RAJ KUMAR SINGH

Associate Professor (Geology) and Head
School of Earth, Ocean and Climate Sciences,
Indian Institute of Technology Bhubaneswar, Odisha, India
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Orcid profile: https://orcid.org/0000-0003-2900-7145

Educational Qualification

Degree	Discipline	Year	University/Institute
Ph.D.	Geology and Geophysics	2009	Indian Institute of Technology Kharagpur
M.Sc.	Geology	2001	Banaras Hindu University, Varanasi
B.Sc.	Phy, Maths, Geology (Hons)	1999	North Eastern Hill University, Shillong

Current Research Interest

1. Reconstruction of Paleoclimate and Paleo-Ocean using foraminifera and other marine proxies (Focused on high latitude Paleoceanographic reconstruction).
2. Reconstruction of Paleomonsoon using foraminifera and speleothem proxies and influence of orbital variability in longer time scale and shorter time scale.
3. Orbital scale variability in paleoceanographic changes
4. Assessing coastal processes and their environmental implications using biological, sedimentological and geochemical proxies

Awards/Honours

- Selected as Shipboard Scientist of IODP Expedition – 383, 2019
- Executive Council Member The Paleontological Society of India 2016-18, 2018-20, 2024-26
- Selected for INSA, New Delhi, International Collaborative/Exchange Program-2015
- Selected as Shipboard Scientist of IODP Expedition – 346, 2013
- Mani Shankar Shukla Gold Medal of The Paleontological Society of India - 2013
- Qualified GATE, 2002.
- Qualified CSIR-JRF, December 2001.
- Qualified UPSC Geologist Examination 2001.
- La-Touche Medal in Geology, for 2000 – 2001 from MGMI.
- B.H.U. medal for securing highest marks in M.Sc. (Geology) Examination 2001
- Late Prof. Rajnath Medal for securing highest marks in Paleontology in M.Sc. (Geology) Examination 2001
- Second Rank in B.Sc. (Geology) Examination of N.E.H.U., Shillong, 1999

Research/Career profile

- **Shipboard Scientist**, International Ocean Discovery Program (IODP) expedition - 383 (Dynamics of Antarctic Pacific Circumpolar Current; May – July 2019)
- **Guest Scientist**, Institute of Geosciences, Christian Albrechts University Kiel, Germany (May – July 2015)
- **Shipboard Scientist**, Integrated Ocean Drilling Program (IODP) expedition – 346 (Asian Monsoon; July – September 2013)

- **Associate Professor**, School of Earth, Ocean and Climate Science, IIT Bhubaneswar (October 2022 - Onwards)

- **Assistant Professor**, School of Earth, Ocean and Climate Science, IIT Bhubaneswar (May 2013 –October 2022)
- **Scientist 'B'**, Wadia Institute of Himalayan Geology, Dehradun (September 2011 to May 2013)
- **Scientist 'B'** Central Ground Water Board, Ministry of Water Resources, Govt. of India (January 2008 to September 2011)
- **Assistant Hydrogeologist**, Central Ground Water Board, Ministry of Water Resources, Govt. of India (January 2004 to December 2007)
- **Junior Research Fellow (CSIR),** Department of Geology and Geophysics, Indian Institute of Technology, Kharagpur (March 2002 to January 2004)

Membership

(a) Geological Society of India, Bangalore (Life member L- 1814)
(b) Indian Geological Congress, Roorkee (Life member LM- 793)
(c) The Paleontological Society of India, Lucknow (Life fellow)
(d) Himalayan Geology, WIHG, Dehradun (Life member LTSS-461/2017)
(e) Ocean Society of India (Life member LM- 632)
(f) Association of Quaternary Researchers, India (AOQR83659777)
(g) Fellow of the Gondwana Geological Society, Nagpur (733)
(h) Cushman Foundation for Foraminiferal Research (Annual member)
(i) The Micropalaelontological Society (Annual Member)
(j) Editorial Board, Scientific Report (Nature Publishing Group)

