (WBES)	A.B.N. Seal College, Cooch Behar, West Bengal.	15.06.1985 to 03.07.1989	4 years 18 days

RESEARCH SUPERVISION

Sl.	Name of the Scholar	Institution	Title of the PhD. Thesis	Date of Award
1	Pramita Sharma	The University of Burdwan	Toxicity of selective chemicals from sewage and factory effluents on some aquatic organisms and their bioremediation.	08-12-2023
2	Santosh Kumar Giri	Sidho-Kanho-Birsha University	A study on the role of commonly occurring plant extracts in modulating pesticide induced toxicity to fish and fish food organisms	- -2023
3	Sharmistha Medda	The University of Burdwan	Effects of Some Commonly Used Pesticides on <i>Oreochromis Mossambicus</i> and <i>Tubifex Tubifex</i> with Special Emphasis on Bioremediation	19-05-2023
4	Triparna Chakraborty	The University of Burdwan	Studies on the Ecological Health of some Wetlands Located in the Districts of North 24 Parganas and Hooghly, West Bengal, India	19-05-2023
5	Shruti Ghosh	The University of Burdwan	Toxic Effects of some Commonly Occurring Surfactants on Fish and other Aquatic Organisms along with their Phytoremediation	10-05-2023
6	Arnab Chatterjee	The University of Burdwan	A Study on the Toxic Effects of some Commonly used Pesticides Profenofos, λ Cyhalothrin and Biopesticide Azadirachtin on <i>Tubifex Tubifex</i> (Muller) and <i>Cyprinus Carpio</i> L. and their Amelioration	16-02-2022
7	Chandan Sarkar	The University of Burdwan	Studies on the Effects of Triazophos, Spinosad, Cypermethrin on some Aquatic Organisms and Evaluation of Ecology Health of Wetlands through Water Quality Assessment	09-04-2022
8	Ritwick Bhattacharya	The University of Burdwan	A Study on the Toxic Effects of some Commonly used Surfactants on Fish and Fish Food Organisms and their Amelioration	28-06-2022
9	Suman Bej	The University of Burdwan	Effect of Commonly Used Pesticides Alpha-Cypermethrin Chlorpyrifos and Imidacloprid on	28-06-2022

			Branchiura Sowerbyi, Bellamya Bengalensis and Cyprinus Carpio	
10	Papiya Datta	The University of Burdwan	Efficacy of Combined Effect of Zingerone and Cinnamaldehyde in the Sustenance of Spleen Physiology After Chronic Lead Exposure on Swiss Albino Mice (Mus Musculus)	05-09-2022
11	Arijit De	The University of Burdwan	A Study on the Seasonal Variation of Physicochemical Parameters and the Prokaryotic Community of Benthic Soil of an Aquaculture Farm in East Kolkata Wetlands for the Determination of Ecological Health Status	27-12-2021
12	Priti Mondal	The University of Burdwan	Association Studies of Susceptible Genetic Variants of IL-18 and TGF- β 1 with House Dust Mites Induces Asthma Among Population of West Bengal, India	30-11-2022
13	Subhajit Saha	The University of Burdwan	Study on the Effects of some Commonly Used New Generation Pesticides on Fish and Fish Food Organisms and the Role of Agricultural Runoff in the Change of Water Quality and Piscine Diversity of Kankana Baor and Beri Baor, North 24 Parganas, West Bengal	13-04-2021
14	Souryadeep Mukherjee	The University of Burdwan	Studies on the Effects of Chronic Benzene Exposure to Fish and Mammalian Models along with its Bioremediation	2020
15	Dip Mukherjee	West Bengal State University	Toxicity of Pulp and Paper mill Effluents and some of their Ingredients on Fish, Fish Food Organisms and Aquatic Ecosystem along with Management of Effluent Quality	17-03-2016
16	Kishore Dhara	University of Kalyani	Hazardous Impact of Fly Ash and some of its Ingredients on Fish, Fish Food Organisms and Aquatic Ecosystem	04-02-2015
17	Arpan Kumar Maiti	University of Kalyani	A Study on the Toxicity of some Metals Present in Fly Ash on Piscine and Mammalian Models	03-09-2010
18	Falguni Bhunia	University of Kalyani	Studies on the Acute and Chronic Toxicity of some Hazardous Chemicals to Fish, Fish Food Organisms and Aquatic Ecosystem	2002

RESEARCH PROJECT

Sl. No	Title	Amount	Start Date	End Date	Role as PI/CO-PI	Agency/ Sponsored
1	Prebiotic Feed Supplement for Growth Improvement of Indian Major Carps, Labeo Rohita, Cirrhinus mrigala and	36,26,120/-	18-06-2019	17-06-2022	Project Co-ordinator	DBT, Govt. of India [BT/PR28574/AA Q/3/920/2018]

