



Dr. Malabika Biswas Roy

Assistant Professor,

Gandhi Centenary B.T. College,
Habra, North 24th Parganas, West Bengal, India

Phone : +91-03216-237199,

Fax: +91-03216-235446, 9830499576 (M)

And

Post Doctoral Researcher

School of Water Resources Engineering,
Jadavpur University, Kolkata – 700 032, India

Bio-data

Sex: Female
Nationality: Indian
E-mail: malabikabiswasroy@gmail.com, malabikabiswas@rediffmail.com

Education:

- Bachelor of Science (Geography Hons)
- Masters of Science (Geography)
- Bachelor of Education (B.Ed)
- Ph.D. (Science) ,2008 from Jadavpur University, Kolkata ,India
- Masters of Education (M.Ed)

Experience: Teaching: 13 years
Research: 12 years

- **Doctoral Guidance: 4 nos.** (*under the faculty of Interdisciplinary Studies Law & Management in Jadavpur University*)
- Research Project as **Principal Investigator: 2 nos.**
1 completed (UGC Minor 82 thousand) and 1 ongoing (UGC Major Research Project -14.45 lakhs).
- Research Project as **Research Team Member: 7 nos. (project completed)**
- Training Course: **Refresher Course(2-ASC, Jadavpur University), Orientation course(1- ASC, Jadavpur University) and other (5)**
- Journal Publication: **(National-10/ International-28): 38nos.**

- No of **Book Published (International publication): 2 no.**

- No of **Edited Volume: 2 no.**

- **Post Doctoral research work- 1 no completed**

Institute: Jadavpur University under the faculty of *Interdisciplinary Studies Law & Management* **Tenure: 3.12.2014 to 15.6.2015**

- Seminar/conference participated: **10 nos.**

- Other Publication: **8 nos.**

- Professional membership: **2 nos. Life Member INCA**

Life Member Indian Science Congress

- **Invited Speaker: 2 nos.**

Topic	Duration	Nature of participation	Sponsoring authority
<i>World Wetland Day (Wetland for conservation of Biodiversity and Restoration of Climate Change. Venue: Raidighi, South 24 Parganas</i>	2 nd February, 2010	Invited Speaker	Regional Centre for National Afforestation and Eco Development Board ,Jadavpur University
<i>World Forestry Day Importance of Forest and Forest Hydrology (Venue: Dhamakhali, South 24 Parganas</i>	21 st March ,2014	Invited Speaker	Regional Centre for National Afforestation and Eco Development Board ,Jadavpur University

List of Publications

1. In Peer-Reviewed Journals

(A) In International Journals:

1. Environmental Threat to Wetland Bio-Diversity On Migratory Bird: A Case Study of Peri-Urban Area Of West Bengal

Malabika Biswas Roy, Debanjana Chatterjee, Trisha Mukherjee and Pankaj K. Roy

Asian Journal of Current Research , VOL. 1(1): 30-38, 2016 journal is covered by **SCOPUS**

2. A comparative Study of Labour Participation in Three Wetland Regions of West Bengal ,India, **Malabika Biswas Roy**, Pankaj K. Roy ,Nihar Ranjan Samal
ISSN 2250-2149, **Journal of The Institution of Engineers (India): Series A** ISSN 2250-2149, **Springer**, March ,2016

Mihir Pal,Nihar R. Samal,**Malabika Biswas Roy** and Pankaj Kumar Roy, Imperial **Journal of Interdisciplinary Research(IJIR)** , ISSN 2454-1362, Vol-2, Issue-5, 2016

3. Impact of Forest Intervention on Water and Soil Quality- Case Studies , **Malabika Biswas Roy**, Debanjana Chatterjee, Pankaj Kumar Roy, Asis Mazumder

International Journal of Environmental Engineering– IJEE 18 April, 2016 Volume 3 : Issue 1

