

RESEARCH PUBLICATIONS

Papers Published

1. Adlakha, V., Patel, R.C., Kumar, A. & Lal, N. 2018: Tectonic control over exhumation in the Arunachal Himalaya: new constraints from Apatite Fission Track Analysis. Geological Society of London, Special Publication, 481, SP481.1
2. Ahmad, R., Chauhan, P. & Srivastava, S.K. 2018: Groundwater study in eastern Dehradun valley and adjoining areas using remote sensing and GIS observations. *Himalayan Geology*, 39(2), 212-222.
3. Bhandari, A., Kay, R.F., Williams, B.A., Tiwari, B.N., Bajpai, S. & Hieronymus, T. 2018: First record of the Miocene hominoid *Sivapithecus* from Kutch, Gujarat state, western India. *PLoS ONE* 13(11): e0206314.
4. Bora, D.K., Hazarika, D., Paul, A., Borah, K. & Borgohain, J.M. 2018: Shear wave splitting and crustal anisotropy in the Shillong-Mikir plateau of Northeast India. *Pure and Applied Geophysics*, 175(1), 243-255.
5. Dosseto, A., May, J.H., Choi, J.H., Swander, Z.J., Fink, D., Korup, O., Hesse, P., Singh, T., Mifsud, C. & Srivastava, P. 2018: Late quaternary fluvial incision and aggradation in the Lesser Himalaya, India. *Quaternary Science Reviews*, 197, 112-28.
6. Dutt, S., Gupta, A.K., Bernd, W. & Dada, Yan 2018: A long arid interlude in the Indian summer monsoon during ~4,350 to 3,450 cal. yr BP contemporaneous to displacement of the Indus valley civilization. *Quaternary International*, 482, 83-92.
7. Dutt, S., Gupta, A.K., Singh, A., Singh, M., Jaglan, S., Saravanan, P., Balachandiran, P. & 2019: Climate variability and evolution of the Indus civilization. *Quaternary International*, 507, 15-23.
8. Garg, S., Shukla, A., Mehta, M., Kumar, V., Samuel, S.A., Bartarya, S.K. & Shukla, U.K. 2018: Field evidences showing rapid frontal degeneration of the Kangriz glacier, western Himalayas, Jammu & Kashmir. *Journal of Mountain Science*, 5(6), 1199-1208.
9. Gautam, P.K., Chauhan, V., Sathyaseelan, R., Kumar, N. & Pappachen, J.P. 2018: Co-seismic ionospheric GPS-TEC disturbances from different source characteristic earthquakes in the Himalaya and the adjoining regions NRIAG. *Journal of Astronomy & Geophysics*, 7, 237-246.
10. Ghosh, R., Srivastava, P., Shukla, U.K., Singh, I., Champati-Ray, P.K. & Sehgal, R.K. 2018: Tectonic forcing of evolution and Holocene erosion rate of ravines in the Marginal Ganga Plain, India. *Journal of Asian Earth Sciences*, 162, 137-147.
11. Gupta, S. & Kumar, K. 2019: Precursors of the Paleocene-Eocene Thermal Maximum (PETM) in the Subathu Group, NW sub-Himalaya, India. *Journal of Asian Earth Sciences*, 169, 21-46.
12. Hajra, S., Hazarika, D., Bankhwal, M., Kundu, A. & Kumar, N. 2019: Average crustal thickness and Poisson's ratio beneath the Kali River Valley, Kumaun Himalaya. *Journal of Asian Earth Sciences*, 173, 176-188.
13. Hazarika, D., Hajra, S., Bankhwal, M., Verma, S., Yadav, D.K. & Kumar, N. 2018: Crustal structure beneath Multi-parametric Geophysical Observatory at Ghuttu, Garhwal Himalaya. *Himalayan Geology*, 39(2), 233-241.
14. Khan, Z., Ahmad, A.H.M., Sachan, H.K. & Quasim, M.A. 2018: The effects of diagenesis on the reservoir characters in Ridge Sandstone of Jurassic Jumara Dome, Kachchh, Western India. *Journal of the Geological Society of India*, 92(2), 145-156.
15. Koenigswald, W.V., Rose, K.D., Holbrook, L.T., Kumar, K., Rana, R.S. & Smith, T. 2018: Mastication and enamel microstructure in *Cambaytherium*, a perissodactyl-like Ungulate from the early Eocene of India. *Paläontologisches Zeitschrift*, 92(4), 671-680.
16. Kotla, S.S., Patnaik, R., Sehgal, R.K. & Kharya, A. 2018: Isotopic evidence for ecological and climate change in the richly fossiliferous Plio-Pleistocene Upper Siwalik deposits exposed around Chandigarh, India. *Journal of Asian Earth Sciences*, 163, 32-42.
17. Kumar, A., Gupta, A.K., Bhambri, R., Verma, A., Tiwari, S.K. & Asthana, A.K.L. 2018: Assessment and review of hydrometeorological aspects for

