



**Department of Botany, North Orissa University  
Profile of Faculty**

Dr. Sudam Charan Sahu

Assistant Professor, Department of Botany

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Ph. D, Environment and sustainability Department, CSIR-IMMT, Bhubaneswar, India  
(Under Utkal University) (2007-2012)

Master of Science, Department of Botany, Ravenshaw University, Cuttack, India

Bachelor of Science, Bhadrak College, Bhadrak, India

**Area of work and specialization:** Plant Systematics, Forest Ecology, Climate change and Biodiversity conservation

**Post Doctoral Research Experience:** Centre for sustainable Technologies and Centre for Ecological Sciences, Indian Institute of Science, Bangalore, India

**Professional Awards and Fellowship recieved :**

1. Qualified UGC-NET for Assistant Professor
2. CSIR-Senior Research Fellowship
3. Research Associate from Indian Institute of Science
4. Awarded SERB-DST Young Scientist

**RESEARCH AND TEACHING EXPERIENCE:**

| Name of employer                  | Post/Designation                                    | Period From-To             |
|-----------------------------------|-----------------------------------------------------|----------------------------|
| RRL, CSIR, Bhubaneswar            | PA-II                                               | 14/03/05-30/06/07          |
| WTCER, ICAR, Bhubaneswar          | JRF                                                 | 29/01/08-14/05/09          |
| CSIR-IMMT, Bhubaneswar            | CSIR-SRF                                            | 15/05/09-14/05/12          |
| IISC, Bangalore                   | RA                                                  | 02/07/12-01/07/13          |
| IISC, Bangalore                   | Research Scientist (DST Fast Track Young Scientist) | 02/07/13- 31/03/16         |
| North Orissa University, Baripada | Assistant Professor                                 | 04/05/16 to Continuing.... |

**PUBLICATIONS**

**PAPERS PUBLISHED IN PEER-REVIEWED JOURNALS (YEAR WISE)**

**2016**

1. **Sahu S.C.**, Kumar Manish and Ravindranath N.H. (2016). "Carbon stocks in natural and planted mangrove forests of Mahanadi Mangrove Wetland, East Coast of India". *Current Science* 110(12): 2253-2260
2. **Sahu S.C.**, Suresh H.S. and Ravindranath N.H. (2016). "Forest structure, composition and above ground biomass of tree community in tropical dry forests of Eastern Ghats, India". *Not. Sci. Biol.* 8(1):125-133

## 2015

3. **Sahu S.C.**, Suresh H.S., Murthy I.K. and Ravindranath N.H. (2015). "Mangrove area assessment in India: implications of loss of mangroves". *J. of Earth Science & Climatic Change* 6(5): 1-7. ISSN: 2157-7617
4. **Sahu S.C.**, Dhal N.K. and Ravindranath N.H. (2015). "*Myriostachya wightiana* Hook. f. (Poaceae): ecology, distribution and economic importance in mangrove swamps." *International J. of Innovative and Applied Research* 3(3): 9-12. ISSN: 2348-0319
5. **Sahu S.C.**, Sharma Jagmohan and Ravindranath N.H. (2015). Carbon stocks and fluxes for Forests in Odisha (INDIA). *Tropical Ecology* 56(1): 77-85. ISSN: 0564-3295
6. Panda S.P., **Sahu S.C.** and Dhal N.K (2015). "Documentation of tribal claims for Rheumatism in Odisha, India". *International Journal of Pharmacy and Pharmaceutical Sciences* vol. 7(1): 379-384. ISSN 0975 – 1491

## 2013

7. **Sahu S.C.**, Baul A., Dhal N.K. and Rout N.C. (2013). "*Microsorium zippellii* (Bl.) Ching (Polypodiaceae), a New Distributional Record for Peninsular India". *Annals of Plant Sciences* 2(4): 114-116. ISSN: 2287-688X
8. **Sahu S.C.**, Dhal N.K., Dash S.S. and Rout N.C. (2013). "Plant diversity in CSIR-IMMT premises: A Repository of germ plasm conservation." *Nelumbo* 55: 1-40 ISSN: 0976-5069
9. **Sahu S.C.**, Pattnaik S.K., Dash S.S. and Dhal N.K. (2013). "Fibre-yielding plant resources of Odisha and traditional fibre preparation knowledge- An overview". *Indian Journal of Natural Products and Resources* Vol. 4(4): 339-347. ISSN: 0976-0512
10. **Sahu S. C.**, Sahoo K., Jee P.K. and Dhal N. K. (2013). "Floral and microbial dynamics in relation to the physico-chemical constituents of the Devi estuary of Odisha Coast of Bay of the Bangle, India". *Indian J. of Geo-Marine Science*, **42**(1): 90-96. ISSN: 0975-1013

