



- 1. Name:** Prof. (Dr.) Nimai Chandra Saha
- 2. Father's Name:** Sri Alope Nath Saha
- 3. Date of Birth:** 29-03-1960
- 4. Present Position:** **Vice Chancellor, The University of Burdwan, Burdwan 713104, West Bengal, India**
- 5. Address (Home):** A-11/ 322, Kalyani, P.O. Kalyani, Dist. Nadia , West Bengal, PIN 741235
- 6. Address (Office):** The University of Burdwan, Rajbati, Burdwan, Dist. Purba Bardhaman, West Bengal, PIN713104
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- ORCID <https://orcid.org/0000-0001-5171-3762>
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- 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/>
- 9. Mother Tongue:** Bengali
- 10. Languages Known:** English, Bengali and Hindi
- 11. Nationality:** Indian

12. Education:

Name of Degree	Subject	Year of Passing	Name of University	Remarks
B.Sc. (Hons.)	Zoology	1980	University of Kalyani	
M.Sc.	Zoology	1982	University of Kalyani	I (1 ST in First Class)
Ph.D	Zoology	1992	University of Kalyani	
Title of Thesis: Effects of quinine factory wastes on fish and aquatic ecosystem				
D.Sc	Zoology	2021	Raiganj University	
Title of Thesis: Toxicity of some commonly found chemicals in the industrial effluents, sewage and trade wastes to fish and aquatic ecosystem and their bioremediation				

13. Fields of Specialization under the Subject/Discipline:

- Zoology
- Fisheries Sciences
- Aquatic Toxicology
- Ecology
- Environmental Sciences

14. Experiences:

(a) Teaching: 37 years

(b) Research:

Research Experience: 37 years

Research Guiding Experience: about 32 years

Number of Ph.D. completed scholar: 13

Number of currently working scholar: 8

Number of post doc fellow: 04

(c) Sponsored R & D Projects Handled/Being Handled During Last Five (5) Years:

Details of Projects under implementation:

S. No	Title	Cost in Lakh	Start Date	End Date	Role as PI/Co-PI	Agency
1	Prebiotic feed supplement for growth improvement of Indian major carps, <i>Labeo rohita</i> , <i>Cirrhinus mrigala</i> and <i>Catla catla</i> under composite culture system: A gut microbiome and nutrigenomics based approach	36,26,120/-	18-06-2019	17-06-2022	Project Co-ordinator	DBT, Govt. of India [BT/PR28574/AAQ/3/920/2018]
2	Breeding habitat characterization of filarial vector <i>Culex quinquefasciatus</i> 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]

Details of Projects completed during the last 5 years:

S. No	Title	Cost in Lakh	Start Date	End Date	Role as PI/Co-PI	Agency
1	-	Rs 7.1 crore	01-04-2017	31-03-2021	Team Leader	DST PURSE Phase 2
2	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]
3	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]

(d) Administrative:

- **As Professor or Equivalent Position:** More than 18 years

15. Employment & Experience (Details):

Name of the University	Name of the Vice-Chancellor	Date of last Joining as Vice-Chancellor	Qualification and Experience	
			Name of the post (Lecturer/ Sr. Lecturer/ Reader / Assistant Prof./Associate Prof./Professor/Dean/ Registrar (including additional charge if any))	Period of service
The University of Burdwan	Prof. (Dr.) Nimai Chandra Saha	26.02.2021	Lecturer in Zoology (WBES): A.B.N. Seal College, Cooch Behar, West Bengal.	15.06.1985 to 03.07.1989
			Lecturer in Zoology (WBES): Jhargram Raj College, Jhargram, West Bengal.	07.07.1989 to 04.12.1992
			Assistant Professor (Senior Scale) in Zoology (WBES): Jhargram Raj College, Jhargram, West Bengal.	05.12.1992 to 14.06.1998
			Reader in Zoology (WBES): Jhargram Raj College, Jhargram, West Bengal.	15.06.1998 to 05.04.1999
			Reader in Zoology (WBES): Presidency College, Kolkata, West Bengal	07.04.1999 to 31.05.2002
			Principal: Haringhata Mahavidyalaya, Haringhata, Nadia, West Bengal (On Lien)	01.06.2002 to 17.11.2003
			Reader in Zoology (WBES): Presidency College, Kolkata, West Bengal	18.11.2003 to 10.08.2005
			Principal (WBSSES): Jhargram Raj College, Jhargram, West Bengal	11.08.2005 to 13.01.2009
			Principal (WBSSES): Krishnagar Govt. College, Krishnagar, Nadia, West Bengal	14.01.2009 to 04.10.2010
			Professor and Head (WBSSES): P.G. Dept. of Zoology, Barasat Govt. College, West Bengal	05.10.10 to 22.07.2013
			Professor and Additional Director of Public Instruction (WBSSES), Education Directorate, Bikash Bhavan, Government of West Bengal	23.07.2013 to 31.12.2014
			Professor and Director of Public Instruction as Additional duty (WBSSES)	09.10.2014 to 31.12.2014
			Professor and Director of Public Instruction (WBSSES), W.B., Education Directorate, Bikash Bhavan, Government of West Bengal	01.01.2015 to 31.10.2016
			Vice-Chancellor, The University of Burdwan, West Bengal, India	01.11.2016 to 25.02.2021
Vice-Chancellor, The University of Burdwan, West Bengal, India	26.02.2021 to Till date			