Institute Administrative Responsibilities

i) **at Department Level**

a. Faculty Advisor 2013-2024
b. Placement coordinator (Geology) (2014 - 2023)
c. School Academic committee member (2013 - Continue)
d. School Purchase committee member (2013 - Continue)
e. School Time table coordinator (2019 – 2021; For Geology 2015-2023)
f. Fieldwork-In charge (2013 - 2023)
g. Establishing various geological laboratories at SEOCS
h. Incharge of various laboratories
i. Faculty/Ph.D./PDF shortlisting committee (Geology), at SEOCS (2015 onwards)
j. JAM screening (2015 -2022, except 2019)
k. Research Scholar coordinator (Geology) (2023- 2024)

ii) **at Institute Level**

a. Head, School of Earth, Ocean and Climate Sciences, IIT Bhubaneswar, June 2025-
b. Professor-In-Charge Counseling Services, IIT Bhubaneswar, Nov 2021-Nov 2024
c. Professor-In-Charge Rajbhasha Ekak, IIT Bhubaneswar, March 2015 – October 2021
d. Look after Town Official Language Implementation Committee (TOLIC) on behalf of TOLIC Chairman – (2016-2019)
e. Member Research Progress Evaluation Committee of the IIT Bhubaneswar (2017 - 19)
f. Member Helpdesk – 2020 - 2022
g. Member convocation committee – 2020, 2021, 2022, 2024
h. Institute Representative/Deputy Centre Superintendent, JEE, JAM, GATE, NEET etc.
i. Faculty member Unnat Bharat Abhiyan, since July 2021 – July 2025
j. Members of various staff and official shortlisting and selection committees since 2014
k. Member Institute Disciplinary and Anti-Ragging Committee since Nov 2021- Nov 2024
l. Member VMC, KV IIT Bhubaneswar since January 2023
m. Coordinator Dias management during 100 Cube event, February 2024

Ongoing/Completed Sponsored Research Projects

Completed

(a) Paleoclimatology and Paleoceanography of the Japan Sea
SRIC, Indian Institute of Technology Bhubaneswar (Role : PI) : Amount 10 Lakhs

(b) Millennial to centennial scale variability in the Asian summer monsoon: Foraminiferal perspective from the East China Sea
NCAOR, Goa, MoES, Govt. of India (Role : PI): Amount 27.74 Lakhs

(c) Assessing Holocene climate variability and coastal environment in the Bay of Bengal using geochemical and biological proxies, (Part of BoBCO project) MoES, Govt. of India (Role : Co-PI; PI of subproject A8): 923 Lakhs

(d) Middle Pleistocene to Holocene dynamics of Antarctic Circumpolar Current and its implications to global climate: Evidence from Southern Pacific
SERB, DST, Govt. of India (Role : PI): Amount 40.72 Lakhs

(e) Pliocene dynamics of the southern Pacific and its linkages with the low latitude climate
NCPOR, Goa, MoES, Govt. of India (Role : PI): Amount 16.67 Lakhs

(f) Biostratigraphic and Sedimentological evaluation of Mahanadi basin using drilling Records. Oil India Limited, Role: PI, Amount 12.8 Lakh

(g) Developing multi-disciplinary observations and novel datasets across the humanities and geosciences to address cyclone risk in northeast India
MoE, AcRF, NTU Singapore (Role: Collaborator): Amount 1.98 Lakhs SGD.

Continuing

(h) Coastal Carbon Dynamics (CCD) in the Bay of Bengal off Mahanadi River
NRSC, Hyderabad, ISRO (Role: Co-PI): Amount 58.04 Lakhs

(i) Coastal Odisha Systematic Mapping, Monitoring & Observations for Sustainable Development
Department of Science and Technology, Govt. of Odisha (Role: Co-PI): Amount 1400 Lakhs

(j) Development of a fly ash atlas and comprehensive audit framework for Odisha,
State Pollution Control Board, Govt. of Odisha (Role: Co-PI): Amount 299 Lakhs

(k) Development and delivery of mobile application and web based dashboard
State Pollution Control Board, Govt. of Odisha (Role: Co-PI): Amount 168 Lakhs

(l) Antarctic Circumpolar Current characteristics variability over the last 600 kyr and its numerical modelling: Implications on global climate
ANRF- ARG (Role: PI): Amount ~82 Lakhs

Research Supervision/Co-Supervision

Ph.D.

