

BRIEF BIODATA

Name : Dr. Surjya Kumar Saikia.

Designation : Associate Professor

Department/Institute/University:

Department of Zoology, Visva - Bharati University,
Santiniketan, Bolpur, West Bengal Pin 731 236.



Date of Birth : 10/10/1975

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Education (Post-Graduation onwards & Professional Career)

Sl No.	Institution Place	Degree Awarded	Field of Study
1	Gauhati University, India	M.Sc., 2000	Fish Biology
2	Rajiv Gandhi University, India	PhD, 2006	Diversity of periphyton with emphasis on feeding ecology of fish in rice fish culture system of Apatani Plateau Arunachal Pradesh

Position and Employment

Sl No.	Institution Place	Position	From (Date)	To (date)
1	VisvaBharati University, India	Assistant Professor I	12/06/2009	11/06/2013
2	VisvaBharati University, India	Assistant Professor II	12/06/2013	11/06/2018
3	VisvaBharati University, India	Assistant Professor III	12/06/2018	11/06/2021
4	VisvaBharati University, India	Associate Professor	12/06/2021	Till date

Area of expertise

Fish stress biology, Fish chemosensory biology, Aquatic Ecology, Feeding Ecology of fish, Biology of Small fresh water fishes

Publication

Total Publication : 67
H Index (All) : 16.0
I10 index (All) : 24.0
Total citations (All) : 736
Publications

1. Publications in Journals

- (i) S.K.Saikia and D.N.Das (2003a). Diversity indices of zooplankton and water quality in the two freshwater ponds of Arunachal Pradesh, India. *GEOBIOS*, 30(2-3), 113-116.
- (ii) S.K.Saikia and D.N.Das (2004b). 'Aji gnui assonii' a practice of organic hill farming among the Apatani tribe of Eastern Himalaya. *International Journal of Sustainable Development and World Ecology* 11, 211-217.
- (iii) D.N.Das, A.K. Das and S.K.Saikia (2007). Periphyton in rice-fish culture system: A case study from Arunachal Pradesh, India. *Renewable Agriculture and Food Systems* 22: 316-319 Cambridge University Press.
- (iv) S.K.Saikia and D.N. Das (2008a). Rice-Fish culture and its potential in rural development: A lesson from Apatani Farmers, Arunachal Pradesh, India, *Journal of Agriculture & Rural Development* 6(1&2), 125-131.
- (v) S.K.Saikia and D.N.Das (2008b). Periphyton Diversity in Rice Fish Integrated Fields at a High Altitude of Eastern Himalaya, *International Journal of Ecology and Environment Sciences*, 34 (4): 299 – 306.
- (vi) S.K.Saikia and D.N.Das (2009a). Feeding ecology of Common carp (*Cyprinus carpio* L.) in rice fish culture system of Apatani plateau, Arunachal Pradesh, India, *Aquatic Ecology* 43: 559-568
- (vii) P.K. Sahoo, S.K.Saikia and D.N. Das (2009b). Natural food resources and niche breadth of *Barilius bendelisis* (Hamilton) (Pisces, Cyprinidae) in river Dikrong, an upland riverine ecosystem in India, *Pan-American Journal of Aquatic Sciences* 4(1): 12-16.
- (viii) S.K.Saikia and D.N.Das (2009c). Diversity and similarity of algal communities from upland rice-fish environment: A case study, *International Journal of Ecology and Development* 14 No. F09.
- (ix) S.K.Saikia and D.N.Das (2009d). Potentiality of Periphyton-based Aquaculture Technology in Rice-fish Environment, *Journal of Scientific Research* 1 (3), 624-634.
- (x) S.K.Saikia and S. Nandi (2010). C and P in aquatic food chain: a review on C:P stoichiometry and PUFA regulation. *Knowledge and Management of Aquatic Ecosystems*, 398 (03), DOI: 10.1051/kmae/2010024.
- (xi) S.K.Saikia and D.N.Das (2010). First report on Xeng fishery: A periphyton based aquaculture practice in Assam, India, *SIBCOLTEJO*, 5, 102-106
- (xii) S.K. Saikia and D.N.Das (2010). Ecology of terrace wet rice environment and role of periphyton. *Journal of Wetland Ecology*, 4: 102-111.
- (xiii) S.K. Saikia and D.N. Das (2011). Diversity and productivity (Chlorophyll-a and Biomass) of periphyton on natural and artificial substrates from wetland ecosystem. *Journal of Wetland Ecology*, 5: 1-9.
- (xiv) S.K. Saikia (2011). Review on periphyton as mediator of nutrient transfer in aquatic ecosystem. *Ecologia Balkanica*, 3(2): 65-78.
- (xv) S.K. Saikia, S. Roy and J. Mukherjee (2011). The Upside of Grazer-Periphyton Interactions: A Review. In: *Zooplankton and Phytoplankton: Types, Characteristics and Ecology* (Ed. Giri Kattel) Nova Science Publishers Inc, UK p.89-106 (ISBN: 978-1-61324-508-8)
- (xvi) S. Roy, S. Mandal, J. Mukherjee, M. Roy, S. Mandal and S.K. Saikia (2011). Body Size versus Rate Parameters of Zooplankton and Phytoplankton: Effects on Aquatic Ecosystems. In: *Zooplankton and Phytoplankton: Types, Characteristics and Ecology* (Ed. Giri Kattel) Nova Science Publishers Inc, UK. pp.193-218 (ISBN: 978-1-61324-508-8)