(e) Foreign visit:

- Visited Bangladesh as special guest on 7-8th December, 2018 for attending 21th 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.
- Visited Bangladesh as special guest on 8-9th December, 2017 for attending 20th International biennial conference and AGM 2017 of the Zoological Society of Bangladesh (ZSB); and delivered lecture on the conference theme The Blue Economy: Bangladesh Perspective organized by ZSB and Dept. of Zoology, University of Dhaka, Bangladesh.

Visited Dept. of Statistics, Seoul National University, Seoul, South Korea as a Resource person during January 06-11, 2020.

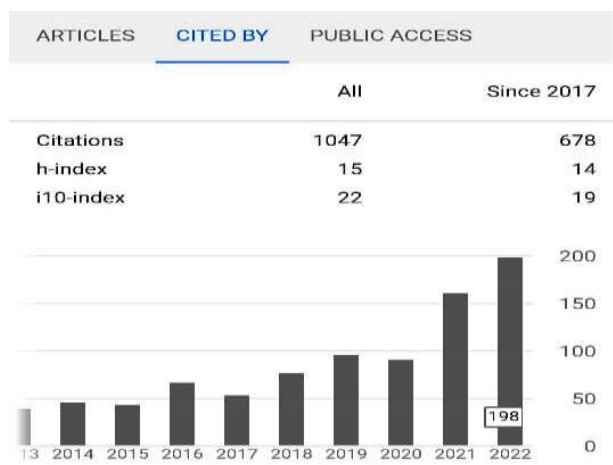
16. Awards & Fellowships Obtained:

- Merit Certificate for standing First in First Class in M.Sc. Examination, 1982 conferred by University of Kalyani.
- Fellow of Society of Environmental Sciences (F.S.E.Sc.) conferred by The Society of Environmental Science, Dumka for outstanding contribution in the field of Environmental Sciences, 2003.
- Certificate of Excellence for valuable contribution for the academic advancement of the Department of Zoology, Presidency College conferred by the said department, 2010.
- Fellow of the Zoological Society (FZS), Calcutta for outstanding contribution in the field of Zoology, 2016-17.
- Fellow of the Zoological Society of India (FZSI), for outstanding contribution in the field of Zoology, 2018-19.
- Fellow of the Zoological Society of Bangladesh (FZSB), for outstanding contribution in the field of Zoology, 2022.

17. Committee Member/Chairman:

- Member of the Senate, Syndicate, Court & Executive Council of different State aided Universities (Calcutta University, Burdwan University, Kalyani University, West Bengal State University, North Bengal University, Sidhu Kanho Birsha University, Vidyasagar University etc).
- Chairman/Member of the different academic & examination committees like BRS, PGBS, UGBS, Advisory Board.
- Chairman/Member of Search Committee for selection of Vice Chancellors and Deans of different state aided Universities.
- Member of 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.
- Member of Standing Committee of different colleges and universities of West Bengal.
- Administrator/Chairman of different academic institutions.
- Member of different academic & administrative bodies of different Colleges & State aided Universities.
- Member of different policy making bodies of Higher Education Department, different Universities, colleges and other academic institutions.
- Member of the State Council of Higher Education, Govt. of West Bengal
- Chairperson of different committees of different Govt. colleges, West Bengal.
- State Liaison Officer of National Service Scheme (NSS).
- Successfully conducted NAAC evaluation of Jhargram Raj College, Jhargram, West Bengal during my service period 11-08-2005 to 13-01-2009.
- Chairman of an important section of Dept. of Science and Technology, Govt. of West Bengal.
- Chairperson of the NAAC PEER TEAM, Bengaluru; from October, 2017.
- Successfully conducted two Convocations of The University of Burdwan held on December, 2017 and June, 2019 respectively.