## 2012

11. **Sahu S.C.**, Dhal N.K., Lal Brij and Mohanty R.C. (2012). "Differences in tree species diversity in a tropical sacred forest ecosystem of Niyamgiri hill range, Eastern Ghats, India" *Journal of Mountain Science* **9**: 492-500. ISSN: 1993-0321 (Springer publication)
12. **Sahu S. C.**, Dhal N. K. and Datt B. (2012). "Environmental implications of biological spectrum vis-à-vis tree species diversity of Gandhamardan hill ranges, Eastern Ghats, India." *Environmental Systems and Decisions* **32**(4):420-432. ISSN: 2194-5411 (Springer publication)

13. **Sahu S. C.** and Dhal N. K. (2012). "Floristic diversity of Mandargiri hills, Angul, Odisha: An overview". *J. Eco. & Tax. Bot.*, **36**(3): 554-562. ISSN: 0250-9768
14. **Sahu S.C.**, Dhal N.K. and Mohanty R.C. (2012). "Tree species diversity, distribution and population structure in tropical forests of Malyagiri hill range, Eastern Ghats, India" *Tropical Ecology* **53**(2): 165-170. ISSN: 0564-3295
15. Kandi B., **Sahu S.C.**, Dhal N.K. and Mohanty R.C. (2012). "Ethnomedicinal plant wealth of Sunabeda Wildlife Sanctuary, Odisha, India". *Ethnobotany*, **24**:108-113. ISSN: 0971-1252

#### 2011

16. **Sahu S. C.**, Pattnaik S.K., Sahoo S.L., Lenka, S.P. and Dhal N. K. (2011). "Ethnobotanical study of medicinal plants in the coastal districts of Odisha". *Current Botany*.**2**(7):17-20 ISSN: 2220-4822
17. Kandi B., **Sahu S.C.**, Dhal N.K. and Mohanty R.C. (2011). Species diversity of vascular plants of Sunabeda Wildlife Sanctuary, Odisha, India. *New york Science Journal*: 2011;**4**(3) ISSN: 1554-0200
18. **Sahu S. C.** and Dhal N. K. (2011). "Rediscovery of *Uraria picta* (Jacq.) Desv. ex DC. (Fabaceae)- A lesser known threatened legume from Odisha". *J. of Non Timber Forest Products* **18**(3): 243-244. ISSN: 0971-9415

#### 2010

19. **Sahu S.C.**, Dhal N.K. and Bhadra A. K. (2010). "Arboreal taxa diversity of Tropical forests of Gandhamardan Hill ranges, Eastern Ghats, India: An approach to sustainable biodiversity conservation." *Taiwania*. 55(3): 208-215. ISSN: 0372-333X
20. **Sahu, S. C.** & N. K. Dhal (2010). Status of threatened medicinal plants in north-west Orissa, Eastern Ghats, India. *Eco. Env. & Cons.* 16 (1): 49-53. ISSN: 0971-765X
21. **Sahu S.C.**, Dhal N.K. and Mohanty R.C. (2010). "Potential Medicinal plants used by the tribals of Deogarh district, Orissa, India", *Studies on Ethnomedicine*. **4**(1):53-61. ISSN: 0971-5070
22. **Sahu S.C.**, Dhal N.K. and Bhadra A. K. (2010). "Indigenous herbal treatment for Chronic Suppurative Otitis Media (CSOM) among kondh tribe of Bolangir district, Orissa, India- A case study." *Biohelica*. **1**(1): 38-40. ISSN: 0976-5204
23. Chaudhari S. K., **Sahu S.C.** and Khot A.B. (2010). "Response of French bean (*Phaseolus vulgaris*) to Irrigation Schedules phosphorus levels and phosphorus solubilizer in Vertisols". *Environment & Ecology* 28 (3B): 2141-2143. ISSN: 0970-0420
24. **Sahu S.C.**, Dhal N.K. and Mohanty R.C. (2010). "Commercialization of few wild medicinal plants from Deogarh district, Orissa, India." *e-planet*. **8**(1): 14-16. ISSN: 0974-4398
25. **Sahu S.C.**, Dhal N.K. and Rout N.C. (2010). "The Ethnobotany of *Eulaliopsis binata* (Retz.) Hubbard - Poaceae, in Orissa, Eastern India". *J. of Advances in Developmental Research*. **1**(2): 155-160. ISSN: 0976-4844
26. **Sahu S.C.**, Dhal N.K. and Mohanty R.C. (2010). "Folklore claims of a few interesting ferns from Deogarh district, Orissa, India" *Plant Science Research*. 32: 138-141. ISSN: 0972-8546