	Catla Catla under Composite Culture System: A Gut Microbiome and Nutrigenomics based Approach					
2	Breeding Habitat Characterization of Filarial Vector Culex Quinquefasciatus in the Coastal Areas of Digha and its Bio-Environmental Management	14 lakh	19-02-2019	18-02-2022	Co-PI	DHESTBT, WB [213(Sanc.)-ST/P/S&T/1G-19/2018]
3	Studies on the Status and Distribution Patterns of Microplastics in the Aquatic Ecosystems of Hooghly River and their Effects on Food Chain	12.79.000/-	25-02-2019	24-02-2022	Co-PI	DHESTBT, WB [253(Sanc.)-ST/P/S&T/5G-10/2018]
4	Bioremediation of Polycyclic Aromatic Hydrocarbons (PAHs)-Contamination at Digha Coastal Water (West Bengal)	9,16,300/-	13-02-2019	12-02-2022	Co-PI	DHESTBT, WB [172(Sanc.)-ST/P/S&T/5G-18/2018]
5	Exploring the Use of Plant as Galactagogues by Tribal Population of Purulia and West Midnapur District and their Validation	19 lakhs	25-03-2018	24-03-2021	Co-PI	DHESTBT, WB [261(Sanc)/FT/P/S&T/1G-59/2017]
6	Institutional Project	7.1 crore	01-04-2017	31-03-2021	Team Leader	DST PURSE Phase 2
7	A Research for the Modulatory Role of some Plants of Common Occurrence in Chronic Pesticide Pollution in Aquatic Biota	1615400/-	30-03-2015	29-03-2018	PI	DST, WB [1265(Sanc.)-ST/P/S&T/5G-3/13]

FOREIGN VISITS IN DIFFERENT EDUCATIONAL PURPOSE

Sl.	Purpose/Issue	Country	Place Visit	Date
1	21 th National Conference and Annual General Meeting (AGM) 2018 of the Zoological Society of Bangladesh (ZSB) Bangladesh; and Delivered Lecture on the Conference Theme Conservation of Animal Habitats for Sustainable Biodiversity Organized by ZSB and Dept. of Zoology, University of Dhaka, Bangladesh.	Bangladesh	Dhaka	7-8 th December, 2018
2	Attaining 20 th International Biennial Conference and AGM 2017 of the Zoological Society of Bangladesh (ZSB); and Delivered Lecture on the Conference Theme The Blue Economy:	Bangladesh	Dhaka	8-9 th December, 2017

	Bangladesh Perspective organized by ZSB and Dept. of Zoology, University of Dhaka, Bangladesh.			
3	Visited Dept. of Statistics, Seoul National University, Seoul, South Korea as a Resource person during January 06-11, 2020.	South Korea	Seoul	6-11, January, 2020

SPECIAL INTEREST AND MAJOR CONTRIBUTION IN RESEARCH

During 38 years of research career, I made significant research contributions towards the advancement of science and technology especially in the **field of animal sciences** for last three decades besides teaching at the post graduate level. My primary area of research includes **Zoology, Fisheries Sciences, Aquatic Toxicology, Ecology and Environmental Sciences.**

LITERARY RESEARCH ACTIVITY IN DIFFERENT INDEXED JOURNALS

Sl.	Role	Journal	Publisher	ISSN	Indexed
1	Guest Editor	Science and Culture	Indian Science News Association	0036-8156	Web of Science,
2	Reviewer	Science and Culture	Indian Science News Association	0036-8156	Web of Science,
3	Reviewer	Aquaculture	Elsevier	E 1873-5622 P 0044-8486	Scopus, BIOSIS Citation Index
4	Reviewer	Heliyon	Cell Press	2405-8440	PubMed, Scopus, Web of Science
5	Reviewer	Journal of Environmental Biology	Triveni Enterprises	P 0254-8704 E 2394-0379	PubMed, Medline, Scopus, Web of Science
6	Reviewer	PJZ	ZSP	0030-9923	Scopus, Web of Science, Cambridge Scientific Abstracts

BEST 10 HIGH IMPACT RESEARCH ARTICLES

Sl.	Title	Journal	DOI	Publisher	Indexing	Impact Factor
1	Behavioral Toxicity, Histopathological Alterations and Oxidative Stress in Tubifex Tubifex Exposed to Aromatic carboxylic Acids- Acetic Acid and Benzoic Acid: A comparative Time-Dependent Toxicity Assessment	Science of The Total Environment	10.1016/j.scitotenv.2023	Elsevier	PubMed/Medline, Web of Science, Scopus	10.752
2	Abiotic Factors and Heavy Metals Defining Eco-Physiological Niche in Fish	Science of The Total Environment	10.1016/j.scitotenv.2023.162328	Elsevier	PubMed/Medline, Web of Science, Scopus	10.752