18. Papers Published in High Impact Journals:



- (i) Mukherjee, D., Saha, S., Chukwuka, A.V., Ghosh, B., Dhara, K., **Saha, N.C.**, Pal, P. and Faggio, C., 2022. Antioxidant enzyme activity and pathophysiological responses in the freshwater walking catfish, *Clarias batrachus* Linn. under sub-chronic and chronic exposures to the neonicotinoid, Thiamethoxam®. *Science of The Total Environment*, p.155716. Impact Factor: 10.753.
- (ii) Saha, S., Chukwuka, A.V.*, Mukherjee, D., Dhara K, Pal, P., **Saha, N.C.***. Physiological (haematological, growth and endocrine) and biochemical biomarker responses in air-breathing catfish, *Clarias batrachus* under long-term Captan® pesticide exposures. *Environmental Toxicology and Pharmacology* 2022 Feb;90:103815 *Corresponding Author. Impact Factor: 5.785; Citation: 2
- (iii) Dhara, K., Saha, S., Chukwuka, A.V., Pal P, **Saha, N.C.**, Faggio, C*. Fluoride sensitivity in freshwater snail, *Bellamya bengalensis* (Lamarck, 1882): An integrative biomarker response assessment of behavioral indices, oxygen consumption, haemocyte and tissue protein levels under environmentally relevant exposure concentrations. *Environmental Toxicology and Pharmacology*, 2022 Jan;89:103789. *Corresponding Author. Impact Factor: 5.785. Citation: 2
- (iv) Dhara, K., Chukwuka, A.V., Saha, S., **Saha, N.C.** and Faggio, C., 2022. Effects of short-term selenium exposure on respiratory activity and proximate body composition of early-life stages of *Catla catla*, *Labeo rohita* and *Cirrhinus mrigala*. *Environmental Toxicology and Pharmacology*, 90, p.103805. Impact Factor: 5.785. Citation: 3
- (v) Bhattacharya, R., Chatterjee, A., Chatterjee, S. and **Saha, N.C.***, 2021. Acute toxicity and sublethal effects of sodium laureth sulfate on oxidative stress enzymes in benthic oligochaete worm, *Tubifex tubifex*. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, 243, p.108998. Impact Factor: 5.785. Citation: 3
- (vi) Chatterjee A, Bhattacharya R, Chatterjee S, **Saha NC***. λ cyhalothrin induced toxicity and potential attenuation of hematological, biochemical, enzymological and stress biomarkers in *Cyprinus carpio* L. at environmentally relevant concentrations: A multiple biomarker approach. *Comp Biochem Physiol C Toxicol Pharmacol*. 2021 Aug 12;250:109164. *Corresponding Author. Impact Factor: 4.52. citations: 1
- (vii) Bej S, Ghosh K, Chatterjee A, **Saha NC***. Assessment of biochemical, hematological and behavioral biomarkers of *Cyprinus carpio* on exposure to a type-II pyrethroid insecticide Alpha-cypermethrin. *Environmental Toxicology and Pharmacology*. 2021 Oct; 87:103717. *Corresponding Author. Impact Factor: 5.785. Citation: 2
- (viii) Bhattacharya, R., Chatterjee, A., Chatterjee, S. and **Saha, N.C.***, 2022. Commonly used surfactants sodium dodecyl sulphate, cetylpyridinium chloride and sodium laureth sulphate and

their effects on antioxidant defence system and oxidative stress indices in *Cyprinus carpio* L.: An integrated in silico and in vivo approach. *Environmental Science and Pollution Research*, 29(20), pp.30622-30637. *Corresponding Author. Impact Factor: 5.2. Citation: 3

- (ix) Moniruzzaman M, **Saha NC***. Consequences of sodium dodecyl sulfate exposure on the antioxidant status and steroidogenesis in fish gonad. *Environmental Science and Pollution Research* 2021 Apr; 28(15):19247-19259. *Corresponding Author. Impact Factor: 5.2.
- (x) Paul T, **Saha NC***. Environmental arsenic and selenium contamination and approaches towards its bioremediation through the exploration of microbial adaptations: A review. *Pedosphere*. 2019 Oct. 29(5), 554-568. *Corresponding Author. Impact Factor: 5.514. Citation: 1

19. Total Publications (159): (19.A. Research Papers Published/Communicated in National and International Journals (149) + 19.B. Books/Reports/Chapters/General articles (10))

19. A. Research Papers Published/Communicated In National and International

Journals:

149. Garai, P., Banerjee, P., Sharma, P. *et al.* Nitrate-Induced Toxicity and Potential Attenuation of Behavioural and Stress Biomarkers in *Tubifex tubifex*. *Int J Environ Res* **16**, 63 (2022). <https://doi.org/10.1007/s41742-022-00443-4> **Impact Factor: 3.3**
148. Garai P, Banerjee P, Sharma P, Chatterjee A, Bhattacharya R, Saha NC 2022. Mechanistic insights to lactic and formic acid toxicity on benthic oligochaete worm *Tubifex tubifex*. *Environmental Science and Pollution Research*. **Impact Factor: 5.2**
147. Mukherjee, D., Saha, S., Chukwuka, A.V., Ghosh, B., Dhara, K., Saha, N.C., Pal, P. and Faggio, C., 2022. Antioxidant enzyme activity and pathophysiological responses in the freshwater walking catfish, *Clarias batrachus* Linn under sub-chronic and chronic exposures to the neonicotinoid, Thiamethoxam®. *Science of The Total Environment*, p.155716. **Impact Factor: 10.752**
146. Laha, A., Bhattacharya, S., Moitra, S., Saha, N.C., Biswas, H. and Podder, S., 2022. Assessment of egg and milk allergies among Indians by revalidating a food allergy predictive model. *World Allergy Organization Journal*, 15(3), p.100639. **Impact Factor: 5.516**
145. Garai P., Sharma P, Banerjee P, Chatterjee A., Saha NC., 2022. Formic acid induced acute toxicity and its sublethal effects on growth, behavioral pattern and oxidative stress parameters of the freshwater snail *Bellamyia bengalensis* *Sci. and Cult.* (accepted).
144. Saha D, Mal J, Mondal K, Keshri JP, Saha NC., 2022. Study of the Phytoplankton Diversity with Respect to Water Quality Index in Damalia Abandoned Coal Mine Pit Lake, Raniganj Coalfield, West Bengal, India *Sci. and Cult.* 88 (5–6), 185-196.
143. Sardar S., Saha NC., Ghosh A., 2022. Microglia, the sentinel of Brain in the evolution of nervous system from Invertebrate to vertebrate: A short review. *J. Sci. Res.* 14(2), 685-697.
142. Dhara, K., Chukwuka, A.V., Saha, S., Saha, N.C. and Faggio, C., 2022. Effects of short-term selenium exposure on respiratory activity and proximate body composition of early-life stages of *Catla catla*, *Labeo rohita* and *Cirrhinus mrigala*. *Environmental toxicology and pharmacology*, 90, p.103805. **Impact Factor: 5.785**
141. Saha, S., Chukwuka, A.V., Mukherjee, D., Dhara, K., Pal, P. and Saha, N.C., 2022. Physiological (haematological, growth and endocrine) and biochemical biomarker responses in air-breathing catfish, *Clarias batrachus* under long-term Captan® pesticide exposures. *Environmental Toxicology and Pharmacology*, p.103815. **Impact Factor: 5.785**
140. Bhattacharya, R., Chatterjee, A., Chatterjee, S. and Saha, N.C., 2022. Commonly used surfactants sodium dodecyl sulphate, cetylpyridinium chloride and sodium laureth sulphate and their

effects on antioxidant defence system and oxidative stress indices in *Cyprinus carpio* L.: an integrated in silico and in vivo approach. *Environmental Science and Pollution Research*, pp.1-16. **Impact Factor: 5.2**

139. Dhara, K., Saha, S., Pal, P., Chukwuka, A.V., Panigrahi, A.K., Saha, N.C. and Faggio, C., 2022. Biochemical, physiological (haematological, oxygen-consumption rate) and behavioural effects of mercury exposures on the freshwater snail, *Bellamya bengalensis*. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, 251, p.109195. **Impact Factor: 4.52**

138. Dhara, K., Saha, S., Chukwuka, A.V., Pal, P., Saha, N.C. and Faggio, C., 2022. Fluoride sensitivity in freshwater snail, *Bellamya bengalensis* (Lamarck, 1882): An integrative biomarker response assessment of behavioral indices, oxygen consumption, haemocyte and tissue protein levels under environmentally relevant exposure concentrations. *Environmental toxicology and pharmacology*, 89, p.103789. **Impact Factor: 5.785**

137. Bhattacharya, R., Chatterjee, A., Chatterjee, S. and Saha, N.C., 2021. Acute toxicity and impact of sublethal exposure to commonly used surfactants sodium dodecyl sulphate, cetylpyridinium chloride and sodium laureth sulphate on oxidative stress enzymes in oligochaete worm *Branchiura sowerbyi* (Beddard, 1892). *Aquaculture Research*, 52(12), pp.6367-6379. **Impact Factor: 2.184**