4 Fresh water lake water model application for seasonal variation Of Latent And Sensible Heat Fluxes From The Water Surface Of Rudrasagar , Lake,Tripura
MihirPal ,Nihar Ranjan Samal, **MalabikaBiswas Roy** & Pankaj K. Roy , Imperial **Journal of Interdisciplinary Research(IJIR)** , ISSN 2454-1362, Vol-2, Issue-5, 2016

5. Wetland Conservation, Management and Community Education- A Review of Published
Malabika Biswas Roy, Debanjana Chatterjee, Pankaj K. Roy and Asis Mazumdar
The Journal of ECOLOGY, ENVIRONMENT AND CONSERVATION
VOL. 21 (4) : 2015 journal is covered by **SCOPUS** ,ISSN No.- **0971-765X**

6. Sinusoidal Model Development for the Study of Diurnal Variation of Surface Dissolved Oxygen for the Lake Subhas Sarobar, Kolkata
MihirPal ,Nihar Ranjan Samal, Pankaj Kumar Roy, & **MalabikaBiswas Roy**
The Journal of Global Ecology and Environment
4(1), 18-24, 2015 , **ISSN No.- 3297:2007**

7 Integrated assessment of impact of water resources of important river basins in Eastern India under projected climate conditions
Pankaj Kumar Roy, Nihar Ranjan Samal, **MalabikaBiswas Roy** & Asis Mazumdar
The Global Nest
17(3), 594-606, 2015 , **ISSN No.- 1790-7632**

8 Sinusoidal Model Development for the Study of Diurnal Variation of Surface Air Temperature and Surface Dissolved Oxygen for the Lake Rudrasagar in Pre-Monsoon Period

Mihir Pal, Pankaj Kumar Roy & **Malabika Biswas Roy**

International Journal of Engineering Science Invention

4(1), 2015, 10-18 ,ISSN No.- 2319 – 6734

8 Electrical Conductivity of Lake Water as Environmental Monitoring – A Case Study of Rudrasagar Lake

Mihir Pal, Nihar Ranjan Samal, Pankaj K. Roy, & **Malabika Biswas Roy**

IOSR Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)

9(3), 2015, 66-71 ,ISSN No.- 2319-2402

9. Removal of arsenic from drinking water using dual treatment Process

Pankaj Kumar Roy, Asis Majumder, Gourab Banerjee, **Malabika Biswas Roy**, Somnath Pal, & Asis Majumder

Clean Technologies and Environmental Policy

Springer 17 (4), 2015, 1065-1076 , ISSN No.- 1618-9658

10. Weather Aberration and its Impact on Agriculture of Habra Block, North 24 Pgs, West Bengal

Malabika Biswas Roy, Alivia Bose, Pankaj Kumar Roy & Asis Mazumdar

Climate Change

1(2), 83-97, 2015 ,ISSN No.- pISSN: 2394-8558 eISSN: 2394-8566

11. Education is a tool for conservation of East Kolkata Wetland in West Bengal: A case study

Malabika Biswas Roy, Rea Roy, Pankaj Kumar Roy & Asis Mazumdar

Journal of Chemical and Pharmaceutical Research,

7(2), 95-101, 2015, ISSN No.- 0975 – 7384

12. Role of sewage fed fisheries for treatment of dry weather flow of Kolkata City maintaining the eco-toxicity balance

Pankaj Kumar Roy, **Malabika Biswas Roy**, Asis Majumder, & Arunavo Majumder

Journal of Chemical and Pharmaceutical Research,

6(9), 328-333, 2014 ,ISSN No.- 0975 – 7384

13 Resilience and Sustainability of An Aquatic Ecosystem in North-East of India

Mihir Pal, **Malabika Biswas Roy**, Nihar Ranjan Samal, & Pankaj Kumar Roy

GALAXY International Interdisciplinary Research Journal,

2 (9), 2014, 100-109 , ISSN No.- 2347-6915

14 A Review of Published Forest Hydrology Research 1990-2013: Forest Hydrology and Hydrological Processes

Malabika Biswas Roy, Debanjana Chatterjee, Pankaj Kumar Roy, Nihar Ranjan Samal, & Asis Mazumdar