3	Antioxidant Enzyme Activity and Pathophysiological Responses in the Freshwater Walking Catfish, <i>Clarias Batrachus</i> Linn. Under Sub-Chronic and Chronic Exposures to the Neonicotinoid, Thiamethoxam®	Science of The Total Environment	10.1016/j.scitotenv.2022.155716	Elsevier	PubMed/Medline, Web of Science, Scopus	10.752
4	RGS11-CaMKII Complex Mediated Redox Control Attenuates Chemotherapy-Induced Cardiac Fibrosis	Redox Biology	10.1016/j.redox.2022.102487	Elsevier	PubMed/Medline, Web of Science, Scopus	10.7
5	Fluorene-induced stress in the benthic oligochaete <i>Tubifex tubifex</i> : A multi-biomarker assessment of toxicological pathways and mechanisms under acute and subchronic exposures.	Chemosphere	10.1016/j.chemosphere.2024.141412	Elsevier	PubMed/Medline, Web of Science, Scopus	8.8
6	Melatonin Ameliorates Lipopolysaccharide Induced Brain Inflammation through Modulation of Oxidative Status and Diminution of Cytokine Rush in <i>Danio Rerio</i>	Environmental Toxicology and Pharmacology	10.1016/j.etap.2022.103983	Elsevier	Scopus, Embase	5.785
7	Mechanistic Insights to Lactic and Formic Acid Toxicity on Benthic Oligochaete Worm <i>Tubifex Tubifex</i>	Environmental Science and Pollution Research	10.1007/s11356-022-21361-0	Springer	Medline, Web of Science, Scopus	5.8
8	Assessment of Biochemical, Hematological and Behavioral Biomarkers of <i>Cyprinus carpio</i> on Exposure to a type-II Pyrethroid Insecticide Alpha-Cypermethrin	Environmental Toxicology and Pharmacology	10.1016/j.etap.2021.103717	Elsevier	Scopus, Embase	5.785
9	λ Cyhalothrin Induced Toxicity and Potential Attenuation of Hematological, Biochemical, Enzymological and Stress Biomarkers in <i>Cyprinus carpio</i> L. at Environmentally Relevant Concentrations: A Multiple Biomarker Approach	Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology	10.1016/j.cbpc.2021.109164	Elsevier	PubMed/Medline, Web of Science, Scopus	4.52
10	Environmental Arsenic and Selenium Contamination and Approaches Towards its Bioremediation through the Exploration of Microbial Adaptations: A Review	Pedosphere	10.1016/S1002-0160(19)60829-5	Elsevier	Cambridge Scientific Abstracts, Science Citation Index Expanded	5.7

Indexed in Google Scholar	200 Documents	Citations	1851	h-Index	20
Indexed in Scopus	93 Documents	Citations	1029	h-Index	16
Indexed in Web of Science	81 Documents	Citations	763	h-Index	16
Indexed in PubMed	51 Documents				

- 1 Medda S, Bhattacharya R, Pal S, Saha NC. Toxic Impact of Sheathmar on *Oreochromis mossambicus*: A Comprehensive Biomarker Analysis. *Appl Biochem Biotechnol.* 2024 Mar 13. doi: 10.1007/s12010-024-04853-2. **Impact Factor:3.0**
- 2 Sharma, P., Chukwuka, AV., Chatterjee S., Bhowmick S., Mistri TK., Saha, NC. Fluorene-induced stress in the benthic oligochaete *Tubifex tubifex*: A multi-biomarker assessment of toxicological pathways and mechanisms under acute and subchronic exposures. *Chemosphere* 352 (2024) 141412 <https://doi.org/10.1016/j.chemosphere.2024.141412>. **Impact Factor:8.8**
- 3 Saha, NC., Banerjee, P., Chatterjee, A., Bhattacharya, R., Saha, S., Pastorino, P. Haematological, biochemical, enzymological changes and mitochondrial dysfunction of liver in freshwater climbing perch *Anabas testudineus* during their acute and chronic exposure to sodium fluoride. *Environmental Toxicology and Pharmacology*, (2024) <https://doi.org/10.1080/02757540.2023.2263439>. **Impact Factor:4.3**
- 4 Hoque A., Ghosh S., Adhurjya D., Chatterjee P., Samajdar I., Mukherjee D., Dhara K., Saha NC., Piccione G., Multisanti CR., Saha S., Faggio C. Exploring the impact of zinc oxide nanoparticles on fish and fish-food organisms: A review. *Aquaculture Reports*, 36, 102038, (2024). <https://doi.org/10.1016/j.aqrep.2024.102038> **Impact Factor:3.7**
- 5 Chakraborty, D., Saha, S., Podder, S., Saha, N. C., & Faggio, C. (2024). Generation of oxidative stress in freshwater oligochaete *Tubifex tubifex* due to exposure to aniline: time and concentration dependent toxicity assessment. *Chemistry and Ecology*, 40(3), 260–275. <https://doi.org/10.1080/02757540.2024.2304806> **Impact Factor:2.6**
- 6 Saha S., Chukwuka AV, Saha NC, Faggio C, Sabet HM. Natural and Synthetic Immunomodulators: Inferences for Stress Responses in Aquaculture Fish. *Immunomodulators in Aquaculture and Fish Health*, 18-28. (Book chapter)
- 7 Sharma, P., Chukwuka, AV., Chatterjee S., Chakraborty D., Saha, NC. Carboxylic acid-induced freshwater acidification effects on behavior and operculum ultrastructure in the gastropod mollusc *Bellamya bengalensis*. *Chemistry and Ecology*, (2024) <https://doi.org/10.1080/02757540.2023.2287481>. **Impact Factor:2.5**
- 8 Saha, S., Saha, S., Mistri, a., Saha, NC. Antioxidant enzyme activity and pathophysiological consequences in the sludge worm *Tubifex tubifex* under acute and sub-lethal exposures to the fungicide Tilt ®. *Pesticide Biochemistry and Physiology*, (2024) <https://doi.org/10.1016/j.pestbp.2023.105738>. **Impact Factor:4.7**
- 9 Majumdar, M., Saha, NC., Banerjee, P., Bhattacharya, T., Saha, S. Acute and sub-acute toxic effects of cadmium to freshwater tropical oligochaete *Tubifex tubifex* with special reference to oxidative stress and behavioural biomarkers. *Chemistry and Ecology*, (2023) <https://doi.org/10.1080/02757540.2023.2263439>. **Impact Factor:2.5**
- 10 Sultana, S., Banerjee, P., Ganai I., Laha A., Sultana, N., Biswas, H., Saha, NC., Moitra, S., Podder S. Polymorphism in ADAM33 gene associated with asthmatics in West Bengal, India - An investigation by in-silico analysis. *World Allergy Organization Journal*, (2023) 16:100834 <http://doi.org/10.1016/j.waojou.2023.100834>. **Impact Factor: 5.516**