- cloudburst and flash flood events in the third pole region (Indian Himalaya). *Polar Science*, 18, 5-20.
18. Kumar, A., Verma, A., Gokhale, A.A., Bhambri, R., Misra, A., Sundriyal, S., Dobhal, D.P. & Kishore, N. 2018: Hydrometeorological assessments and suspended sediment delivery from a central Himalayan glacier in the upper Ganga basin. *International Journal of Sediment Research*, 33(4), 493-509.
 19. Kumar, N. & Kumar, S. 2018: Evidence of multifaceted SKS/SKKS splitting directions in the Sikkim Himalaya, India. *Journal of Geodynamics*, 117, 12-20.
 20. Kumar, N. & Yadav, D.N. 2019. Coda Q estimation for Kinnaur region and surrounding part of NW Himalaya. *Journal of Seismology*, 23(2), 271-285.
 21. Kumar, S., Singh, P., Singh, P. & Shekhar, Chandra 2018: Estimation of scattering and intrinsic attenuation based on multiple lapse time window analysis in Sikkim Himalayan region, India. *Physics of the Earth and Planetary Interiors*, 284, 1-9.
 22. Kumar, V., Gupta, V. & Jamir, I. 2018: Hazard Evaluation of Progressive Pawari Landslide Zone, Satluj Valley, Higher Himalaya, India. *Natural Hazards*, 93(2), 1029-1047.
 23. Kumar, V., Gupta, V. Jamir, I. & Chattoraj, S.L. 2019: Evaluation of Potential Landslide Damming; Case study of Urni landslide, Kinnaur, Satluj valley, India. *Geoscience Frontiers*, 10(2), 753-767.
 24. Lal, S., Joshi, A., Sandeep, Tomer, M., Kumar, P., Kuo, Chun-Hsiang, Lin, Che-Min, Wen, Kuo-Liang & Sharma, M.L. 2018: Modeling of the strong ground motion of 25th April 2015 Nepal earthquake using modified semi-empirical technique. *Acta Geophysica*, 66(4), 461-477.
 25. Lokho, K., Singh, B.P., Whiso, K. & Chonchibeni Ezung, O. 2018: Ichnology of the Laisong Formation (late Eocene-early Oligocene) of the Naga Hills, Indo-Burma range (IBR): Paleoenvironmental significance. *Journal of Asian Earth Sciences*, 162, 13-24.
 26. Longkumer, L., Luirei, K., Moiya, J.N. & Thong, G.T. 2019: Neotectonic activity in parts of the Schuppen Belt of Mokochung District, Nagaland: Evidences from morphotectonic features. *Journal of Asian Earth Sciences*, 170, 138-154.
 27. Luirei, K., Bhakuni, S.S. & Kothyari, G.C. 2018: Geomorphologic study of the valley floor in different tectonic segments along Kosi River valley between South Almora Thrust and Himalayan Frontal Thrust: Kumaun Himalaya, India. *Geological Journal*, 53(4), 1500-1515.
 28. Luirei, K., Lokho, K. & Kothyari, G.C. 2018: Neotectonic activity along the Churachandpur-Mao Fault in and around Karong, Manipur, India: based on morphotectonics and morphometric analyses. *Arabian Journal of Geosciences*, 11(571), 1-16.
 29. Mishra, P.K., Prasad, S., Jehangir, A., Ambili, A., Yousuf, A.R. & Gaye, B. 2018: Investigating the role of meltwater versus precipitation seasonality in abrupt lake-level rise in the high-altitude Tso Moriri Lake (India). *Palaeogeography, Palaeoclimatology, Palaeoecology*, 493, 20-29.
 30. Mishra, P.K., Prasad, S., Marwan, N., Ambili, A., Krishnan, R., Gaye, B., Basavaiah, N., Stebich, M., Menzel, P. & Riedel, N. 2018: Contrasting pattern of hydrological changes during the past two millennia from central and northern India: regionality of climate change or anthropogenic signal. *Global and Planetary Change*, 161, 97-107.
 31. Mukherjee, P.K., Souders, A.K. & Sylvester P.J. 2019: Accuracy and precision of U-Pb zircon geochronology at high spatial resolution (7–20 μm spots) by laser ablation-ICP-single-collector-sector-field-mass spectrometry. *J. Analytical Atomic Spectrometry*, 34, 180-194.
 32. Nanda, A.C., Sehgal, R.K. & Chauhan, P.R. 2018: Siwalik-age faunas from the Himalayan Foreland Basin of South Asia. *Journal Asian Earth Sciences*, 162, 54-68.
 33. Pandey, A., Singh, I., Mishra, R.L., Rao, P.S., Srivastava, H.B. & Jayangondaperumal, R. 2018: Active tectonics in the Assam Seismic Gap between the meizoseismal zone of A.D. 1934 and 1950 earthquakes along eastern Himalayan front, India. *J. Earth System Science*, 127, 66, 1-17.
 34. Parijia, M.P., Kumar, S., Tiwari, V.M., Rao, N.P., Kumar, N., Biswal, S. & Singh, I. 2018: Microseismicity, tectonics and seismic potential in the Western Himalayan segment, NW Himalaya, India. *Journal of Asian Earth Sciences*, 159, 1-16.
 35. Paul, A. & Joshi, V. 2019: Assessment of seismic hazard in Kumaun-Garhwal region. *Himalayan Geology*, 40(1), 78-82.