Completed and Awarded

1. **Manisha Das (Funding: DST INSPIRE)**

Title: Assessing Pleistocene to Holocene oceanographic and climatic variabilities in the Japan Sea using foraminifera and sedimentological proxies (2021); (Co-supervisor: Dr. S.H.Farooq)

2. **S. Sova Barik (Funding: Institute)**

Title: A multi-proxy approach to assess the coastal lagoon environment and its implication on late Holocene monsoon variability over Mahanadi basin (2021); (Co-supervisor: Prof. S. Tripathy)

3. **Nishant Vats (Funding: CSIR)**

Title: Paleoceanographic changes in the East China Sea over last 400 kyr and its linkages with East Asian Summer monsoon and Kuroshio Current variability (2022)

4. **Sunil Kumar Das (Funding: DST INSPIRE**)

Title: Deep sea paleoceanographic variability in the central and eastern Southern Pacific Ocean since the Late Miocene (2025)

5. **Nirakara Mahanta (DST INSPIRE-SRF)**

Title: Paleoceanographic variability in the Southern Ocean during the Pleistocene and its impact on low latitude climate (Submitted)

Continuing

1. Sunita Rath (DST INSPIRE-SRF)
2. Suman Datta (Institute-SRF)
3. Bisweswar Sahoo (Institute-SRF)
4. Anmol Prakash (Industry-sponsored scholar – Coal India Ltd.)
5. P.K. Jha, IFS (Working Professional)
6. Arghyadip Ghosh

Master Dissertation

List of M.Sc. Project Dissertation thesis supervised (Position after M.Sc. within a bracket after name)

1. **Abhijith U.V**. (Ph.D., Antarctic Research Centre, Victoria University Wellington) - Study of late Quaternary Asian monsoon variation using sediments from IDOP Site U1429A, East China Sea (2013-15 batch)
2. **Avirup Kanjilal** (Private Job)- Assessment of Holocene paleoceanographic variations in Japan Sea using foraminifera proxy from IODP EXP-346 Hole U1426A (2013-15 batch)
3. **S. Sova Barik** (Ph.D. SEOCS, IIT Bhubaneswar) - Assessment of Chilika lake sediments as paleo-proxy for climate reconstruction (Co-supervisor : Prof. S. Tripathy) (2013-15 batch)
4. **Alok Ranjan** (Asst. Geologist GSI)- Understanding deep water formations in Japan Sea using micropalaeontological proxies (2014-16 batch)
5. **B. Bhabesh Bal** (Geologist, DMG, Govt.of Odisha)- Centennial to decadal scale variability in early to middle Holocene monsoon record (2014-16 batch)
6. **Dipak Mahto** (Geologist, Coal India Limited) - Grain size characterization and provenance study in Chilika lake (Co-supervisor: Prof. S. Tripathy) (2014-16 batch)
7. **Puja Dey** (Ph.D., IIT Kharagpur) - Ground water recharge along Kuakhai River Bank (Co-supervisor: Dr. A.K. Rai) (2014-16 batch)
8. **Abhas Pran Gogoi** - A comparative study of aquifer characterisation for Kuakhai river bank (non-coastal) and Maccha gaon region (coastal) of Odisha by using Resistivity method (Main supervisor: Dr. A.K. Rai) (2014-16 batch)
9. **Archan Ganguly** (JRF, ISI Kolkata) - Grain size distribution and provenance characterization in Paradip estuary of Mahanadi basin, India (Co-supervisor: Dr. S. Sil) (2015-17 batch)
10. **Joyita Chattaraj** (JRF, ISI Kolkata; Consultant at L&T Technology Services) - Grain size analysis and sediment characterisation of northern and outer channel of Chilika lake, India. (Co-supervisor: Dr. S. Sil) (2015-17 batch)
11. **Partha Sarthi Jena** (Ph.D. PRL, Ahemdabad) - Seasonal variability of benthic microorganism in the Chilika lake and its environmental implication (Co-supervisor: Dr. S. Sil) (2015-17 batch)
12. **Ratikant Khuntia** (Geologist, ONGC) - Observed physio-chemical variability of estuary and sea water at Paradip, Odisha (Main supervisor – Dr. S. Sil) (2015-17 batch)
13. **Sreya Sengupta** (Ph.D., IIT Kharagpur) - Understanding of carbon compensation depth fluctuation in Japan Sea using microfossil and IRD proxies (2015-17 batch)
14. **Ankita Nandi** (Ph.D., IIT Kharagpur) - Structure and petrography of Angul domain, Eastern ghats mobile belt (Co-supervisor: Prof. Saibal Gupta, IIT Kharagpur) (2016-18 batch)
15. **Asmita Singha Roy** (Asst. Manager, Geology, Vedanta) - Pseudotachylytes of the Ambaji granulites, Aravalli Delhi mobile belt, north west India: petrographical, geochemical, size distribution and roundness study of clasts (Co-supervisor: Prof. T. K. Biswal, IIT Bombay) (2016-18 batch)
16. **Divya, R.V.** (JRF, IISC Bangalore; JRF IIT Gandhinagar) - Mid-Pleistocene to Recent paleoclimatic variations in the Japan Sea using foraminifera and IRD proxies (2016-18 batch)