- 11 Das, N., Mondal, A., Saha, NC., Ghosh, S., Mandal, S. Decadal loss of above-ground biomass and subsequent potential CO₂ emission from the Sundarbans mangrove ecosystem, India. *Acta Ecologica Sinica*, (2023) <https://doi.org/10.1080/02757540.2023.2263439>. **Impact Factor:2.1**
- 12 Arghya Laha; Saibal Moitra; Himani Biswas; Nimai Chandra Saha; Sanjoy Podder. Assessment of Co-Sensitization between Pollen and Food Allergen Sources among Bengali Population, West Bengal, India. *Int Arch Allergy Immunol.* 2023;184(2):161-170. doi: 10.1159/000526707. **Impact Factor: 2.8**
- 13 Arnab sarkar, Samaresh Hansda, Tiasa Dutta, Sourav Ghoshal, Sujay Mukhopadhyay, Pranab Sarkar, Sushil kumar Mandal, Nimai Chandra Saha, Pabitra Chattapadhyay, Koushik Dhara. Endoplasmic reticulum- targeted fluorescent probes for metal-free tracking of carbon monoxide in living cells. *ScienceDirect*. Available online 15th June 2023, 134150. **Impact Factor: 5.725**
- 14 Sharma, P., Garai, P., Banerjee, P., Saha, S., Chukwuka, AV., Chatterjee, S., Saha, NC., Faggio, C. Behavioral toxicity, histopathological alterations and oxidative stress in *Tubifex tubifex* exposed to aromatic carboxylic acids- acetic acid and benzoic acid: A comparative time-dependent toxicity assessment. *Science of The Total Environment*,876, (2023). <https://doi.org/10.1016/j.scitotenv.2023.162739> **Impact Factor:10.752**
- 15 Saha N.C., Saha D. Impact of Coal Mining on Ambient Air in Respect of Global Warming: A Critical Approach. Indonesian Journal of Social and Environmental Issues. Vol-4, iss-1, pp 12-24.
- 16 Banerjee P., Garai P., Saha N.C., Saha S., Sharma P., Maiti A.K. A critical review on the effect of nitrate pollution in aquatic invertebrates and fish. *Water Air Soil Pollution.* (2023) 234:333.
- 17 Saha S., Banerjee P., Saha N.C., Chukwuka A.V. Triazophos-induced Respiratory and Behavioral Effects and Development of Adverse Outcome Pathway (AOP) for short-term Exposed Freshwater Snail, *Bellamya Bengalensis*. *Bulletin of Environmental Contamination and Toxicology* (2023) 110:94
- 18 Garai P., Sharma P., Banerjee P., Chatterjee A., Saha N.C. Formic Acid Induced Acute Toxicity and its Sublethal Effects on Growth, Behavioral Pattern and Oxidative Stress Parameters of the Freshwater Snail *Bellamya Bengalensis*. *Science and culture.* 2023, 89 (3–4) : 84-93
- 19 Saha N.C., Toxicity of Metals, Non-Metal and Metalloid to Aquatic Organisms. *Science and culture.* 2023, 89 (3–4)
- 20 Dhara, K., Das, UN., Pal, P., Saha, NC., Saha, S. Temperature-optimized, hormone-induced spawning of Asian striped dwarf catfish, *Mystus vittatus* in early-stage F1 generation. *Iran. J. Ichthyol.* (2023) 10(1): 59-77.
- 21 Moniruzzaman, M., Datta, U., Saha, NC., Bhowmick, AR., Mukherjee J., Abiotic factors and heavy metals defining eco-physiological niche in fish. *Science of The Total Environment*,874, (2023). <https://doi.org/10.1016/j.scitotenv.2023.162328> **Impact Factor:10.752**
- 22 Saha, NC. Arsenic, Selenium and Fluoride Induced Toxicity on Fish and other Aquatic Organisms – A Review. *Sci. and Cult*,89 (1–2), 2023. <https://doi.org/10.36094/sc.v89.2023.162328>
- 23 Saha, S., Dhara, K., Chukwuka, AV., Pal, P., Saha, NC., Faggio C. Sub-lethal acute effects of environmental concentrations of inorganic mercury on hematological and biochemical parameters in walking catfish, *Clarias batrachus*. *Comparative Biochemistry and Physiology Part C:Toxicology & Pharmacology*, 264, (2023) <https://doi.org/10.1016/j.cbpc.2022.109511>. **Impact Factor:4.52**
- 24 Saha, S., Saha, NC., Chatterjee. A., Banerjee, P., Garai, P., Sharma, P., Patnaik, L., Nayak, S., Dhara, K., Chukwuka, AV., Faggio C. Integrated multi-biomarker responses in Mozambique tilapia, *Oreochromis mossambicus* under acute and chronic Diazinon® exposures. *Chemistry and Ecology*, 264, (2023) <https://doi.org/10.1080/02757540.2023.2178649>. **Impact Factor:2.38**
- 25 Azadikhah, D., Yalsuyi, AM., Saha, S., Saha, NC., Faggio C. Biochemical and Pathophysiological