#### 2009

27. **Sahu S.C.**, Dhal N.K. and Mohanty R.C. (2009). “Ethnobotanical study of Deogarh district (Orissa) with respect to plants used for treating skin diseases” *Ethnobotany*. **21**:46-50. ISSN: 0971-1252
28. **Sahu S.C.**, Bhadra A. K., Dhal N.K. and Rout N.C. (2009). “Rediscovery of *Tephrosia tinctoria* Pers. (Fabaceae) from Orissa, India.” *Phytotaxonomy*. **9**: 72-74. ISSN: 0972-4206

#### 2007

29. **Sahu S.C.**, Dhal N.K., Reddy Ch. Sudhakar, Pattanaik C. and Brahmam M. (2007). Phytosociological Study of Dry deciduous Forest of Boudh District, Orissa, India. *Research Journal of Forestry*. **1** (2): 66-72. ISSN: 2151-8262

#### 2006

30. Bal S., **Sahu S.C.**, Dhal N.K., Rout N.C. and Panda P.K. (2006). “Ferns of Similipal Biosphere Reserve, Orissa, India”. *Trop. Med. Plants*. **7**(2): 283-289. ISSN:
31. Dhal N.K., Reddy Ch. Sudhakar, Pattanaik C., **Sahu S.C.** and Brahmam M. (2006), “*Dicoma tomentosa* Cass. and *Torenia fournieri* Linden ex Fournier – as alien weeds to the Flora of Orissa”, *Journal of Economic and Taxonomic botany*. **30** (3): 654-655. ISSN: 0250-9768
32. Brahmam M., Dhal N.K., **Sahu S.C.** and Dash S.N. (2006). “Triphala- A Wonderful Indian herbal formula for constipation, bowel cleansing and associated maladies”, *e-planet* **4** (1&2): 14-17. ISSN: 0974-4398

#### BOOK CHAPTERS PUBLISHED

1. Dhal N. K. and **Sahu S. C.** (2013). Vegetation and floristic diversity of Nawarangpur district, Odisha: A repository of threatened and industrial plants in the book “*Biodiversity in India*”, Vol.6, Chapter 3 pp 69-85, Regency Publication, India.
2. **Sahu S. C.** and Dhal N. K. (2012). “Floristic composition, diversity and status of threatened medicinal plants in tropical forests of Malyagiri hill ranges, Eastern Ghats, India.” in the book “*Tropical Forests*” edited by Padmini Sudarshana, Madhugiri Nageswara-Rao and Jaya R. Soneji, ISBN 978-953-51-0255-7, InTech, March 3, 2012.
3. Baul A., **Sahu S.C.**, Dhal N.K. and Mukherjee S. (2012). “Ethno-gynological study among the kondha tribes of Rayagada district, Orissa, India” in the proceeding volumes *Multidisciplinary approaches in angiosperm systematics* Vol II, pp.655-660 edited by G.G. Maiti and S.K. Mukherjee.

#### BOOKS/TECHNICAL MANUALS PUBLISHED/EDITED

1. Plant Science ISBN 978-953-51-0905-1, hard cover, 314 pages, Publisher: In Tech, Published, Croatia, UK: September 17, 2012; DOI: 10.5772/3007.
2. Essentials of Herbarium Techniques (A technical manual published in National workshop on “Herbarium Techniques for Bioprospecting”).
3. Granted agriculture technology and developed water technology management for different crops.
4. Disease and Pest management of different crops.

#### PROJECTS UNDERTAKEN

1. Title: “Carbon sequestration assessment and population status of threatened mangroves in Mahanadi Mangrove Wetland, Odisha-Implications for conservation and management” funded by Science and Engineering Research Board (SERB), Department of Science and Technology, New Delhi.

Period: 2013-2016

Project cost: Rs.24, 20, 645.00

**PROFESSIONAL MEMBERSHIPS**

1. Odisha Botanical Society
2. Indian Association for Angiosperm Taxonomy
3. Reviewer's of many SCI and Non-SCI Journals
4. Editor of the international book "Plant Science" In tech Publisher, Croatia, UK.