17. **Krity Sharma** (Asst. Manager, Geology, Vedanta) - Assessment of seasonal variations in Northern Chilika Lake using sediment grain Size, sediment quality and clay minerals; and their implications (2016-18 batch)
18. **Sangeeta Mistry** (Geologist, ONGC) - Petrography and geochemistry of Cretaceous Bhuj formation, Kutch, India (Co-supervisor: Prof. S. Banerjee, IIT Bombay) (2016-18 batch)
19. **Subha Kundu** (Ph.D. IIT Roorkee) - Petrological evaluation of Brunei Hills and its surroundings Eastern Ghats province rocks (Co-supervisor: Prof. Saibal Gupta, IIT Kharagpur) (2016-18 batch)
20. **Pratik Upadhyaya** (M.Tech, IIT Kharagpur, GSI) - Sediment characterisation of Japan Sea over past 300 ka and its paleoclimatic implication (2017-19 batch)
21. **Lisantaraj Biswal** (M.Tech, IIT Kharagpur, GSI) - Characterization of Japan Sea Sediments between 600 and 300ka and its Implication to Paleoceanography (2017-19 batch)
22. **Soumen Roy** (Private Job) - Northern Japan sea sediment characterisation during the middle Pleistocene transition (2018-20 batch)
23. **Neha Chauhan** - Middle to Late Pleistocene variability in the Antarctic Circumpolar Current – A benthic foraminiferal perspective (2018-20 batch)
24. **Nihal** – To assess the Foraminifera distribution in the southern Pacific Ocean sediments and role of Antarctic Circumpolar Current (ACC) (2019-21 batch)
25. **Abhilash Ghana** (Asst. Manager, Geology, Vedanta) - Assessment of recent behaviour of sedimentation pattern in Mahanadi river basin (2019-21 batch)
26. **Pragati Gautam (**GSI**)** - Late Pleistocene to Holocene paleoceanographic changes near the Drake Passage (2020-22 batch)
27. **Naveena Rashmi K.R**. (JRF, VIT Chennai) - Paleoceanographic changes near the Drake Passage during the Late Pleistocene (2020-22 batch)
28. **Bhagbat Sahu** (M.Tech. IIT Kharagpur; GSI) - Assessment of changes in sedimentation behavior in the Japan Sea in response to Middle Pleistocene Transition (2020-22 batch)
29. **Swatilekha Bakshi** (Assistant Manager, Geology, Vedanta) - Assessing sedimentation pattern in the Mahanadi and Subarnarekha estuaries of the East Coast of India (2021-23 batch)
30. **Vireswar Samanta** (RS, NGRI**),** Assessment of sediment provenance and influence of paleoclimatic variability on depositional conditions at the Chilean Continental Margin in the last 400 ka (2021-23 batch)
31. **Basanti Murmu (**Asst. Manager, OMC**),** Sea Surface Condition Variations In Japan Sea During The Initiation Of Middle Pleistocene Transition (2021-23 batch)
32. **S. Soham Mohanty** (Assistant Manager, Geology, Vedanta) Assessing the role of bottom water current in sediment deposition pattern at the Drake Passage (2021-23 batch)
33. **Sayani Chatterjee,** (JRF, NISER), Modelling Archaean Mantle Melting (2021-23 batch)
34. **Anusri Saha** (Ph.D. IISC Bangalore) - A comparative study of various sea surface temperature reconstruction methods – A case study from East China Sea (2021-23 batch)
35. **Asish Mahanta** (M.Tech. IIT Kharagpur), Assessing the Depositional Environment of Talcher Basin; A Multiproxy Approach (2021-23 batch)
36. **Sourav Kumar Naik** A study on megaflora and lithofacies assemblages of Barakar sediment, Ananta colliery, Talcher Coalfield, Odisha (2021-23 batch)
37. **Rajalakshmi**, **S** (Asst. Manager, GMDC) Paleoenvironmental and paleodepositional conditions of Late Cretaceous Early Paleogene sediments of Cauvery basin (2022-24 batch)
38. **Sheetal Samal** (PhD. University of Cologne) Assessment of Middle Pleistocene Transition (MPT) on sea surface condition in the Japan Sea (2022-24 batch)
39. **Surarsi Pal** (Asst. Manager, Vedanta) Late Miocene Paleoceanographic variability in the Central South Pacific Ocean (2023-25 batch)
40. **Adarsh Shrivastava** Seasonal variability in sediment characteristics and mineral composition in Mahanadi estuary (2023-25 batch)
41. **Md. Ibrahimul Bari** Assessment of Mid Pleistocene Transition on variability of nannofossil proxies in Central South Pacific Ocean (2023-25 batch)
42. **Shruti Upadhya**y – Continuing
43. **Shardha Pancheswar** – Continuing