- (xvii) S.K. Saikia, S. Roy and J. Mukherjee (2011). Aquatic Ecosystem Health: A Review. In: Aquatic Ecosystems (Ed. Sheila A. Browne), Nova Science Publishers Inc, UK. Pp 1-47. (ISBN: 978-1-61324-399-2).
- (xviii) S.K. Saikia (2012). Proposal of new and simple descriptive measure of diet breadth. *Ecologia*, 2(3): 85-92, DOI: 10.3923/ecologia.2012.85.92.
- (xix) S Nandi, S Majumder, SK Saikia (2012). Small Freshwater Fish Species (SFFs) culture: Issues from nutrient security, carp-SFF integration and feeding ecology. *Reviews in Fish Biology and Fisheries*. 23(3): 283-291. doi. 10.1007/s11160-012-9294-2.
- (xx) S.K. Saikia and D.N. Das (2012). Comparison Index (CI): A new and rapid procedure for measuring planktonic fluctuations. *Methods in Ecology and Systematics* 7(2):8-15.
- (xxi) S.K. Saikia, S. Nandi and S. Majumder (2013) A review on the role of nutrients in development and organization of periphyton. *Journal of Research in Biology*, 3(1): 780-788
- (xxii) S Das, S Nandi, S Majumder, S. K. Saikia (2013). New Characterization of Feeding habits of *Puntius sophore* (Hamilton, 1822) through Morphometry. *Journal of fisheriescience.com* 7(3): 225-231. doi. 10.3153/jfscom.2013023
- (xxiii) T Mandal, S Majumder and SK Saikia (2013) An analysis of girth lengths to morphometric measures of *Labeobata* (Hamilton 1822). *International Journal of Scientific Research* 2(9):16-17
- (xxiv) S.K. Saikia, S. Majumder, S. Nandi and S.K. Saha (2013) Feeding ecology of the freshwater fish Rohu *Labeorohita* (Hamilton 1822): A case of intelligent feeding in a periphyton- based environment. *Zoology and Ecology* 23(4): 266-274 <http://dx.doi.org/10.1080/21658005.2013.859849>
- (xxv) S.K. Saikia, S.K. Saha and S. Majumder (2013) Preliminary investigation on the diversity of plankton and periphyton from a freshwater pond stocked with rohu, *Labeorohita* (Hamilton, 1822). *Ege Journal of Fisheries and Aquatic Science* 30(4), 183-186.
- (xxvi) I. Samajdar and S.K. Saikia (2014) Traditional fishing gears of Birbhum district, West Bengal, India. *Indian Journal of Traditional Knowledge* 13(1): 187-194.
- (xxvii) S. Chattopadhyay, S. Nandi, and S. K. Saikia (2014) Mouth morphometry and architecture of freshwater cat fish *Mystus vittatus* Bloch (1974) (Siluriformes, Bagridae) in relation to its feeding habit. *Journal of Scientific Research* 6(1): 169-174, doi <http://dx.doi.org/10.3329/jsr.v6i1.16369>
- (xxviii) S. K. Saikia and D.N. Das (2014) Sustainable aquaculture: agro-ecological role of periphyton in rice fish farming. *Reviews in Aquaculture* 6: 1-15, doi 10.1111/raq.12062
- (xxix) S. Danger, S Majumder and S. K. Saikia (2014) Back calculation of body weight of *Labeorohita* from different scale measures. *Journal of Frontier Research* 3: 34-41
- (xxx) S.K. Saikia, S. Nandi and S. Majumder (2015) ‘Synbiofilm’ – a friendly microbial association in aquatic ecosystem. *Annual Research and Reviews in Biology* 5(2): 97-108.
- (xxxi) S. Nandi and S.K. Saikia (2015) Size selective feeding on phytoplankton by two morphogroups of small freshwater fish *Amblypharyngodon mola*. *Journal of Fish Biology*, 87: 215-230. doi:10.1111/jfb.12706.
- (xxxii) S. K Saikia (2015) Statistical Blue lines: Biologist’s A-Priori Need. *Annals of Biometrics & Biostatistics*. 2(3): 1024.
- (xxxiii) S. Nandi and S.K. Saikia (2015) Role of morphometry in determining the feeding success of small freshwater fish species: Multivariate analysis of *Amblypharyngodon mola*, *Puntius ticto*, and *Esomus danricus*. *Archives of Polish Fisheries*, 23: 79-90. DOI 10.1515/aopf-2015-0009.