ZENITH International Journal of Multidisciplinary Research,

4 (8), 2014, 9-22, ISSN No.- 2347-6915

15. Limnological Comparisons of Threats to aquatic life owing to Thermal Stratification in two Morphometrically different urban shallow lakes

Nihar Ranjan Samal, Pankaj Kumar Roy, **Malabika Biswas Roy** & Asis Mazumdar

Sustainability, Agri, Food and Environment Research,

2(1), 2014,13-30 , ISSN No.- 0719-3726

16 Temperature and dissolved oxygen stratification in the lake Rudrasagar: Preliminary Investigation

Mihar Pal, Nihar Ranjan Samal, Pankaj Kumar Roy & **Malabika Biswas Roy**

Sustainability, Agri, Food and Environment Research,

2(1), 2014,1-12 ,ISSN No.- 0719-3726

17. Six Years Major Historical Urban Floods in West Bengal State in India: Comparative Analysis Using Neuro-Genetic Model

Nihar R. Samal, Pankaj K. Roy, Mrinmoy Majumdar, S. Bhattacharya, **Malabika Biswas Roy**

American Journal of Water Resources,

2 (2), 2014, 41-53 ,ISSN No.- 2333-4819

18 Variation of water quality parameters with siltation depth for River Ichamati along International Border with Bangladesh using Multivariate Statistical Techniques

Pankaj Kumar Roy, Somnath Pal, Gourab Banerjee, **Malabika Biswas Roy**, Dia Ray & Asis Majumder

Journal of Institution of Engineers-Series E

95(2), 2014, 97–103 ,ISSN No.- 2250-2491

19 A Study to ascertain the Optimum Yield from Groundwater Source in the Eastern Part of Kolkata Municipal Corporation Area in West Bengal, India

Panakj Kumar Roy, Gourab Banerjee, Asis Mazumdar, Amlyan Kar, Asis Majumder & **Malabika Biswas Roy**

European Journal of Sustainable Development

1(2) 2012, 97-112 ,ISSN: 2239-6101

20. Socio-economic valuations of Wetland based Occupations of Lower Gangetic Basin through Participatory Approach

Malabika Biswas Roy, Pankaj Kumar Roy, Nihar Ranjan Samal, & Asis Mazumdar

Environment and Natural Resources Research

2(4) 2012, 30-44 , ISSN 1927-0496, IF-0.029

21. Impact of Land Use and Aquatic Plants on the Water Quality of the Sub-Tropical Alpine Wetlands in India: A Case Study using Neuro-Genetic Models

Malabika Biswas Roy, Pankaj Kumar Roy, Nihar Ranjan Samal, & Asis Mazumdar

Journal of Water Resource and Protection
4(8) 2012, 576-589 ,ISSN: 1945-3108, IF-0.27

22. Water Quality Monitoring by Multivariate Statistical Methods in the Alpine Lake of Darjeeling Himalaya, India

Malabika Biswas Roy, Pankaj Kumar Roy, Nihar Ranjan Samal, & Asis Mazumdar
International Journal of Advanced Scientific and Technical Research
6(2) 2012, 115-131 ,ISSN: 2229-5518, IF-2.94

23. Impact of enhanced flow on the flow system and wastewater characteristics of sewage-fed fisheries in India

Pankaj Kumar Roy, Asis Majumder, Arunavo Mazumdar, Mrinmoy Majumder, & Malabika Biswas Roy
Journal of Environmental Science & Technology
5(7) 2011, 512-521, ISSN: 1735-2630, IF- 5.257

24. Limnological analysis of an urban polluted lake in Bangalore city in India in India. Nihar Ranjan. Samal, Papita Saha, Pankaj Kumar Roy, **Malabika Biswas Roy**, R. V. Ramana & Asis Mazumdar.

***Journal. Desalination and Water Treatment* ,**
30 (2011), 217-228 , ISSN: 19443994, IF-2.50

25. Watershed Management With Special Emphasis On Fresh Water Wetland: A Case Study Of Mathura Beel in West Bengal, India.