44. **Tamanna Kansarali** - Continuing

Other Alumni: Cima, J. Tirkey (Private), Prabhakar Nayak (Coaching), Sibasish Mishra (Private), Saurabh Sinha (GSI)

Reviewers:

1. Research paper submitted to Earth and Planetary Science Letters; Geophysical Research Letters; Climate of the Past; Science of The Total Environment; Palaeogeography Palaeoclimatology, Palaeoecology; Journal of Asian Earth Sciences, Geological Journal; Marine Micropaleontology; Journal of Foraminiferal Research; Journal of The Palaeontological Society of India; Proceedings of the Indian National Academy of Sciences; Journal of Earth System Sciences; Regional Journal of Marine Studies; Frontiers of Marine Sciences; Frontiers of Earth Sciences; Marine Pollution Bulletin, Earth System Science Data, Holocene, Geology, Ecological Indicator, Journal of Sea Research, etc...
2. Research proposal submitted to the Department of Science and Technology, Ministry of Earth Sciences, Education Ministry Govt. of India.

Co-Convener/Co-Chair session/Invited Speaker in seminar and symposia

1. Invited talk as resource person and chaired a session in International Conference on Recent Advances in Geochemistry at Department of Geology, Fakir Mohan University, Balasore, Odisha, 17-18th January 2026.
2. Chaired a session in International conference on Thought, Perception and Reality 2025, 27-28th December 2025, IIT Bhubaneswar.
3. Invited speaker and session chair In National Seminar on "Recent Trends and Developments in Earth Science" 12-13th February 2025 at Department of Geology, Khallikote Unitary University, Berhampur.
4. Invited speaker to International Conference on Coastal Dynamics: Geology, Economy and Environment, 8-10th January 2025 at F. M. University, Balasore
5. Co-Chair a session In 29th Indian Colloquium of Micropaleontology and Stratigraphy, during 17 – 19th October 2024 at University of Delhi
6. Delivered a keynote address In 29th Indian Colloquium of Micropaleontology and Stratigraphy, during 17 – 19th October 2024 at University of Delhi
7. Delivered invited talk in Monsoon Seminar Series 2022 (https://www.youtube.com/watch?v=exL_R1RCshM&t=5s); Most popular talk of this series on YouTube.
8. Delivered Keynote address In 28th Indian Colloquium of Micropaleontology and Stratigraphy, during 4 – 6th May 2022 at Savitribai Phule Pune University Pune.
9. Co-convener of symposia 22.2 Evolution of Monsoon Variability on Tectonic Scale during the Cenozoic in 36th International Geological Congress.
10. Co-Chair a session In National Conference on Earth System Science with special reference to Himalaya: advancement and challenges, during 16 – 18th May 2018 at Wadia Institute of Himalayan Geology, Dehradun
11. Co-Chair a session In 26th Indian Colloquium of Micropaleontology and Stratigraphy, during 17 – 19th August 2017 at Department of Geology, University of Madras
12. Co-Chair a session in Quaternary Climate: Recent Findings and Future Challenges, 28-30 April 2016 at the National Institute of Oceanography Goa.
13. Co-Chair a session In 24th Indian Colloquium of Micropaleontology and Stratigraphy during 18 – 20th November 2013 at Wadia Institute of Himalayan Geology, Dehradun