Responses in *Capoeta capoeta* under Lethal and Sub-Lethal Exposures of Silver Nanoparticles. *Water* **15**, 3(2023) <https://doi.org/10.3390/w15030585>. **Impact Factor: 3.53**

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S. No	Title	Author's Name	Publisher	Year of Publication
1	Bioassay Methods (Practical Manual on Environmental Analysis)	Nimai Chandra Saha	The University of Burdwan	2022
2	Mapping the Wetland of West Bengal using Geospatial Technology	Nimai Chandra Saha	The University of Burdwan	2022
3	Primary Concept of Arsenic Toxicity: An Overview. Geostatistics and Geospatial Technologies for Ground water Resources in India	Biswas S. J., Patra M.,Giri S. K.,Gorain S., Gope D., Saha N.C and Guha B.	Springer Hydrogeology	2021

4	Primary Concept of Arsenic Toxicity: An Overview	Biswas, S.J., Patra, M., Giri, S.K., Gorain, S., Gope, D., Saha, N.C. and Guha, B.	Geostatistics and Geospatial Technologies for Groundwater Resources in India	2021
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7	Experiential Learning: Analysis of Impact on Students about Literacy of Birds Conservation	Saha N.C.	Socio-Economic Challenges & Possibilities	2020
8	A Study on the Effects of Alphacypermethrin to fish, <i>Cyprinus carpio</i> (Linnaeus, 1758)	Bej S, Saha N.C.	Sustainable Management of Aquatic Resources	2018
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- 1) A new pentacoordinated ID coordination polymer of mercury(II) chloride containing as *in situ* generated didentate Schiff base: Synthesis, structure and luminescence property, Dipu Sutradhar, Habibar Chowdhury, Nimai Chandra Saha and Barindra Kumar Ghosh, National Seminar on Design, synthesis, characterization, reactivity, theoretical study and applications of different advanced functional materials, organized by Department of Chemistry, The University of Burdwan, Burdwan, December 21-23, 2017, p 85.
- 2) Acute toxicity and behavioural responses of oligochaete worm *Tubifex tubifex* to a surfactant sodium dodecyl sulphate, Ritwick Bhattacharya and Nimai Chandra Saha, submitted for poster/oral presentation, 2nd Regional Science and Technology Congress, Western Region, jointly organised by the University of Burdwan and Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal, November 16-17, 2017.
- 3) Enzymatic and behavioural studies in fresh water cat fish, *Clarias gariepinus* exposed to insecticide, Dimethoate (Rogor-EC 30%), Arnab Chatterjee, Soumendranath Chatterjee and Nimai Chandra Saha, submitted for poster/oral presentation, 2nd Regional Science and Technology Congress, Western Region, jointly organised by the University of Burdwan and Department of Higher Education, Science and Technology and Biotechnology, Government of West Bengal, November 16-17, 2017.