M. B. Roy, N. R. Samal, P.K. Roy & A. Mazumdar.
Journal of Global NEST (Global Network of Environmental Science and Technology), Greece,
13 (1) 2011, 1-10, ISSN: 1790-7632, IF-1.0

26. Soil carbon and nutrient accumulation under forest plantations in Jharkhand State of India

Pankaj Kumar Roy, Nihar Ranjan Samal, Malabika Biass Roy & Asis Mazumdar
Journal of Clean – Soil, Air, Water (Wiley InterScience)
38 (8) 2010, 706-712, ISSN: 0323-4320, IF-2.046

27 Application of Artificial Neural Network to Measure the impact of Increasing Depth on Agriculture and Fishing activities of Bhomra Beel

Malabika Biswas Roy, Mrinmoy Majumder, Pankaj Kumar Roy & Asis Mazumdar
Journal of Environmental Science, Published in enviro.philica .com, 150 (2009)
ISSN 1751-3030

28. Man-wetland dependency and socio-economic evaluation of wetland functions of rural India through participatory approach

Malabika Biswas Roy, Nihar Ranjan Samal, Pankaj Kumar Roy & Asis Mazumdar

International Journal Of Water Science and Engineering Hohai University Nanjing
210098, China,
3(4), 2009 ,ISSN:1674-2370, IF- 1.1

(B) In National Journal:

29 A Holistic Approach of Participatory Management of Wetland: Bhomra Beel-
A case study

Malabika Biswas, Sumana Bandopadhyay, Pankaj Kumar Roy & Asis Mazumdar

Journal of Public Health Engineers, (India)

2006(1) 2006, 21-25 ,ISSN-0970-3195

30 A Comprehensive Study of Users Perception of Wetland Regions

Malabika Biswas, Pankaj Kumar Roy & Asis Mazumdar

Indian Journal of Environmental Protection

27(3) 2007, 209-215 , ISSN: 0253 - 7141

31 Versatile Role of an Urban Wetland; Subhas Sarobar: A Case Study, Kolkata

Malabika Biswas, Pankaj Kumar Roy, Dea Roy & Asis Mazumdar

Journal of Indian Association for Environmental Management

34(2) 2007, 110-115 , ISSN: 0970-8480

32 A Case Study: An Integrated Approach of Wetland Management in Nadia District,
West Bengal

Malabika Biswas, Pankaj Kumar Roy, Debasri Roy & Asis Mazumdar

Indian Journal of Water Works Association

XXXIX(4) 2007, 265-270 ,ISSN: 0970-275X

33 Management Plan of an Alpine Wetland: Mirik lake, A Case Study

Malabika Biswas, Rabindra Nath Barman, Arun Kumar Biswas, Pankaj Kanti Roy &
Asis Mazumdar

Journal of the River Research Institute, West Bengal

28(2007-08) 2008, 13-21 , ISSN: 0970-9258

34 Pollutional Load Assessment on Water System of River Basin, Agartala through
Qualitative and Quantitative Analysis

Mihar Pal, Shekhar Datta, **Malabika Biswas**, Pankaj Kumar Roy & Asis Mazumdar

Journal of IAEM

36(2) 2009, 78-82 , ISSN: 0970-8480

35 Neighbourhood Perception and Management Options for the National Lake in a Metro
City: A Case of SubhasSarobar, Kolkata

Malabia Biswas, Mrinmoy Majumder, Pankaj Kumar Roy & Asis Mazumdar

Journal of Water and Land Use Management

9(1-2) 2009, 1-14 , ISSN 0973-9300

36 Summer thermal stratification: an indicator of water pollution in shallow lake
Nihar Ranjan Samal, Pankaj Kumar Roy, **Malabika Biswas & Asis Mazumdar**
Journal of Chemical Engineering, Institution of Engineers (India)
90 (2010), 37-43 , ISSN: 0020-3351