136. Saha, S., Chukwuka, A.V., Mukherjee, D., Patnaik, L., Nayak, S., Dhara, K., Saha, N.C. and Faggio, C., 2021. Chronic Effects of Diazinon® Exposures Using Integrated Biomarker Responses in Freshwater Walking Catfish, *Clarias batrachus*. *Applied Sciences*, 11(22), p.10902. **Impact Factor: 2.838**

135. Mukherjee, J., Saha, N.C. and Karan, S., 2021. Bioaccumulation pattern of heavy metals in fish tissues and associated health hazards in human population. *Environmental Science and Pollution Research*, pp.1-15. **Impact Factor: 5.2**

134. Bej, S., Ghosh, K., Chatterjee, A. and Saha, N.C., 2021. Assessment of biochemical, hematological and behavioral biomarkers of *Cyprinus carpio* on exposure to a type-II pyrethroid insecticide Alpha-cypermethrin. *Environmental Toxicology and Pharmacology*, 87, p.103717. **Impact Factor: 5.875**

133. Bhattacharya, R., Daoud, I., Chatterjee, A., Chatterjee, S. and Saha, N.C., 2021. An integrated in silico and in vivo approach to determine the effects of three commonly used surfactants sodium dodecyl sulphate, cetylpyridinium chloride and sodium laureth sulphate on growth rate and hematology in *Cyprinus carpio* L. *Toxicology Mechanisms and Methods*, pp.1-13. **Impact Factor: 2.987**

132. Chatterjee, A., Bhattacharya, R., Chatterjee, S. and Saha, N.C., 2021. λ cyhalothrin induced toxicity and potential attenuation of hematological, biochemical, enzymological and stress biomarkers in *Cyprinus carpio* L. at environmentally relevant concentrations: A multiple biomarker approach. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, 250, p.109164. **Impact Factor: 4.52**

131. Bhattacharya, R., Daoud, I., Chatterjee, A., Chatterjee, S. and Saha, N.C., 2021. Homology Modelling, In Silico Prediction And Characterization Of Cytochrome c oxidase In *Cyprinus carpio* And *Tubifex tubifex* And Molecular Docking Studies Between The Modelled Protein And Three Commonly Used Surfactants Sodium Dodecyl Sulphate, Cetylpyridinium Chloride And Sodium Laureth Sulphate. *bioRxiv*.

130. Dhara, K., Saha, S. and Saha, N.C., 2021. Sensitivity of Common Carp, *Cyprinus carpio* (Linnaeus, 1758) to the Grey List Metal, Zinc under Laboratory Condition. *Asian J. Biol. Life Sci*, 10, pp.132-140.