- (xxxiv) S.K. Saikia (2016) Food and feeding in fishes. What we need to know? *Transylvanian Review of Systematical and Ecological Research*, 17(1): 71-84. DOI <https://doi.org/10.1515/trser-2015-0049>
- (xxxv) S. Nandi and S.K. Saikia (2016) Does size matter? Observation on the availability of micronutrients in two different sizes of small freshwater fish *Amblypharyngodon mola* (Hamilton, 1822). *International Journal of Fisheries and Aquatic Studies*, 4(5): 17-19
- (xxxvi) S.K. Saikia (2016) On the methodology of feeding ecology in fish. *European Journal of Ecology*, 2(1): 35-46, doi: 10.1515/eje-2016-0004
- (xxxvii) Sabnam Parvin, Ruchira Sarkar and Surjya Kumar Saikia (2017) People's knowledge on small fish as source of nutrition: a case study in Birbhum District of West Bengal, India. In: Role of animal science in national developments- Nanotechnology in Aquaculture. Eds. B.B. Kaliwal, Pandey, B.N., Kulkarni, G.K. Today's and Tomorrow's Publishers and Printers, New Delhi-002.
- (xxxviii) Malick, S. Chatterjee, S. Bhattacharya, V.R. Suresh, R. Kundu, S.K. Saikia (2018) Evidence of putative sensory receptors from snout and tongue in an upstream amphihaline migratory fish hilsa *Tenualosailisha*. *Ichthyological Research*, 65(1): 42-65. DOI 10.1007/s10228-017-0592-5.
- (xxxix) Subhendu Kumar Chatterjee, Chandan Malick, Samir Bhattacharya, Rakesh Kundu, Vettath Raghavan Suresh, Surjya Kumar Saikia. (2018) 'Sensory pad'- A novel chemoreceptive device in hilsa (*Tenualosailisha*) to support its amphihaline attribute. *Acta Biologica Szegediensis*, 62(1): 1-6. doi: 10.14232/abs.2018.1.1-6
- (xl) Chandan Malick, Subhendu Kumar Chatterjee, Samir Bhattacharya, Rakesh Kundu, Vettath Raghavan Suresh, Surjya Kumar Saikia. (2018) Structural organization of the olfactory organ in an amphihaline migratory fish Hilsa, *Tenualosailisha*. *Microscopy Research and Technique*, 81(10): 1120-1131 doi: 10.1002/jemt.23095
- (xli) Subhendu Kumar Chatterjee, Chandan Malick, Samir Bhattacharya, Vettath Raghavan Suresh, Rakesh Kundu, Surjya Kumar Saikia. (2019) Ectopic expression of olfactory receptors and associated G-protein subunits in the head integument of the amphihaline migratory fish hilsa *Tenualosailisha*. *Journal of Fish Biology*, 95(1): 324-334. doi: 10.1111/jfb.13801
- (xlii) Saran Ishika Maiti, Surjya Kumar Saikia (2019) Effect size - a magic wand for fickle p-value in experimental biological research. *Journal of Advanced Scientific Research*, 10(4): 1-7.
- (xliii) Saran Ishika Maiti, Surjya Kumar Saikia (2019) p<0.05 Is Not Enough. *Advances in Zoology and Botany*, 7(2): 24-27. DOI: 10.13189/azb.2019.070202
- (xliv) Sabarna Choudhury, Surjya Kumar Saikia (2020) Oxidative stress in fish: a review. *Journal of Scientific Research*, 12(1): 145-160. <https://doi.org/10.3329/jsr.v12i1.41716>
- (xlv) Chandan Malick, Subhendu Kumar Chatterjee, Samir Bhattacharya, Rakesh Kundu, Vettath Raghavan Suresh, Surjya Kumar Saikia (2020) Gustatory ultrastructures of an amphihaline migratory fish hilsa *Tenualosa ilisha*. *Microscopy Research and Technique*. 83(5): 507-513. <https://doi.org/10.1002/jemt.23439>
- (xlvi) Madhumathan Mukherjee, Ankita Nandi, Krishna Chandra, Surjya Kumar Saikia, Chandan Kumar Jana, Nilanjana Das (2020) Protein extraction from *Saccharomyces cerevisiae* at different growth phases. *Journal of Microbiological Methods*, 172: 105906. Doi: <https://doi.org/10.1016/j.mimet.2020.105906>.
- (xlvii) Sandip Majumder, Surjya Kumar Saikia (2020) Ecological intensification for feeding rohu *Labeo rohita* (Hamilton, 1822): A review and proposed steps towards an efficient resource fishery. *Aquaculture Research* 51(08): 3072-3078. Doi: 10.1111/are.14669