37 Woman Participation in terms of their livelihood around Natural Resource, in case of
Floodplain Wetland in West Bengal
Malabika Biswas Roy, Pankaj Kumar Roy & Asis Mazumdar
SURVEY A management Research Journal of IISWBM-India
50(3&4) 2010, 108-116 , ISSN: 0586-0008, IF-0.16

2 Chapter in Edited Book

1. Biodiversity and Carbon Sequestration, two important values of the Wetlands of West Bengal
Malabika Biswas Roy, Pankaj kumar Roy and Asis Mazumdar
in Arvind Kumar and Shisir Suman Misra (Edited) Environmental Engineering
, Daya publishing house, Delhi. India, (2011) chapter-8, page- 58-68
ISBN: 978-81-7035-644-8

2. A case study: an integrated approach of Wetland Management in Nadia District, West Bengal,
Malabika Biswas Roy, Pankaj kumar Roy and Asis Mazumdar in Arvind Kumar
(Edited) Fundamentals of Limnology,
, APH publisher, corporation, New Delhi. India, (2009) chapter-21, page- 143-150
ISBN: 81-7648-919-0

3 (A) Books Published as Single Author ,International Publication

* Woman Participation of Ecosystem Services in a Holistic Approach

,
Malabika Biswas Roy
2013, Lap Lambert Academic Publishing, Germany
ISBN -978-3-659-55273-1

3. (B) Books Published as a 1st Author ,International Publication

* Conservation of Ecosystem Services through Participatory Management: Cases of
Wetlands in West Bengal, India

,
Malabika Biswas Roy, Pankaj Kumar Roy and Asis Mazumdar
2012, Lap Lambert Academic Publishing, Germany
ISBN -978-3-659-40541-9

4. Full Paper in Conference Proceedings:

i). Upgradation and Management of Rabindra Srobar Lake in Kolkata

Malabika Biswas Roy, Pankaj Kumar Roy and Asis Mazumdar

National conference on “Conservation and Restoration of Lake” organized by National Institute of Hydrology, Roorkee, Uttarakhand, 2009

ii) Wetland, a valuable Resource of Indian Subcontinent: Some study of Wetland in West Bengal

Malabika Biswas Roy, Debasri Roy and Asis Mazumdar

National conference on “Integrated water and wastewater management” organized by Jadavpur University, Kolkata 2010

iii) Impact of Forest Intervention on Water and Soil Quality- Case Studies

Malabika Biswas Roy, Debanjana Chatterjee, Pankaj Kumar Roy and Asis Mazumdar

Conference: The Third Intl. Conf. On Advances in Applied Science and Environmental Technology - ASET 2015, At Bangkok, Thailand

5. Presentations in Conferences, Seminars, Symposia:

i) Wetland, a valuable Resource of Indian Subcontinent: Some study of Wetland in West Bengal

Malabika Biswas Roy, Debasri Roy and Asis Mazumdar

National conference on “Integrated water and wastewater management” organized by Jadavpur University, Kolkata 2010

ii) Conservation of wetland through women education and empowerment

Malabika Biswas Roy

National Seminar on Women Empowerment and role of Teacher, Sundarban Ashutosh B.Ed College for women in collaboration with Annapurna Memorial College of Education 2014.

iii) Conservation and Management of Wetland in a Holistic Approach: A Case of Bhomra Beel of West Bengal

Malabika Biswas Roy

National Seminar on Water: A Threatened Social Resource of the Century, At Women's Christian college, Kolkata, 9th October, 2015

iv) *Impact of Climate Change on Wetlands Biodiversity of Rural West Bengal*

Malabika Biswas Roy

National Seminar on Environment Ethics and Evaluation, Bijay Krishna Girls College, Howrah 23-24 November, 2015

v) Impact of Forest Intervention on Water and Soil Quality- Case Studies

Malabika Biswas Roy,Debanjana Chatterjee ,Pankaj Kumar Roy and Asis Mazumdar

Conference: The Third Intl. Conf. On Advances in Applied Science and Environmental Technology - **ASET 2015, At Bangkok , Thailand**