Research Profile :

Google scholar Profile : https://scholar.google.com/citations?user=-GW2UG4AAAAJ&hl=en&authuser=2
Researchgate Profile : https://www.researchgate.net/profile/Raj-Singh-28
Scopus : https://www.scopus.com/authid/detail.uri?authorId=55630332400
Citation as per Google Scholar 1729+; H-index - 23

No. of Research paper Scopus Journals: 48; Book Chapters: 24; Preliminary Report/Proceedings: 4; Conference/Seminar/Workshops: ~100+

Publications under review: ($ are Master or Ph.D. students)

1. Kumar, R., Switzer, A.D., Nurgraha, A.M.S., Rath, S$., Banerjee, S., **Singh, R.K**., Prizomwala, S., Brill, D., Bristow, C.S., 2025. Geological Records of Past Cyclones Preserved in a Beach Ridge System on the Bay of Bengal, East Coast of India. Earth Surface Processes and Landforms
2. Rath, S$., Datta, S$., Panda, P$., Mishra, A$., Farooq, S.H., Biswal, T.K., Saikia, M., **Singh, R.K**. (2025) Dynamic coupling among tectonic, sea-level, and climate in shaping the passive-margin basin along the East Coast of India till Early Miocene. Journal of Paleogeography
3. Datta, S$., Rath, S$., Mahanta, N$., Sahoo, B$., Das, S.K$., **Singh, R.K**. (2025). Influence of Antarctic Circumpolar Current frontal migration across the Mid-Brunhes Transition and its linkages with inter-basin deep-sea paleoceanography. Global and Planetary Change
4. Mishra, R.L., Mishra, A., Morthekai, P., Yadava, M.G., **Singh, R.K**., Debata, R., Panda, S., Nayak, B., Maisnam, D., (2025). Observations on a Late Medieval Megaflood in the Lower Mahanadi Valley, Eastern India. Evolving Earth

Publications: ($ are Master or Ph.D. students)

1. Sahoo, B$., Samal, S$., Murmu, B$., Das, S.K$., Datta, S$., Rath, S$., Mahanata, N$., **Singh, R.K.,** 2025. Japan Sea surface paleoceanography and productivity variations through the Middle Pleistocene Transition. Quaternary International, 750, 110032. https://doi.org/10.1016/j.quaint.2025.110032 **[IF – 1.8]**
2. Das, S.K$., Datta, S$., Mahanta, N$., **Singh, R.K**., 2025. Five-million-year deep-ocean paleoceanographic variability at the Central South Pacific: Insights from agglutinated foraminiferal assemblages. Palaeogeography, Palaeoclimatology, Palaeoecology, 680, 113356. https://doi.org/10.1016/j.palaeo.2025.113356 **[IF – 2.7]**
3. Rath, S$., Barik, S.S$., Nugraha, A.M.S., Datta, S$., Switzer, A.D., **Singh, R.K**., 2025. Impact of sea mouth shift in shaping the depositional and ecological condition of the seaward region of Chilika Lagoon over the last ~200 years. Journal of the Palaeontological Society of India, 70 (2), 481-489. https://doi.org/10.1177/05529360251406714 **[IF – 0.6]**
4. Vats, N$., Bhaumik, A.K., Gupta, A.K., Das, M$., Mohanty, S., **Singh, R.K.**, 2025. Correspondence of ENSO-like processes to the thermocline planktic foraminifera in the East China Sea over the last 400 ka. Journal of the Palaeontological Society of India, 70(2), 384-393. https://doi.org/10.1177/05529360251405609 **[IF – 0.6]**
5. Mahanta, N$. Sahoo, B$., Das, S.K$., Datta, S$., Rath$, S., Singh, R.K., 2025. Bottom water characteristics and paleoceanographic evolution of Central Southern Pacific Ocean across the Mid-Brunhes Transition. Global and Planetary Changes, 255, 105087. https://doi.org/10.1016/j.gloplacha.2025.105087 [IF - 4.0]
6. de Castro, M.J., Venancio, I.M., Santos, T.P., Lessa, D.V., Ballalai, J.M., Albuquerque, A.L.S., IODP Expedition 383 scientists (including **Singh, R.K**.), 2025. Migration of oceanic fronts in the Pacific Southern Ocean during the Mid-Pleistocene transition. **Marine Micropaleontology**. 200, 102501. https://doi.org/10.1016/j.marmicro.2025.102501**[IF – 1.6]**
7. Datta, S$., Mohanty, S.S.S$., Das, S.K$., Sahoo, B$., Gautam, P$., Ashmi, N$., Kumar, P., Rath, S$., Mahanta, N$., **Singh, R.K**., 2025. Ecological variability at the Drake Passage over the last 200 ka glacial-interglacial intervals. Journal of the Palaeontological Society of India. https://doi.org/10.1177/05529360251408165 **[IF – 0.6]**
8. Mahanta, N$., Das, S.K$., **Singh, R.K.,** 2025. Central South Pacific bottom water response to thermohaline circulation crisis during the Mid-Pleistocene Transition. Quaternary Science Review. 357, 109344. https://doi.org/10.1016/j.quascirev.2025.109344 **[IF – 3.3]**
9. Palar, B., Gupta, A.K., Sanyal, P., Kumar, P., Jaiswal, M.K., **Singh, R.K**., Dash, M. K., Sharma, R., 2025. Multi-proxy record of monsoon variability since ~1300 AD from Anshupa lake, Core Monsoon Zone.