- (xlvi) Sangita Roy, Saran Ishika Maity, Surjya Kumar Saikia, Santanu Ray (2020) Ecomorphological traits determine assemblage pattern of small freshwater fish in smaller lentic aquatic bodies. *Journal of Scientific Research*, 12 (4): 713-727 doi: <http://dx.doi.org/10.3329/jsr.v12i4.45998>
- (xlix) S. Debnath, S. I. Maiti, S. K. Saikia (2020) pH and Temperature Dependent Gut Enzyme Niche in a Stomachless Herbivorous Freshwater Fish *Amblypharyngodon mola* (Hamilton, 1822). *Journal of Scientific Research*, 12 (4): 729-741, Doi: 10.3329/jsr.v12i4.46003
- (l) Nandi, Sudarshana, Saikia, S.K. (2020) Scanning electron microscopic and histological studies of the buccal cavity of a phytoplanktivorous small freshwater fish, *Amblypharyngodon mola*. *Microscopy Research & Technique*, 84(1):119-124. doi: 10.1002/jemt.23572
- (li) Gogoi, B., Das, D.N., Saikia, S.K. (2020): Feeding ecology of *Pachypterus atherinoides* (Actinopterygii; Siluriformes; Schilbeidae): A small freshwater fish from floodplain wetlands of Northeast India. *Croatian Journal of Fisheries*, 78, 105-120. doi: 10.2478/cjf-2020-0011
- (lii) Sanjeet Debnath, Surjya Kumar Saikia (2021) Absorption of protein in teleosts: a review. *Fish Physiology and Biochemistry*. 47, 313–326 <https://doi.org/10.1007/s10695-020-00913-6>
- (liii) Sangita Roy, Santanu Ray, Surjya Kumar Saikia, (2021) Indicator environmental variables in regulating the distribution patterns of small freshwater fish *Amblypharyngodon mola* in India and Bangladesh. *Ecological Indicators*, 120: 106-906.
- (liv) Sabarna Chowdhury and Surjya Kumar Saikia (2021) Ammonia ambience induces SIRT5 regulated expression of EGF-AKT-mTOR axis in Asian stinging catfish *Heteropneustes fossilis* (Bloch) 1974. *Acta Biologica Szegediensis*, 65(2):263-270. <https://doi.org/10.14232/abs.2021.65.263-270>
- (lv) Sanjeet Debnath, Surjya Kumar Saikia (2021) Characterization of amylase and protease activity in the digestive tract of two teleosts (*Labeo rohita* and *Anabas testudineus*) with different feeding habits. *Acta Biologica Szegediensis* 64(2), 173-179, <https://doi.org/10.14232/abs.2020.2.173-179>.
- (lvi) Sabarna Choudhury, Subhendu Kumar Chatterjee, Samir Bhattacharya, Sudipta Maitra, Surjya Kumar Saikia (2021) Acidic ambience induced post-oxidative stress affects AMPK- PGC1 α -SIRT1 axis in the skeletal muscles of Zebrafish *Danio rerio* Hamilton, 1822. *Acta Biologica Szegediensis* 64(2), 191-198, <https://doi.org/10.14232/abs.2020.2.191-198>
- (lvii) Saran Ishika Maiti, Surjya Kumar Saikia (2021) An approach for quantifying western blots: the case of signal intensity and the statistical analysis. *Acta Fytotechnica et Zootechnica*. 24, 2021(2): 141–146, <https://doi.org/10.15414/afz.2021.24.02.141-146>.
- (lviii) Sangeeta Roy, Sanjeet Debnath and Surjya Kumar Saikia (2021) Threats to Freshwater Fish and Application of Community Ecology Studies in Conservation. In Current Approaches in Science and Technology Research Vol. 6 (Ed. Essam A. Makky), BP International, 978-93-91312-29-9 (Print), 978-93-91312-30-5 (Online). pp. 69-74. DOI: 10.9734/bpi/castr/v6/2462F
- (lix) Sanjeet Debnath, Sangeeta Roy and Surjya Kumar Saikia (2021) Absorption of Macronutrients in Teleost. In Current Approaches in Science and Technology Research Vol. 6 (Ed. Essam A. Makky), BP International, 978-93-91312-29-9 (Print), 978-93-91312-30-5 (Online). pp. 62-66. DOI: 10.9734/bpi/castr/v6/2461F
- (lx) Subhendu Kumar Chatterjee, Chandan Malick, Surajit K. Banik, Samir Bhattacharya, Rakesh Kundu, Vettath Raghavan Suresh, Surjya Kumar Saikia (2021) Do hydro-biological factors influence spawning migration: A case study of