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- 15) Effects of fly ash pollution on fish diversity at Bhagirathi River in Murshidabad District, West Bengal in 24th All India Congress of Zoology organised by Department of Zoology, Kalyani University in collaboration with ZSI, Bodh Gaya(Page 55), 2013
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- 17) Use of fish diversity as a bioindicator for determining fly ash pollution in Bhagirathi River in the District Murshidabad, West Bengal in National Conference on Challenges in Biodiversity and Resource management organised by Department of Zoology, Kalyani University in collaboration with West Bengal Biodiversity Board(Page 30),2013
- 18) Use of water quality and fish diversity as the indicator of pollution by paper and pulp effluents of the Hooghly River in National Conference on Challenges in Biodiversity and Resource management organised by Department of Zoology, Kalyani University in collaboration with West Bengal Biodiversity Board(Page 28),2013
- 19) A study on the comparative breeding performance of *Anabas testudineus* (Bloch,1792) using piscine pituitary gland extract and Ovaprim as inducing agent in UGC sponsored two day State Level Seminar on Society-Biodiversity Interactions: Exploitation and Ethics organised by Sripat Singh College, Jiaganj, Murshidabad (Page 44),2011
- 20) Review on the parasites causing diseases in the fishes of Ganga River system (Sundarban region) with reference to histopathological changes and parasitic diversity in UGC sponsored National Level Seminar on rediscovering hundred years of journey on the field of immunology: present status of immunological research in India organised by Post Graduate Department of Zoology, Barasat Government College and West Bengal State University(Page 08),2011
- 21) Study on the comparative toxicity of nickel and zinc on the haematological parameters of *Clariasbatrachus* in UGC sponsored National Level Seminar on rediscovering hundred years of journey on the field of immunology: present status of immunological research in India(Page 08),2011
- 22) Pathophysiological studies of freshwater catfish, *Clariasbatrachus* (Linn.) exposed to mercury, a toxic fly ash ingredient in Golden Jubilee International Seminar on Researches in Zoology - Basic & Applied, Department of Zoology, The University of Burdwan organised by Post Graduate Department of Zoology, Barasat Government College and West Bengal State University(Abs. No. FSP01, Page No.41), 2010
- 23) Oxidative stress induced inhibition of rat brain Na⁺K⁺ATPase exposed to Ni²⁺ ions: involvement of lipid peroxidation & deficient mitochondrial electron transport chain activity in XXI Annual conference & Platinum Jubilee celebration of the Physiological Society of India -International conference on Integrative Physiology: Modern Perspective organised by Physiological Society of India (Abs. No. FC41 , Page No.192),2009
- 24) Role of lipid peroxidation and mitochondrial electron transport chain on the Na⁺K⁺ ATPase activity in rat brain exposed to Ni²⁺ ions in The Journal of Physiological Sciences , Proceedings of the XXXV

International Congress of Physiological Sciences (IUPS 2009)- Function of the Elements and Integration, Kyoto, Japan, The Physiological Society of Japan(Abs. No. P2PM-13-29, Page No.291), 2009

- 25) Inhibition of mammalian brain $\text{Na}^+\text{K}^+\text{ATPase}$ exposed to Zn^{2+} : Role of lipid peroxidation and mitochondrial electron transport chain activity in The Journal of Physiological Sciences, Proceedings of the XXXV International Congress of Physiological Sciences (IUPS 2009)- Function of the Elements and Integration, Kyoto, Japan, The Physiological Society of Japan(Abs. No. P3PM-13-5, Page No.384),2009
- 26) Comparative study on the breeding performance & larval survivability of *Anabas testudineus* using pituitary gland extract & ovaprim as inducing agents in 16th W.B. State Science & Technology Congress, 28th Feb to 1st March, 2009, The University of Burdwan & Department of Science & Technology, Government of West Bengal(Page No.283),2009
- 27) Simplified method of induced spawning & larval rearing of tropical air breathing catfish, *Clarias batrachus* in National Seminar on “Molecules to Man”. February 24-25, 2005, Department of Zoology, The University of Burdwan (Page No.64), 2005

PAPER PRESENTATION IN INTERNATIONAL/NATIONAL SEMINAR/CONFER.

- 1) Studies on acute and chronic toxicity of cadmium to the freshwater snail *Lymnaea acuminata* in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta Science and Culture Organisation for Youth, February 17-19, 2016(International level)
- 2) Effects of a pulp and paper mill effluent on the Hooghly River ecosystem and its fish diversity in Nadia district, West Bengal, India in 24th All India Congress of Zoology and National Seminar on Biodiversity and its management for food and environmental security and National Helminthological Congress organised by Department of Zoology, University of Kalyani, November 23-25, 2013(National Level)
- 3) Study on the comparative toxicity of Nickel and Zinc on the haematological parameters of *Clarias batrachus* in UGC sponsored National Seminar on Rediscovering 100 years of journey on the field of Immunology: Present status of Immunological Research in India organised by Barasat Govt. College, 19th& 20th September, 2011(National Level)
- 4) Review on the parasites causing diseases in the fishes of Ganga river system with reference to histopathological changes and parasitic diversity in UGC sponsored National Seminar on Rediscovering 100 years of journey on the field of Immunology: Present status of Immunological Research in India organised by Barasat Govt. College, 19th& 20th September, 2011(National level)
- 5) A study on the comparative breeding performance of *Anabas testudineus* (Bloch,1792) using piscine pituitary gland extract and Ovaprim as inducing agent in UGC sponsored Society-Biodiversity Interaction: Exploitation & Ethics organised by Sripat Singh College, 1st& 2ndAugust, 2011(State Level)
- 6) Effects of temperature and the doses of inducing agents(pituitary gland extract and Ovaprim) on fertilization, hatching rate and hatchlings' survival during induced breeding of .air breathing cat fish,

Clarias batrachus In DST sponsored Sir J.C. Bose memorial National Symposium on modern trends in animal science research and challenges of the day Organised by Presidency University, 23 -25 March, 2011 (National Level)