Sl.No.	Topic Of Seminar	National/International	Organizer	Paper Title
1	3rd International Conference on Advances In Applied Science and Environmental Technology	International Conference 28-29 December ,2015	Institute of Research Engineers and Doctors ,Bangkok ,Thailand	Impact of Forest Intervention on Water and Soil Quality-Case Studies
2	International Conference on Aquatic Resources and Sustainable Management	International Conference 17/18/19 February,2016	Central Culcutta science and cultural organization for youth. in collaboration with University of Calcutta.	Study of Water Quality Scenario for Wetland fishery in West Bengal; Case Studies
3	9th international Geographical union(IGU) conference on Land Use Change ,Climate Extremes and Disaster Risk Reduction .	International Conference 18/19/20 March, 2016	9th international Geographical union(IGU) conference ,University of Delhi ,Delhi ,India	Wetland, valuable –Natural Resource Management through PRA Technique: A Case Study of West Bengal
4	Contemporary Research in Geography	UGC Sponsors National Seminar 5-6 March,2016	Deptt. of Geography,Bhairab Ganguly College in collaboration with National Atlas and Thematic Mapping Organization	Study on Wetland in Rural West Bengal against Environmental Health Impact through Participation
5	Contemporary Research in Geography	UGC Sponsors National Seminar 5-6 March,2016	Deptt. of Geography,Bhairab Ganguly College in collaboration with National Atlas and Thematic Mapping Organization	Application of Travel Cost Approach to Assess the Recreation Value of Wetland Chupichar
6	Water :A Threatened Social Resource of Country	UGC Sponsors National Seminar 9th October,2015	Deptt.of Geography,Women'sChristain College,kolkata	Conservation and Management of Wetland in Holistic Approach: A Case Study Bhamra Beel of West Bengal
7	Environment ,Ethics and Evaluation	UGC Sponsors National Seminar 23-24 November,2015	Bijoy Krishna Girl's College,Howrah	Impact of Climate Change on Wetland Biodiversity of Rural West Bengal
8	Teacher Responsibilities in Student-Teacher Relationship : The Changing Scenario	UGC Sponsors National Seminar 12-13 May,2016	Gobardanga Hindu College in collaboration with Gandhi Centenary B.T. College ,Habra	A Conceptual Study on the Change in Teacher –Student Relationship and THE Present Scenario.

6. Campus Publication (In college Magazine, ASHONA)

(i) “Wetland a Major Feature of Landscape in almost all parts of the World” published in the year of 2008-09, pp. 39-44.

(ii) “Rural Watershed Development and Management through Rainwater Harvesting and Artificial Recharge of Groundwater in Dhengam Village, East Singbhum Districts, Jharkhand” published in the year of 2009-10, pp. 46-51.

(iii) “Innovative and best practices on combating land desertification and deforestation including water management practices in West Bengal” published in the year of 2010-11, pp. 72-77.

(iv) “Indigenous Watershed Management after Post-Tsunami in South Anadaman Island” published in the year of 2011-12, pp. 40-45.

(V) “People Responses and their Views or revival of river Ichhamoti through Socioeconomic survey” published in the year of 2012-13, pp. 35-41.

(Vi) “Rainwater Harvesting, a sustainable solution to mitigate water stress condition under changed climate” published in the year of 2013-14, pp. 57-60.

(Vii) “Value and Importance of Sahebbandh Lake in Purulia, West Bengal” published in the year of 2014-15, pp. . 98-101.

7. REVIEWER- Name of the Journal- **WETLANDS**- Publisher- **SPRINGER**

8.Achievements:

- NET (National Eligibility Test for Lecturer) qualified in 2005.
- Bharat Jyoti award in 2014 (India International Friendship Society)

9.Extra-Curricular Activities

- 3yrs diploma in Rabindra Sangit

10. Software Knowledge: MS Office , R.S. and GIS (Arc View, Digitization, Map Info, TNT GIS).