129. Saha, S., Mukherjee, D., Dhara, K. and Saha, N.C., 2021. Acute Toxicity Bioassay of a Pyrethroid Pesticide Bifenthrin to the Asian stinging Catfish, *Heteropneustes Fossilis* (Bloch). *Curr. World Environ*, 16, pp.250-258.
128. Moniruzzaman, M. and Saha, N.C., 2021. Impact of variation in abiotic factors and metal accumulation pattern on the annual rhythmicity of antioxidants and maintenance of oxidative balance in fish gill. *Chemistry and Ecology*, 37(2), pp.149-163. **Impact Factor: 2.244**
127. Bhattacharya, R., Chatterjee, A., Chatterjee, S. and Saha, N.C., 2021. An integrated *in silico* and *in vivo* approach to determine the effects of three commonly used surfactants sodium dodecyl sulphate, cetylpyridinium chloride and sodium laureth sulphate on growth rate and hematology in *Cyprinus carpio* L. *Toxicology Mechanisms and Methods*, DOI: 10.1080/15376516.2021.1973633. **Impact Factor: 2.987**
126. Chatterjee, A., Bhattacharya, R., Chatterjee, S. and Saha, N.C., 2021. λ cyhalothrin induced toxicity and potential attenuation of hematological, biochemical, enzymological and stress biomarkers in *Cyprinus carpio* L. at environmentally relevant concentrations: A multiple biomarker approach. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, p.109164. **Impact Factor: 4.52**
125. Bej, S., Ghosh, K., Chatterjee, A. and Saha, N.C., 2021. Assessment of Biochemical, Hematological and Behavioral Biomarkers of *Cyprinus carpio* on exposure to a type-II Pyrethroid insecticide Alpha-cypermethrin. *Environmental Toxicology and Pharmacology*, 10.1016/j.etap.2021.103717. **Impact Factor: 5.875**
124. Bhattacharya, R., Chatterjee, A., Chatterjee, S. and Saha, N.C., 2021. Acute toxicity and impact of sublethal exposure to commonly used surfactants sodium dodecyl sulphate, cetylpyridinium chloride and sodium laureth sulphate on oxidative stress enzymes in oligochaete worm *Branchiura sowerbyi* (Beddard, 1892). *Aquaculture Research*, 10.1111/are.15501. **Impact Factor: 2.184**
123. Bhattacharya, R., Chatterjee, A., Chatterjee, S. and Saha, N.C., 2021. Acute toxicity and sublethal effects of sodium laureth sulfate on oxidative stress enzymes in benthic oligochaete worm, *Tubifex tubifex*. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, p.108998. **Impact Factor: 4.52**
122. Dhara, K., Saha, S. and Saha, N.C., 2021. Sensitivity of Common Carp, *Cyprinus carpio* (Linnaeus, 1758) to the Grey List Metal, Zinc under Laboratory Condition. *Asian Journal of Biological and Life Sciences*, 10(1), p.133.
121. Saha, S., Mukherjee, D., Dhara, K., Saha, N. C., 2021. Acute Toxicity Bioassay of a Pyrethroid Pesticide Bifenthrin to the Asian stinging Catfish, *Heteropneustes Fossilis* (Bloch). *Curr World Environ*, 16(1).
120. Chatterjee, S., Mandal, A., Bag, S., Sarkar, B., Bhaduri, R., Saha, N.C., 2021. Isolation and Characterization of *Pseudomonas* sp. strain and its role as Oviposition Attractant of the filarial vector *Culex quinquefasciatus*. *Biosc.Biotech.Res.Comm.* 14(2).
119. Saha, N.C., De. A., Mukherjee, S., Sadhukhan, G.C., Ash, A., 2021. Lipolytic potentials of three bacterial strains isolated from aquaculture benthos in east kolkata wetlands, India. *Research Journal of Life Sciences, Bioinformatics, Pharmaceutical and Chemical Sciences.* 7(1), p. 26-36.
118. Saha, S. and Saha, N.C., 2021. Study on Acute Toxicity of Bifenthrin to (*Clarias batrachus* Linn.). *Indian Journal of Ecology*, 48(2), pp.545-548.
117. Chatterjee, A., Bhattacharya, R., Chatterjee, S. and Saha, N.C., 2021. Acute toxicity of organophosphate pesticide profenofos, pyrethroid pesticide λ cyhalothrin and biopesticide azadirachtin and their sublethal effects on growth and oxidative stress enzymes in benthic oligochaete

worm, *Tubifex tubifex*. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*, 242, p.108943. **Impact Factor: 4.52**

116. Chakraborty, C., Chatterjee, A., Saha, N.C., 2021. Seasonal Fluctuations in Physicochemical Parameters of Water in Relation to Fish Diversity: In Muragacha Beel, West Bengal India. *Biosc.Biotech.Res.Comm.* 14(2).

115. Laha A, Ghosh A, Moitra S, Biswas H, Saha N.C., Bhattacharya S., Saha G.K, Podder S.- Association of HLA-DQ and IL13 gene variants with challenge-proven shrimp allergy in West Bengal, India, Springer-Verlag GmbH Germany, part of Springer Nature 2020,

114. Saha D, Keshri JP, Saha NC. Sustainable improvement of air quality during COVID-19 phase : a special reference to Asansol industrial township, West Bengal, India, *International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)*.2021, 10(7), a-m.

113. Saha D, Saha A, Saha N.C. Analysis of Pollutants in abandoned OCP water and its impact: special reference to Damalia OCP in Raniganj coalfield, West Bengal, *International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)*.2021, 10(3), a-j.

112. Saha, S.and Saha, N.C., 2021. Study on Acute Toxicity of Bifenthrin to (*Clarias batrachus* Linn.). *Indian Journal of Ecology*, 48(2), pp.545-548.

111. Bhattacharya R, Chatterjee A, Chatterjee S, Saha NC. Oxidative stress in benthic oligochaete worm, *Tubifex tubifex* induced by sublethal exposure to a cationic surfactant cetylpyridinium chloride and an anionic surfactant sodium dodecyl sulfate. *Comparative Biochemistry and Physiology Part C: Toxicology & Pharmacology*. 2020:108906. **Impact Factor: 4.52**

110. Saha S, Dhara K, Saha NC. Evaluation on the Sensitivity of the Freshwater Tropical Worm, *Branchiura sowerbyi* (Beddard, 1892) to the Pyrethroid Pesticide, Bifenthrin. *Research & Reviews: Journal of Ecology*. 2020 29;9(1), 8-13.