Palaeogeography, Palaeoclimatology, Palaeoecology, 661, 112718. https://doi.org/10.1016/j.palaeo.2025.112718 **[IF – 2.7]**

10. Duarte, K.O., Venacio, I.M., Expedition 383 Scientists (Including R.K.Singh), 2025. Glacial-interglacial changes in Antarctic Intermediate Water advection in the Southeast Pacific during the last 787 kyr. Global and Planetary Change, 245, 104695, https://doi.org/10.1016/j.gloplacha.2025.104695 **[IF – 4.0]**

11. Datta, S[$]., Das, S.K[$]., Samanta, V[$]., Rath, S[$]., **Singh, R.K.,** Kumar, P., Venancio, I.M., Alvarez Zarkian, C., Lamy, F., Winckler, G., 2025. Paleoceanographic changes in the Southeastern Pacific over the last ~400 ka and its linkage with the Antarctic Circumpolar Current and Patagonian Ice Sheet. Palaeogeography, Palaeoclimatology, Palaeoecology. 659, 112631, https://doi.org/10.1016/j.palaeo.2024.112631 **[IF – 2.7]**

12. Das, S.K[$]., **Singh, R.K.,** Saavedra-Pellitero, M., Gottschalk, J., Alvarez Zarikian, C., Lembke-Jene, L., Lamy, F., Winckler, G., Exp 383 scientists, 2024. Recent deep-sea nematodes and agglutinated foraminifera select specific grains and bioclasts from their environments: Ecological implications. Marine Micropaleontology, 192, 102409. https://doi.org/10.1016/j.marmicro.2024.102409 **[IF – 1.6]**

13. Das, S.K[$]., Mahanta, N[$]., Sahoo, B[$]., **Singh, R.K.,** Alvarez Zarikian, C., Tiwari, M., Vats, N[$]., Nihal[$], Exp 383 scientists, 2024. Late Miocene to early Pliocene evolution of the Central South Pacific: A deep-sea benthic foraminiferal perspective. Palaeogeography, Palaeoclimatology, Palaeoecology, 647, 112252. https://doi.org/10.1016/j.palaeo.2024.112252 **[IF – 2.7]**

14. Middleton, J. L., Gottschalk, J., Winckler, G., Hanley, J., Knudson, C., Farmer, J.R., Lamy, F., Lisiecki, L.E., and Expedition 383 Scientists (including **R. K. Singh**) 2024. Evaluating manual versus automated benthic foraminifera $\delta^{18}O$ alignment techniques for developing chronostratigraphies in marine sediment records. Geochronology, 6(2), 125-145. https://doi.org/10.5194/gchron-6-125-2024 **[IF – 2.5]**

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