

CV of Pulak Kumar Patra

Present Position: Associate Professor

Date of Birth: 23rd April 1968

Date of Joining at Visva-Bharati :14.02.2014

Educational Qualification:

B.Sc. (Geology Hons.), 1988, Ravenshaw College, Cuttack

M.Sc. (Applied Geology), 1990, IIT, Bombay

M. Tech. (Applied Geology), 1992, IIT, Kharagpur

Ph.D., 1997, IIT, Bombay

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Research areas: Environmental Geology, Geochemistry, Environmental Meteorology, Remote Sensing & GIS Applications

Awards:

- Among the best ten (8th) candidates in Board of Secondary Education, Orissa, in 1983.
- Among the best ten candidates in UGC-CSIR (NET) Dec.1989.

Research Scholars: PhD Awarded – 06, PhD pursuing- 04

Publication

Books- 4; Referred Journals: 40, Book chapters/seminar Proceedings- 30

List of Important Publications

Books

1. P.K. Patra, 2012, A Text book on Climatology, Kalyani Publishers, Ludhiana, 255p ISBN-978-93-272-2601-0
2. P.K. Padhy, P.K. Patra and U.K. Singh (eds) 2017 Emerging Issues in Environmental Science: Concerns and Management. New Delhi Publishers, New Delhi p.321-330. ISBN: 978-93-85503771
3. P.K. Patra, 2018, Environmental Studies, Studera Press, Delhi, 390p. ISBN-9789385883118

4. Swain K.C., Chatterjee A.K., Patra, P.K. and Kandasamy P., (edited) 2020, Proceedings on Application of space and modern technology in Agriculture and Environment, Mukund Publication, Delhi-51, ISBN.978-93-84335-35-9

Journals publications in Scopus index journals (last 10 years)

1. S. Chakrabarti, P.K. Patra, B. Mandal, D. Mahato, 2012 Effect of sodium fluoride on germination, seedling growth, and biochemistry of Bengal gram (*Cicer arietinum*), *Fluoride* v.45, pp.257-262.
2. P. Pati, P.K. Patra & S. Goswami, 2013 Heavy metal Distribution in major estuaries of Northern Odisha along the East Coast of India: An Indexing approach, *International Journal of Earth Sciences and Engineering (IJEE)* v.06 (05) 1094-1102
3. S. Chakrabarti, P.K. Patra, 2013 Effect of fluoride on superoxide dismutase activity in four plant crops. *Fluoride*, 46(2):59–62
4. S. Chakrabarti, P.K. Patra and B. Mondal, 2013, Uptake of fluoride by two paddy (*Oryza sativa* L.) varieties treated with fluoride-contaminated water. *Paddy Water Environ* 11:619-62.
5. S. Chakrabarti, P.K. Patra, 2015 Biochemical and antioxidant responses of paddy (*Oryza sativa* L.) to fluoride stress. *Fluoride*, 48(1):56–61
6. S. Chakrabarti, P.K. Patra, 2016 Chemical Analysis of Ground Water of Bolpur Block, Birbhum, West Bengal, India. *Rasayan Journal of Chemistry*, 9(4): 627 – 633.
7. S. Chakrabarti, P.K. Patra, 2017 Hydrochemical analysis of ground water of Rampurhat-II block, Birbhum district, West Bengal, India, *Rasayan Journal of Chemistry* v.10: pp1424-1430.
8. Suman Samanta Patra, P.K., Banerjee, S., Narsimhaiah L. & Chandran M.A.S., Kumar V & Bandyopadhyay S., Generation of common coefficients to estimate global solar radiation over different locations of India, *Theoretical and Applied Climatology*, v136, pp 943-953; <https://doi.org/10.1007/s00704-018-2531>
9. Pal, P., Patra, P. K. and Mukhopadhyay, D., 2018 Effect of tillage and organic residues on yield of wheat (*Triticum aestivum* L.), *Res. on Crops* 19 (3) : 373-379

10. Indrani Mukherjee, Umesh Kumar Singh, Pulak Kumar Patra, 2019 Exploring a multi-exposure-pathway approach to assess human health risk associated with groundwater fluoride exposure in the semi-arid region of east India, *Chemosphere*
11. S. Samanta, S. Banerjee, A. Mukherjee, P.K. Patra and P. Chakraborty, 2019, Deriving PAR use efficiency of wet season rice from bright sunshine hour data and canopy characteristics, *Mausam*, 70, 2 (April 2019), 349-358,
12. Hossain, Mobarok and Patra, Pulak Kumar, 2020, Contamination zoning and health risk assessment of trace elements in groundwater through geostatistical modelling, *Ecotoxicology and Environmental Safety*, v.189, p1100-38.
13. D. Pal, P.K. Patra, D. Deb, R. Bhattacharya & D. Mukhopadhyaya, 2020, Effect of Land use on soil carbon fractions, *J. of Indian Soc. of Soil Sc.*, v.68, p.392-399.
14. Hossain, M. and Patra, P.K., 2019 Hydrogeochemical characterisation and health hazards of fluoride enriched groundwater in diverse aquifer types, *Environmental Pollution* doi.org/10.1016/j.envpol.2019.113646
15. Suman Samanta, Saon Banerjee, Pulak Kumar Patra, Sudhansu Sekhar Maiti and Nabansu Chattopadhyay, 2020 Choice of ideal sunshine hour-based model to predict global solar radiation in India, *Mausam*, v.71(3), p451—466.
16. Samanta, S and Banerjee, S and Mukherjee, A and Patra, PK and Chakraborty, PK , 2020, Determining the radiation use efficiency of potato grown in Eastern India from sunshine hour data: a simple approach, *Spanish Journal of Agricultural Research*, v.18(2).
17. Hossain, Mobarok and Patra, Pulak Kumar, 2020 Water pollution index--A new integrated approach to rank water quality, *Ecological Indicators*, 117, p.1066-68.
18. Hossain, Mobarok and Patra, Pulak Kumar and Begum, Syeda Nurunnesa and Rahaman, Chowdhury Habibur, 2020, Spatial and sensitivity analysis of integrated groundwater quality index towards irrigational suitability investigation, *Applied Geochemistry*, v.123, p.1047-82.

19. Hossain, Mobarok and Karmakar, Dipti and Begum, Syeda Nurunnesa and Ali, Syed Yakub and Patra, Pulak Kumar, 2021 Recent trends in the analysis of trace elements in the field of environmental research: A review, *Microchemical Journal*, p.1060-86.
20. Hossain, Mobarok and Patra, Pulak Kumar, 2021, Investigation of groundwater quality in for agricultural use in a lateritic soil belt, *Indian Journal of Environmental Protection*, v.41 p.34-41.
21. P. Bose, M. Roy and P.K Patra, 2021, Evaluation of long term different nutrient management practices on crop productivity and soil quality in rice (*Oryza sativa*)-potato (*Solanum tuberosum*)-groundnut (*Arachis hypogaea*) cropping system in new alluvial soil zone of West Bengal, India Plant Archives Vol. 21, Supplement 1, 2021 pp. 2383-2392, doi link : <https://doi.org/10.51470/PLANTARCHIVES.2021.v21.S1.390>
22. Mobarok Hossain . Pulak Kumar Patra . Buddhadev Ghosh . Amina Khatun . Sukanta Nayek, 2021 Sensitive assessment of groundwater-associated, multi-exposure health hazards in a fluoride-enriched region of West Bengal, India, *Env. Geocchem Health*, <https://doi.org/10.1007/s10653-021-00942-x>