- Hilsa's (*Tenualosa ilisha*) breeding habitat in Ganga River, India. Egyptian Journal of Aquatic Biology & Fisheries. 25(3): 187-199
- (lxi) Choudhury, S. and Saikia, S.K. (2022). Use of Zebrafish as a Model Organism to Study Oxidative Stress: A Review. *Zebrafish*, 19(5), 165-176. doi: <https://doi.org/10.1089/zeb.2021.0083>
 - (lxii) Saikia, S.K. (2023). Aquatic resources and feed diversification: Reviewing three case studies from South East Asia with a viewpoint of trophic intensification in rice fish culture. *Aquaculture and Fisheries* (available online).doi: <https://doi.org/10.1016/j.aaf.2023.01.006>
 - (lxiii) Roy, Sangeeta, Ray, Santanu, Saikia, S.K. (2023) Seasonal variation of length-weight relationships and fulton's condition factor of five small indigenous freshwater fish species. *Egyptian Journal of Aquatic Biology and Fisheries*, 27(3): 655-662. Doi. 10.21608/EJABF.2023.305314
 - (lxiv) Choudhury, S. and Saikia, S.K. (2023). High-resolution microscopic visualization of mitochondrial damage under oxidative stress in zebrafish, *Danio rerio*. *International Journal of Aquatic Biology*, 11(4): 305-312.
 - (lxv) Roy, Sangeeta and Saikia, S.K. (2023) Characterization of Some Physico-Chemical Parameters of Water Bodies Inhabited by Small Indigenous Fish Species (SIFs): A Case Study. *European Journal of Aquatic Sciences*, 2(3): 1-7. <https://doi.org/10.24018/ejaqua.2023.2.3.16>
 - (lxvi) Choudhury, Sabarna and Saikia, S.K. (2023) Evaluation of oxidative stress on Zebrafish under different pH and dissolved oxygen levels using MDA as biomarker. *Journal of Fish Health*, 3(2): 33-44. <https://doi.org/10.29303/jfh.v3i2.3249>
 - (lxvii) Mandal, N and Saikia, S.K. (2024) Niche breadth indices: a review. In: Emerging Trends in Life Sciences, Edited, Rathod, V. and Singh, D. Integrated Publications, New Delhi.

2. Abstract published

- (i) S. Nandi and S.K. Saikia (2014) *Amblypharyngodon mola*: A management protocol through natural and planktonic resources. In. Proceeding of World Biodiversity Congress 2014 held at Colombo, Sri Lanka from November 24-27, 2014. p. 105
- (ii) S.K. Saikia, S. Mazumder and S. Nandi (2014) Underexplored aquatic resources and feeding ecology of fish: Tree case studies. In. Proceeding of World Biodiversity Congress 2014 held at Colombo, Sri Lanka from November 24-27, 2014. p. 107
- (iii) C. Mallick, S. Chatterjee, R. kundu, S. Bhattacharya, S.K. Saikia (2014). 'Trailing Hilsa's Migration: An invitation to nano-science' In. Proceedings of International Conference on Molecular Signaling-"Recent trends in Biomedical and Translational Research" from December 17-19, 2014 at IIT Rurkee. P. 54.
- (iv) C. Mallick, S. Chatterjee, R. Kundu, S. Bhattacharya, S.K. Saikia (2014) 'Ultramicroscopic architecture of olfactory organ of *Tenualosa ilisha* Ham. (Indian shed). In. Proceedings of International Conference on Molecular Signaling-"Recent trends in Biomedical and Translational Research" from December 17-19, 2014 at IIT Rurkee. p. 64
- (v) C. Mallick, S. Chatterjee, S. Bhattacharya, R. kundu, S.K. Saikia (2015) 'Nature and function of chemoreceptors (taste buds, and solitary chemoreceptor cells) in fish migration - a case study in Hilsa, *Tenualosa ilisha* (Hamilton, 1822)'. In. Proceedings of International Conference on Molecular Signaling: Recent Trends in Biosciences' from November 20-22, 2015 at North Eastern Hill University, Shillong, Meghalaya.