109. Saha D, Saha A, Saha N.C. Seasonal variation of water quality and its sustainable approach in local livelihood in Harabhanga abandoned OCP in Raniganj Coalfield, West Bengal, India, *International Journal of Biology, Pharmacy and Allied Sciences (IJBPAS)*.2021, 10(3), a-j.

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19. B. Books/Reports/Chapters/General articles

Books/Reports/Chapters/General articles etc				
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	Primary Concept of Arsenic Toxicity: An Overview. Geostatistics and Geospatial Technologies for Groundwater Resources in India	Biswas S. J., Patra M., Giri S.K., Gorain S., Gope D., Saha N.C and Guha B.	Springer Hydrogeology	2021
3	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
4	Bioremediation of Heavy Metals	Paul T, Saha NC.	Wiley	2021
5	Commonly Available Plant Neem (<i>Azadirachtaindica</i> A. Juss) Ameliorates Dimethoate Induced Toxicity in Climbing Perch <i>Anabas testudineus</i>	Giri S.K, Gorain S, Patra M, Gope D, Saha N.C , Biswas S. J.	Springer Nature Switzerland	2020
6	Experiential Learning : Analysis of Impact on Students about Literacy	Saha NC.	Socio-Economic Challenges &	2020

	of Birds Conservation		Possibilities	
7	A study on the effects of alpha cypermethrin to fish, <i>Cyprinus carpio</i> (Linnaeus, 1758)	Bej S, Saha NC.	Sustainable management of aquatic resources	2018
8	Study on the acute toxicity of chromium and nickel to freshwater benthic oligochaete worm, <i>Branchiurusowerbyi</i> Beddard, 1982	Dhara K, Panigrahi AK, Saha NC.	Sustainable management of aquatic resources	2018
9	Virtual study and virtual laboratory: An effective new mode in imparting education	Saha NC, Biswas SJ, Mukherjee D.	Virtual study and virtual laboratory: A boon in distance learning	2016
10	Determination of LC50 or LD50 for a particular toxicant	Saha NC.	Contemporary laboratory and field experiments in zoology	2015

20. Published/Accepted/Submitted as Abstracts in National & International Seminar:

- (i) 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.
- (ii) 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.
- (iii) 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.

- (iv) Micronucleus and behavioural studies in fresh water fish, *Anabustestudinus* exposed to Dimethoate, Santosh kumarGiri, SurjyoJyoti Biswas 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.
- (v) Parameters and ichthyofaunal diversity of HasadangaBeel: a floodplain wetland of Nadia, Chandan Sarkar 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.
- (vi) Synthesis, structure and magnetic property of a dibridgeddinuclear copper(II) azide compound, Chandan Adhikary, BarindraKumarGhosh and Nimai Chandra Saha, submitted for poster 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.
- (vii) Syntheses, spectroscopic characterisation and luminescence behaviour of Group 12 metal(II) complexes containing a Tailored Amine and Varied Pseudohalides, DipuSutradhar, Habibar Chowdhury, Nimai Chandra Saha and Barindra Kumar Ghosh, 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.
- (viii) Synthesis, structure, luminescence property and antibacterial activity of some hexacoordinatedzinc(II) complexes with Schiff base, Habibar Chowdhury, DipuSutradhar, Nimai Chandra Saha and Barindra Kumar Ghosh, submitted for poster 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.
- (ix) Isophthalato-bridged dinuclear zinc(II) complex with a tetradentateschiff base: synthesis, structure and luminescence property, Habibar Chowdhury, DipuSutradhar, Nimai Chandra Saha and Barindra Kumar Ghosh, submitted for poster presentation in International

Science Seminar jointly organised by Burdwan Raj College, Burdwan 713 104 and Indian Chemical Society, 92 APC Road, Kolkata 700 009 on October 10, 2017 at Burdwan Raj College, Burdwan

- (x) “Syntheses, X-ray structures, molecular properties and in vitro antibacterial effect of two coordination polymers of cadmium(II) pseudohalide containing an in situ generated didentate Schiff base, Habibar Chowdhury, DipuSutradhar, Nimai Chandra Saha and Barindra Kumar Ghosh, Poster Presentation, National Symposium on ‘Recent Advances in Chemistry & Industry 2017’, The Indian Chemical Society, Page 132-133, August 2-3, 2017.
- (xi) A comparative study on phytoremediation of paper and pulp mill effluent by some common aquatic weeds in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta science and Culture Organisation for youth, in 2016(Abstract No. 65/VII/O, Page No.255).
- (xii) A study on the effects of Alpha-cypermethrin to fish, *Cyprinus carpio* (Linnaeus, 1758) in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta science and Culture Organisation for youth, in 2016(Abstract No. 118/II/P, Page No.150).
- (xiii) 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, in 2016(Abs. No.119/II/O. Page No.139)
- (xiv) Study on the acute toxicity of chromium and nickel to freshwater benthic oligochaete worm, *Branchiurusowerbyi*Beddard, 1982 in International Conference on Aquatic Resources and Sustainable Management organised by Central Calcutta science and Culture Organisation for youth,in 2016(Abs. No 120/II/O, Page 139)
- (xv) 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
- (xvi) 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 organised by Dept. of Zoology, University of Kalyani in collaboration with ZSI, Bodh Gaya(Page 153),2013