- 7) Use of diversity of fish fauna as an effective bioindicator for determining pollution in Bhagirathi River in Murshidabad, WB mainly due to contamination of fly ash of adjoining thermal power plant In Seminar on Biodiversity in India: Perspective, Management & Conservation Organised by Dwijendralal College, 26-02-2011 (State Level)
- 8) Acute toxicity of aniline to fish, plankton & worm In UGC sponsored Seminar on Biochemistry Organised by Kanchrapara College, 18-01-2003 to 19-01-2003 (State Level)
- 9) Micronucleus test on the peripheral erythrocytes of *Oreochromis mossambicus* exposed to liquid wastes of quinidine In National Symposium on Environmental impacts on animal & aquaculture Organised by Kalyani University, 14-05-1988 to 16-05-1988 (National level)
- 10) Acute toxicity of quinine factory effluents on fish & aquatic ecosystem In Seminar on Science Congress Organised by 74th Session of Science Congress, Bangalore, 03-01-1987 to 08-01-1987 (National level)

SEMINAR ORGANIZED AS ORGANIZING SECRETARY/CONVENER/PRESIDENT

- journey on the field of Immunology: Present status of Immunological Research in India Organised by Barasat Govt. College on 19th & 20th September, 2011
- 2) Acted as President of the UGC sponsored State level Seminar on “Metacognition” Organised by Krishnagar Government College & Krishnagar Women’s College on 08-09-2010 to 09-09-2010
 - 3) Acted as Organising Secretary of the UGC Curriculum implementation at undergraduate level on Environmental studies Organised by Krishnagar Government College & Kalyani University on 26-02-2010
 - 4) Acted as Organising Secretary of the Workshop on Application of the Knowledge of Computer in Chemical and Biological Sciences Organised by Jhargram Raj College on 23rd & 24th March, 2008
 - 5) Acted as Organising Secretary of the Principal’s Workshop on “To Strive and Sustain Quality Administration” Organised by Jhargram Raj College on 4th and 5th January, 2008
 - 6) Member of Organising Committee of the National seminar on Natural and anthropogenic hazards on Biodiversity and conservation and biotechnological approach for its remedies Organised by Vidyasagar College on 9th & 10th December, 2011

- 7) Member of Organising committee of the Seminar on 22nd National Congress of Parasitology, Department of Zoology, University of Kalyani, Kalyani, W.B. Organised by Department of Zoology, Kalyani University on 30-10-2010 to 01-11-2010.

INVITED LECTURE AND CHAIRMANSHIP IN NATIONAL/CONFERENCES

- 1) To act as resource person in delivering Keynote Address on 8th March, 2018 in the 1st Three-Day International Conference on "Frontiers in Biological, Environmental and Medical Sciences" to be held during March 08-10, 2018 at The University of Burdwan, Burdwan, India
- 2) Acted as resource person in delivering Keynote Address on 22nd February, 2018 at the Interdisciplinary (Science) National Seminar on "Science & Mankind - A Better Tomorrow" to be held on 22nd & 23rd February, 2018 at A.B.N. Seal College, Cooch Behar, West Bengal, India
- 3) Acted as a resource person in delivering the Valedictory Lecture on 3rd February, 2018 in the International Zoological Conference (INTZOOCON 2018) to commemorate the 100 years of the Department of Zoology at University of Calcutta, West Bengal, India
- 4) Acted as Chief Guest in the Inauguration Ceremony of Eastern Chapter Conference of Association of Medical Physicists of India, AMPI EC 2018 on January 20, 2018 at SINCLAIR Tourist Resort, Burdwan, West Bengal, India
- 5) Delivered Invited Lecture in Raiganj University on Blue Economy: Indo-Bangladesh Perspective, January 10, 2018.
- 6) Delivered speech as Chief Guest on Blue Economy: Bangladesh Perspective in Dhaka University, Bangladesh, December 09, 2017.
- 7) Acted as Resource Person in the National Seminar on "Genomics: Molecular to Ecosystem Level" organized by The Asiatic Society, Kolkata
- 8) Acted as Resource Person in the National Seminar on Biodiversity: Exploration, Exploitation, Conservation & Management – Vision & Mission organised by Barasat Government College in 2016
- 9) Acted as Chairperson, West Bengal Science Congress, 2016 organised at Bankura Christian College
- 10) Acted as Resource Person in the National Seminar on the Impact of Climate Change, Biodiversity and good plant protection practices on crop productivity. Organised by BCKVV in 2016
- 11) Acted as Resource Person in the National Seminar on 'From Molecules to Ecosystem – A Zoological Perspective' Organised by Rahora Ramkrishna Mission College in 2016
- 12) Acted as Resource Person in National Level UGC sponsored Seminar on Climate Change: Issues and Challenges to Society, Environment and Development. Organised by Haringhata Mahavidyalaya in 2016
- 13) Acted as Resource Person in National Level 1st Annual One Day Seminar of Indian Association of Biomedical Scientists jointly organised by IABMS, Eastern Regional Chapter and Rammohan College, Kolkata in 2016
- 14) Acted as Resource Person in National Seminar on challenges and opportunities of university administration in the 21st century organised by Netaji Subhas Open University, Kolkata in 2015
- 15) Invited Lecture as Resource person on 22-11-2015 in a National Seminar Organised by A.P.C. Roy College. Title: *Determination of LC50 or LD50 for a particular toxicant* in the workshop entitled Contemporary Laboratory and Field Experiments in Zoology
- 16) Invited Lecture as Resource person on 20-11-2015 in a National Seminar Organised by Nakshalbari College; Title: *Environment and Human Health* on DST sponsored one day seminar on Environment and Human Health