- (vi) Surjya Kumar Saikia (2019) Underexplored aquatic resources and feed diversification: three cases in fish culture. In. Ecological Intensification: A new paragon for sustainable aquaculture. International Conference, 28-30 October, 2019, Bogor, Indonesia.
- (vii) Surjya Kumar Saikia (2024) Upstream migration of Hilsa- role of the habitat. International Conference on Challenges & Prospects of Bioresource Conservation in Eastern Himalaya, 3-4 May, 2023, Gauhati University, Assam.
- (viii) Surjya Kumar Saikia (2024) Sustainability in Fisheries: resource intensification and species selection. 6th International Conference on Agriculture for Sustainable Development, ICAR-NRRI, 19-21 January, Cuttack.

4. Webinar attended on NAAC

1. 2-days webinar on NAAC assessment and Accreditation Process. 30th and 31st July, 2020 by IQAC, Xt Xavier College, Kolkata.
2. 'NAAC revised accreditation guideline and role of IQAC in post covid-19 era' on 6th August, 2020 by St Vincent Pallotti College of Engineering and Technology, Nagpur.
3. 'NAAC accreditation and evaluation process' by NAAC, Bangalore, on 10th July, 2020.
4. 'Towards Excellence: Adaptation, Dissemination and Sustenance' by NAAC, Bangalore, 18th August, 2020
5. 'Awareness of Predatory Journals' by NAAC, Bangalore on 11/09/2020.
6. 'Academic and Administrative Audit' by NAAC, Bangalore on 27/04/2021
7. 'Discussion on Metrics of Criterion 4, Criterion 5, Criterion 6 and Criterion' by NAAC, Bangalore, 28th April, 2021
8. 'Role of IQAC for Quality Assurance in the Higher Education Institutions' by NAAC, Bangalore on 28th April, 2021
9. 'Academic and Administrative Audit in the Higher Education Institutions' by NAAC, on 29th April, 2021
10. 'Outcome Based Education' by NAAC, Bangalore on 29th April, 2021
11. 'Research Impact Metrics: Calculation and Context' by NAAC, Bangalore on 29th April, 2021
12. 'Student Support satisfaction and progression' by NAAC, Bangalore on 2nd June, 2021
13. 'Imbibing a culture of excellence through various audits' by NAAC, Bangalore on 02/06/2021

5. Book Published

1. S.K. Saikia and D.N. Das (2015) Laboratory hand book on basic ecology (soil, water, plankton and feeding ecology with special mention to periphyton). ISBN 978-1-940366-08-1, Science Publishing House, New York, USA
2. S.K. Saikia (2016) Writing science research paper: Step to step approach. ISBN 978-93-85892-32-5, Power Publishers, Kolkata, India.
3. S.K. Saikia (2021) Student's Book on Organic Evolution, Systematics and taxonomy. ISBN 978-93-90611-04-1, Jaya Publishing House, Rohini, Delhi.
4. S.K. Saikia and S. I Maiti (2021) Fundamental of Research Methodology. ISBN 978-93-91216-25-2, Akinik Publication, New Delhi.

6. Book Edited

1. Biodiversity, Conservation and Sustainable Development, Volume 1, Issues and approaches. (Edited by Dr. PrithwirajJha). Acted as Associate Editor. New Academic Publishers, New Delhi, ISBN 978-81-86772-75-1, 2015.

7. Individual Projects

- (i) Evaluation of natural feed selectivity and trophic status of rohu (*Labeo rohita* H) for periphyton based aquaculture system, Funded by University Grants Commission, New Delhi, Total amount: 5.36 Lakhs, Status: Completed.
- (ii) To elucidate whether chemoattractants stimulate feeding in Indian major carps to accelerate their growth. Science and Engineering Research Board, New Delhi (PI: Dr. Surjya Kumar Saikia) Total amount: Rs. 3400000/-. Status: Ongoing
- (iii) To Investigate whether regulation of muscle mitochondria function is associated with the growth in cultivable fish. Department of Biotechnology, New Delhi (PI: Dr. Surjya Kumar Saikia) Total Amount: 4730600/- Status: Completed on 18th February, 2021.

