

PRASANNA, K., PHD

Lucknow, India

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EDUCATION

- Indo-US Postdoctoral fellow at University of California, Los Angeles (UCLA)
- Indian Institute of Science (IISc) Bangalore– 560029, India

Ph.D. – Stable Isotopes, Clumped Isotopes, Triple oxygen isotopes, Oceanic carbon fluxes and Paleoclimate.

DISSERTATION

“CO₂ Ventilation, hydrological cycle over the Southern Ocean and clumped isotope thermometry in biogenic carbonates”

Advisor: Prof. Prosenjit Ghosh

RESEARCH EXPERIENCE

Sl No	Organisation	Position	Duration
1	Birbal Sahni Institute of Palaeosciences (BSIP) (Autonomous institute under Department of Science and Technology, GoI)	Scientist-C	2020- Till date
2	University of California, Los Angeles (UCLA), Los Angeles, USA	Indo-US Postdoctoral Fellow	2018- 2019
3	Birbal Sahni Institute of Palaeosciences (BSIP)	Scientist-B	2017- 2020
4	Centre For Earth Sciences, Indian Institute of Science (IISc)	Postdoctoral research associate	2016-2017
5	Centre For Earth Sciences, Indian Institute of Science (IISc)	Senior research fellow	2012-2016
6	Centre For Earth Sciences, Indian Institute of Science (IISc)	Junior research fellow	2010-2012
7	VIT University, Vellore	Project research assistant	2007-2009

PROFESSIONAL EXPERIENCE

Sl No	Organisation	Position	Duration
1	Envitec Biogas India Pvt Ltd	Project Engineer	2009-2010
2	ICICI Bank Ltd	Assistant Manager	2006-2007

		Name of course	Name of the Board/ University	Year passed	Subjects studied
1	10th Class / equivalent	SSLC	Karnataka SSLC	2000	Science
2	10+2/Higher Secondary equivalent	PUC	Karnataka state PU board	2002	Science
3	Bachelor's degree	BE	VTU, Belgaum	2006	Chemical Engineering
4	Master's degree	M Tech	VIT University	2009	Energy and Environmental Engineering
5	Doctoral degree	Ph. D.	Indian Institute Of Science	2016	Earth Sciences
6	CSIR-NET	Subject	Earth, Atmospheric, Ocean & Planetary Sciences		

Publications (Peer reviewed – SCI)

1. **Prasanna K** and Vivesh Vir Kapur (2022) Oxygen isotopic studies of a species of Pitar (Hyphantosoma) from Quilon Formation, Kerala, southwest India: Inferences on seasonality during the Miocene (late Burdigalian), *J Geol Soc India*, 98, 843–850 (2022). <https://doi.org/10.1007/s12594-022-2075-1> (IF: 1.459)
2. **Prasanna, K.**, Ghosh, P., Eagle, R. A., Tripathi, A., Kapur, V. V., Feeney, R. F., Benjamin R. Fosu, Divya Mishra. (2021). Temperature estimates of lower Miocene (Burdigalian) coastal water of Southern India using a revised otolith “clumped” isotope paleothermometer. *Geochemistry, Geophysics, Geosystems*, 22, e2020GC009601. <https://doi.org/10.1029/2020GC009601> (IF: 3.62)
3. Benjamin R. Fosu, Prosenjit Ghosh, Divya Mishra, Yogaraj Banerjee, **Prasanna K**, Amrita Sarkar. (2019) Acid digestion of carbonates using break seal method for clumped isotope analysis, *Rapid Communications in Mass Spectrometry*, Vol 33 (2), PP 203-214, ISSN:1097-0231, DOI: 10.1002/rcm.8304(IF: 2.419)
4. Prosenjit Ghosh, **K. Prasanna**, Yogaraj Banerjee, Ian S. Williams, Michael K. Gagan, Atanu Chaudhuri, Satyam Suwas. (2018) Rainfall seasonality on the Indian subcontinent during the Cretaceous Greenhouse, *Scientific Reports*.8, 8482, ISSN 2045-2322 DOI:10.1038/s41598-018-26272-0. (IF: 4.525)
5. Rahul P, **K. Prasanna**, Prosenjit Ghosh, Anilkumar N, Kei Yoshimura (2018) Stable isotopes in water vapor and rainwater over Indian sector of Southern Ocean and estimation of fraction of recycled moisture. *Scientific Reports*. 8, 7552, ISSN 2045-2322, DOI:10.1038/s41598-018-25522-5. (IF: 4.525)
6. **K. Prasanna**, Prosenjit Ghosh, S.K Bhattacharya, Rahul P, Kei Yoshimura, Anilkumar N, (2018) Moisture rainout fraction over the Indian Ocean during austral summer based