- (xvii) 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
- (xviii) 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
- (xix) 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
- (xx) 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
- (xxi) Study on the comparative toxicity of nickel and zinc on the haematological parameters of *Clarias batrachus* 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
- (xxii) Pathophysiological studies of freshwater catfish, *Clarias batrachus* (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
- (xxiii) Oxidative stress induced inhibition of rat brain $\text{Na}^+\text{K}^+\text{ATPase}$ exposed to Ni^{2+} 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

- (xxiv) Role of lipid peroxidation and mitochondrial electron transport chain on the Na^+K^+ ATPase activity in rat brain exposed to Ni^{2+} 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
- (xxv) Inhibition of mammalian brain Na^+K^+ 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
- (xxvi) 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
- (xxvii) Simplified method of induced spawning & larval rearing of tropical air breathing catfish, *Clariasbatrachus* in National Seminar on “Molecules to Man”. February 24-25, 2005, Department of Zoology, The University of Burdwan (Page No.64), 2005

21. Papers presented in Conference, Seminars, Workshops and Symposia:

- (i) 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)
- (ii) 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)
- (iii) Study on the comparative toxicity of Nickel and Zinc on the haematological parameters of *Clariasbatrachus* 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)

- (iv) 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)
- (v) 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 & 2nd August, 2011(State Level)
- (vi) 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)
- (vii) 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)
- (viii) 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)
- (ix) 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)
- (x) 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)

22. Seminar organized as Organising Secretary/ Convener/President/ Member

- (i) Acted as Joint convener of the 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 on 19th & 20th September, 2011

- (ii) 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
- (iii) 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
- (iv) 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
- (v) 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
- (vi) 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
- (vii) 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

23. Invited Lecture and Chairmanship at National/International Conference/Seminar etc.:

- (i) 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
- (ii) 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
- (iii) 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

- (iv) 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
- (v) Delivered Invited Lecture in Raiganj University on Blue Economy: Indo-Bangladesh Perspective, January 10, 2018.
- (vi) Delivered speech as Chief Guest on Blue Economy: Bangladesh Perspective in Dhaka University, Bangladesh, December 09, 2017.
- (vii) Acted as Resource Person in the National Seminar on “Genomics: Molecular to Ecosystem Level” organized by The Asiatic Society, Kolkata
- (viii) Acted as Resource Person in the National Seminar on Biodiversity: Exploration, Exploitation, Conservation & Management – Vision & Mission organised by Barasat Government College in 2016
- (ix) Acted as Chairperson, West Bengal Science Congress, 2016 organised at Bankura Christian College
- (x) 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
- (xi) Acted as Resource Person in the National Seminar on ‘From Molecules to Ecosystem – A Zoological Perspective’ organised by Rahora Ramkrishna Mission College in 2016
- (xii) 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
- (xiii) 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
- (xiv) 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
- (xv) 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

- (xvi) 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
- (xvii) 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
- (xviii) Invited Lecture as Resource Person in 2014 in a National Seminar Organised by NSOU **Title** : Virtual Learning on Biological Dissection
- (xix) Chairperson, 2013-14 in a National Seminar Organised by Department of Zoology, The University of Burdwan; **Title**: 21st West Bengal Science & Technology Congress
- (xx) 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
- (xxi) 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
- (xxii) 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
- (xxiii) 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
- (xxiv) 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
- (xxv) 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

(xxvi) Delivered a Lecture on Local Seminar on Pisciculture & Fishermen Community Organised by Cossimbazar Manindranagar Colony Fishermen Cooperative Society Limited

(xxvii) Delivered a Lecture in Training Programme on Pisciculture and ornamental fish culture and fisheries management International Centre of Ecological Engineering, Kalyani University

24. Membership of Scientific Journals

(i) Life member of “Indian Journal of Environment and Ecoplanning”, Society of Environmental Science

(ii) Life member of “Science and Culture”, Indian Science News Association

(iii) Life member of “Proceedings of the Zoological Society”, The Zoological Society, Kolkata, India

(iv) Editorial board member of ‘Science and Culture’