8. Collaborative project

- (i) Stock characterization, captive breeding, seed production and culture of hilsa (*Tenualosa ilisha*) (PI: Dr. V. R. Suresh, CIFRI, Barrackpur, Kolkata, CCPI: Prof. Samir Bhattacharya) funded by National Agriculture Science Fund, Indian Council of Agriculture Research, New Delhi, Total amount: Rs. 159.74780 lakh, Status: Completed on 27th November 2017.
- (ii) Elucidating the mechanism and assessing amelioration potential of *Ocimum* and *Lucas* in stress-induced impaired homeostasis on growth and reproduction in Zebrafish, National Agriculture Science Fund, ICAR, New Delhi (PI: Dr. Sudipta Maitra, Visva-Bharati, CCPI: Dr. Satyasundar Bhattacharya, Tezpur University), Total Amount: 179.31050 Lakh, Status: Completed on 28 February 2020.
- (iii) To elucidate the unique biochemical adaptational strategies that allow two air-breathing catfishes (*Clarias batrachus* and *Heteropneustes fossilis*) to survive in ammonia enriched toxic waste. (Co-PI: Dr. Surjya Kumar Saikia). Total amount: 93,01912/-. Status: Ongoing.

9. Symposium/conference attended

- (i) Paper presented (oral) in International Conference on Molecular Signaling-“Recent trends in Biomedical and Translational Research” from December 17-19, 2014 at IIT Rurkee. Title of the paper ‘Trailing Hilsa’s Migration: An invitation to nano-science’ (co-authored by C. Mallick, S. Chatterjee, R. Kundu, S. Bhattacharya)
- (ii) Paper presented (oral) in ‘International Conference on Molecular Signalling: Recent Trends in Biosciences’ from November 20-22, 2015 at North Eastern Hill University, Shillong, Meghalaya. Title of the paper ‘Nature and function of chemoreceptors (taste buds, and solitary chemoreceptor cells) in fish migration - a case study in Hilsa, *Tenualosa ilisha* (Hamilton, 1822) (co-authored by C. Mallick, S. Chatterjee, S. Bhattacharya and R. Kundu)
- (iii) Paper presented (oral) in 5th International Conference of Molecular Signaling at Chennai organized by AU – KBC Research Centre, Anna University, Chennai, Tamil Nadu from 10 Jan, 2017 to 12 Jan, 2017. Title of the paper ‘Snout as a site of sensory reception in Hilsa, *Tenualosa ilisha* (Hamilton, 1822)’ (co-authored by C. Mallick, S. Chatterjee, S. Bhattacharya and R. Kundu)
- (v) Paper presented (oral) in National Seminar on Integrated approach in Zoological Research and Biennial Conference on Zoological Society of Assam at Department of Zoology, Gauhati University from 30-31st March, 2017. Title of the paper “Role of non-

- olfactory tissue in fish migration: a new story from Hilsa *Tenualosa ilisha* (Hamilton, 1822)". (co-authored by C. Malick, S. Chatterjee, S. Bhattacharya and R. Kundu).
- (iv) Paper presented (oral) in 6th International Conference of Molecular Signaling at University of Hyderabad from 8-10 February, 2018. Title of the paper 'I know where to go'- a tale of a migratory fish in India. (co-authored by C. Malick, S. Chatterjee, S. Bhattacharya and R. Kundu)
 - (vi) Paper presented (Invited talk) in Two day's workshop cum National seminar on "Trends in modern biology techniques and application" at Department of Zoology, Visva-Bharati from 23-24th March, 2019. Title of the talk "P value is less than 0.05: where is the problem?"
 - (vii) Paper presented in International Conference, Ecological Intensification: A new paragon for sustainable aquaculture on "Underexplored aquatic resources and feed diversification: three cases in fish culture" held from 28-30 October, 2019, Bogor, Indonesia.
 - (viii) Paper presented in International Conference on Challenges & prospects of Bioresource conservation in Eastern Himalaya with special reference to UN-Sustainable Development Goals, 3-4 May, 2023, Gauhati University, Guwahati
 - (ix) Surjya Kumar Saikia (2023) Post NAAC accreditation Scenario in Higher Education. 10 October, 2023, Beltola College, Guwahati.
 - (x) Surjya Kumar Saikia (2024) Upstream migration of Hilsa- role of the habitat. International Conference on Challenges & Prospects of Bioresource Conservation in Eastern Himalaya, 3-4 May, 2023, Gauhati University, Assam.
 - (xi) Surjya Kumar Saikia (2024) Sustainability in Fisheries: resource intensification and species selection. 6th International Conference on Agriculture for Sustainable Development, ICAR-NRRI, 19-21 January, Cuttack.