- 17) Invited Lecture as Resource Person on 09-09-2015 in a National seminar Organised by Krishnath College Title: Study on the changes in Biodiversity of Beels of Berhampore, Murshidabad, West Bengal due to pollution on one day seminar on Role of IQAC in Fostering Environmental Consciousness
- 18) Invited Lecture as Resource Person in 2014 in a National Seminar Organised by NSOU Title :Virtual Learning on Biological Dissection
- 19) Chairperson, 2013-14 in a National Seminar Organised by Department of Zoology, The University of Burdwan; Title:21st West Bengal Science & Technology Congress
- 20) Chairperson, 2013-14 in a National Seminar Organised by Department of Zoology, Kalyani University; Title:24th All India Congress of Zoology and National Seminar on Biodiversity and its management for food and environmental security and National Helminthological Congress
- 21) Delivered a Lecture on Use of water quality, floral and faunal diversity in the determination of ecological health of four beels of Murshidabad in West Bengal, India. 2012-13 Organised by Department of Zoology, Kalyani University in National Conference on Challenges in Biodiversity and Resource Management
- 22) Delivered a Lecture on Hands on training for estimation of different limnological parameters and discussion on the causes for their deviations from optimum level. 2011-12 In a Workshop on analysis of limnological parameters under DBT star College Programme Organised by Presidency University
- 23) Delivered a Lecture on Fish parasites and its control. 2010-11 in a Seminar on 22nd National Congress of Parasitology Organised by Department of Zoology, Kalyani University
- 24) Delivered a Lecture on Conservation of fish fauna with special reference to aqua sanctuary. 2010-11 In a Seminar on Conservation of fish fauna with special reference to aqua sanctuary Organised by Office of the Assistant Director of Fisheries, Murshidabad
- 25) Delivered a Lecture on Production enhancement through beel fishery, 2010-11 in a Local Seminar on Production enhancement through beel fishery Organised by Nabindoba Ramanachandpur Fishermen Cooperative Society Limited
- 26) Delivered a Lecture on Local Seminar on Pisciculture & Fishermen Community Organised by Cossimbazar Manindranagar Colony Fishermen Cooperative Society Limited
- 27) Delivered a Lecture in Training Programme on Pisciculture and ornamental fish culture and fisheries management International Centre of Ecological Engineering, Kalyani University

MEMBER IN DIFFERENT ORGANIZATION/ASSOCIATIONS/COMMITTEE

Sl.	Nature of Activity	Name of the Committee/Institution/Organization
1	Member of the Executive Council	West Bengal State University, Alia University, Sadhu Ram Chand Murmu University
2	Member of Steering Committee	The West Bengal Collage Service Commission
3	Collaborators	Science and Culture
4	Former Member	Senate/Court/Syndicate/Executive Council of all State aided Universities (Burdwan University, Kalyani University, West Bengal State University, North Bengal University, Sidhu Kanho Birsha University, Vidyasagar University etc.) as Directorate of Public Instructor, Govt. of West Bengal

5	Different Academic and Administrative Committees Member/Chairman	BRS, PGBS, UGBS, Advisory Board, UG & PG Faculty Council, Finance Committee etc.
6	Member/Chairman	Search Committee for selection of Vice Chancellors and Deans of different State Aided Universities, West Bengal, India.
7	Selection Committees Member	Selection Committees for Selection of Teachers, Officers and non Teaching Staff of Different State Aided Universities, West Bengal College Service Commission and Public Service Commission, West Bengal, India.
8	Standing Committee Member	Standing Committee of Different Colleges and Universities of West Bengal, India
9	Administrator/Chairman	Different Academic Institutions
10	Member	Different Academic & Administrative Bodies of Different Colleges & State Aided Universities.
11	Member	Different Policy Making Bodies of Higher Education Department, Different Universities, Colleges and other Academic Institutions
12	Member	State Council of Higher Education, Govt. of West Bengal, India
13	Chairperson	Different Committees of Different Govt. Colleges, West Bengal, India
14	Chairman	Important Section of Dept. of Science and Technology, Govt. of West Bengal, India
15	Chairperson	NAAC PEER TEAM, Bengaluru; October, 2017
16	Life Member	Indian Journal of Environment and Ecoplanning”, Society of Environmental Science
17	Life Member	“Science and Culture”, Indian Science News Association.
18	Life Member	“Proceedings of the Zoological Society”, The Zoological Society, Kolkata, India.
19	Life Member	Zoological Society of India (FZSI)

Nimai Chandra Saha

Prof. Nimai Chandra Saha (WBSSES)

Prof. and Head

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Date- 20.04.2024