- on 18O/16O ratios of surface sea water, rainwater at latitude range of 10°N-60°S, *Journal of Earth System Science*, 127, 60, ISSN 0253-4126 DOI: 10.1007/s12040-018-0960-1. (IF: 1.104)
7. **K. Prasanna**, S.K. Bhattacharya, Prosenjit Ghosh, Sasadhar Mahata and Mao-Chang Liang, (2016) Isotopic homogenization and scrambling associated with oxygen isotopic exchange on hot platinum: studies on gas pairs (O₂, CO₂) and (CO, CO₂), *Royal Society of Chemistry-Advances*, 6, 51296; ISSN 2046-2069; DOI: 10.1039/C6RA08286F.(IF: 3.049)
 8. **K. Prasanna**, Prosenjit Ghosh, S.K. Bhattacharya, K. Mohan and N. Anilkumar, (2016) Isotopic disequilibrium in *Globigerina bulloides* and carbon isotope response to productivity increase in Southern Ocean, *Scientific Reports*. 6, 21533; ISSN 2045-2322; DOI: 10.1038/srep21533. (IF: 4.525)
 9. **K. Prasanna**, Prosenjit Ghosh, Anil Kumar N (2015), Stable isotopic signature of southern ocean deep water CO₂ ventilation, *Deep Sea Research Part II Topical Studies in Oceanography*. 118 (B, SI). pp. 177-185. ISSN: 0967-0645; DOI: 10.1016/j.dsr2.2015.04. (IF: 2.43)
 10. **K. Prasanna**, M. V. Deepthi, A. Ashamol, R. R. N. Sailaja (2013), Effect of Nanoclay Content and pH of the Medium on the Swelling Characteristics of Grafted and Cross-Linked Mixed Chitosan Derivatives, *Polymer-Plastics Technology and Engineering*, Vol 52: 352–357, ISSN: 0360-2559; DOI: 10.1080/03602559.2012.721442. (IF: 1.705)
 11. **K. Prasanna**, R. R. N. Sailaja (2012), Blends of LDPE/Chitosan Using Epoxy-Functionalized LDPE as Compatibilizer, *Journal of Applied Polymer Science*, Vol. 124, 3264–3275, ISSN: 1097-4628; DOI 10.1002/app.35262 (IF: 2.188)

Publications (Peer reviewed – Non-SCI)

12. **K. Prasanna**, Prosenjit Ghosh (2016) Atmospheric CO₂ concentration and δ¹³C values in the Indian Sector of the Southern Ocean, 2011 to 2013, pp. 43-47, Technical publication - Southern Ocean expedition 2013, ISBN: 978-93-5267-057-4.
13. **K. Prasanna**, Prosenjit Ghosh (2015) Isotopic air sea disequilibrium over Indian Ocean sector of southern ocean during austral summer 2012, PP61, Scientific Report on Southern Ocean expedition (2012) – ISBN: 978-93-5212-562-3
14. **K. Prasanna**, Prosenjit Ghosh N Anilkumar and D.V.G Dessai (2014) CO₂ uptake by southern ocean during austral summer of 2011, PP28, Scientific Report on Southern Ocean expedition (2011) – ISBN: 978-93-5156-520-8

CONFERENCE (International)

1. **Naidu P** & Kapur VV, Oxygen Isotopic Studies of a Species of Pitar (*Hyphantosoma*) from Quilon Beds, Kerala, Southwest India: Inferences on Seasonality during the Miocene, Goldschmidt Conference abstracts 2018.
2. Ghosh P, **Naidu P**, Banerjee Y, Sarkar A, Fosu B and Meeran K, New Break Seal Method for High Precision Clumped Isotope Analysis of Carbonate Reference Material, 17a/374/Mo -Goldschmidt Conference abstracts 2016.
3. Ghosh P, **Naidu P** & Banerjee Y .Clumped Isotope Thermometry on Seasonal Growth Band of Fossil Shell Revealed Occurrences of Winter Time Storm at the Dawn of Cenozoic Era, 12a/260/Mo Goldschmidt Conference abstracts 2016.
4. **K. Prasanna**, Prosenjit Ghosh, Anil Kumar N. Spatio-temporal variability in the freshwater input to the surface water of Southern Ocean C23B-0782 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.

5. **K. Prasanna**, Prosenjit Ghosh, Anil Kumar N. Carbon and oxygen isotopic disequilibrium during calcification of *Globigerina bulloides* in the Southern ocean PP53B-2326 presented at 2015 Fall Meeting, AGU, San Francisco, Calif., 14-18 Dec.
6. **K. Prasanna** and Prosenjit Ghosh, Mollusc Clumped isotope Thermometry using a new approach, Goldschmidt Conference abstracts 2013.
7. **Naidu, P K**, Ghosh, P, Kumar N, A, Biogeochemical response of Southern Ocean due to melting of Antarctic glaciers, Abstract PP23D-2077 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
8. **Kannan, P**, Vanhove, D, Ghosh, P, Early Eocene SST recorded in clumped isotopic ratios of fish otoliths of North Sea Basin, Belgium, Abstract PP23E-05 presented at 2012 Fall Meeting, AGU, San Francisco, Calif., 3-7 Dec.
9. **Prasanna Kannan** and Prosenjit Ghosh, Revisiting calibration of CO₂ based Clumped isotope thermometry - equilibration approach. EGU, 2011

CONFERENCE (National)

1. **K Prasanna**, Prosenjit Ghosh and Anil Kumar N, World Ocean Science Congress (WOSC-15), Stable isotopic signature of deep water CO₂ ventilation over Southern Ocean, WOSC/TS-10/PS/16
2. Prosenjit Ghosh, **Prasanna.K**, Yogaraj Banerjee, Mathew K.A. Clumped Isotope Thermometry- Technical Development and Application, IGU, 2013.

INVITED TALKS AND PRESENTATIONS

1. "Stable isotopic signature of southern ocean deep water CO₂ ventilation" presented at The Energy and resources institute (TERI) on February 8, 2014.
2. "Isotopic disequilibrium in *Globigerina bulloides* and applications of clumped isotope thermometry" presented at Birbal Sahni Institute of Palaeosciences (BSIP) on October 28, 2016.
3. "Isotopic studies on Cochin estuary" presented at Geology Department, Kerala University on October 21, 2017

Awards

1. Indo-US Postdoctoral Fellowship- 2018
2. Academia Sinica Postdoctoral Research Fellowships (D) -2017
3. SERB – International Travel Support -2016
4. Geochemical Society Goldschmidt Conference - 2013.