10. Training/workshop/winter school attended

- (i) Attended 'Image analysis-A basic Course' organized by Center for Cellular and Molecular Platforms (C-CAMP) held during 29-30th January, 2020.
- (ii) Attended 'ILS Cell Biology Conference and Hands on Training on Microscopy (Confocal) and High Content Screening' from 9-15th December, 2019 at Institute of Life Sciences, Bhubaneswar, India.
- (iii) UGC sponsored short term course on "MOOCs, E-content development and open educational resources" at HRDC, Gauhati University from 26th November 2018 to 02 December 2018.
- (iv) 5- Day National Workshop on Statistical analysis in multidisciplinary research –Learning through software. August 27-31, 2018.held at Department of Statistics, Visva-Bharati.
- (v) Attended '5 days Hands-on Workshop on Molecular Biotechnology and Bioinformatics' at International Center for Stem Cells, Cancer and Biotechnology (ICSCCB), Pune, India from 12th to 16th January 2015
- (vi) Attended State level Workshop on the draft of Comprehensive Fisheries Policy for Odisha State at Hotel Mayfair Lagoon, Bhubaneswar on 30th April 2014.
- (vii) Attended Regional Workshop on 'Nutrition-sensitive aquaculture/agriculture for improved food and nutrition security' organized by WorldFish at Hotel Sarina, Banani, Dhaka, Bangladesh from February 1-2, 2014
- (viii) Invited as resource person in the Winter School programme on "Rice fish farming for high altitude wet rice lands" under DST Programme, Department of Zoology, Rajiv Gandhi University, 12-30 January, 2010

11. Ph.D. /Research Scholars

1. Dr. Sandip Mazumder, Awarded in 2016
2. Dr. Sudarshana Nandi, Awarded in 2018
3. Dr. Subhendu Chatterjee Awarded in 2018
4. Dr. Chandan Malick, Awarded in 2018
5. Dr. Sangita Roy, Awarded in 2022
6. Dr. Sanjit Debnath, Awarded in 2022
7. Dr. Sabarna Choudhury, Awarded in 2023
8. Miss Rajanya Mukherjee, PhD scholar
9. Shri Chinmay Barman, PhD scholar

12. Acting as a reviewer for journal

Journal of Fish Biology, Cell and Tissue, Ecology of Freshwater Fish, PlosOne, Aquatic Ecology, Reviews in Aquaculture

13. Institutional members in different Committee/Additional assignments

- (i) Member of Departmental Purchase Committee, Department of Zoology, Visva-Bharati, since 2013
- (ii) Teacher Warden, Pearson Pally Research Scholars Boys Hostel, Visva-Bharati, since 2014
- (iii) Member, NAAC Working Committee, 2019, 2020, 2021
- (iv) Member, Institutional NAAC Core Committee, 2019, 2020, 2021
- (v) Member, NAAC Visit Preparatory Committee, 2021
- (vi) Member, Institutional Admission Committee, 2019, 2020, 2021
- (vii) Member, NAAC Committee for Mock visit, Visva-Bharati, 2021
- (viii) Convener, Waste Disposal Monitoring Sub-Committee, Siksha Bhavana, Visva-Bharati, 2019
- (xi) Deputy Proctor, Visva-Bharati, since 2020
- (x) Nodal Officer, Samarth Project (for Visva-Bharati University) (2021)
- (xi) Member, Working Committee for updating Reservation Roster for teaching and non-teaching employees, Visva-Bharati (2020, 2021)
- (xii) Invited member in EWS reservation review committee, Visva-Bharati (2020)
- (xiii) Member, Working Committee for HEFA (2019)
- (xiv) Member, Committee for preparation and finalization of Tripartite MoU between Visva-Bharati, UGC and MHRD (2021)
- (xv) Member, Website Development Committee, Visva-Bharati (2020)
- (xvi) Member, DST-PURSE Project, Siksha-Bhavana, Visva-Bharati
- (xvii) Nodal Officer, CUET (PG and UG), Visva-Bharati
- (xviii) Nodal Officer, Chayan portal, UGC for Visva-Bharati
- (xviv) Member, Internal Quality Assurance Cell, Visva-Bharati (current committee)
- (xvv) Member, Admission Co-ordination Cell, Visva-Bharati (2021 onwards)
- (xvvi) Member, Woman Cell, Visva-Bharati (2024)