36. Phukon, P., Sen, K., Srivastava, H.B., Singhal, S. & Sen, A. 2018: U-Pb geochronology and geochemistry from the Kumaun Himalaya, NW India, reveal Paleoproterozoic arc magmatism related to formation of the Columbia supercontinent. *Geological Society of America Bulletin*, 130(7/8), 1164-1176.
37. Quasim, M.A., Ahmad, A.H.M., Sachan, H.K. & Ghosh, S.K. 2019: Recrystallization and Provenance History of the Upper Kaimur Group Siliciclastics, Son Valley, India: Coupled Petrographic and Fluid inclusion Proxy. *Journal of the Geological Society of India*, 93, 177-184.
38. Raja, P., Singh, N., Srinivas, C.V., Singhal, M., Chauhan, P., Singh, M. & Sinha, N.K. 2018: Analyzing energy-water exchange dynamics in the Thar desert. *Climate Dynamics*, 50(9), 3281-3300.
39. Rose, K.D., Dunn, R., Kumar, K., Perry, P., Rana, R.S. & Smith, T. 2018: New Fossils from Tadkeshwar Mine (Gujarat, India) increase Primate Diversity from the early Eocene Cambay Shale. *Journal of Human Evolution*, 122(2018), 93-107.
40. Samanta, S., Dalai, T.K., Tiwari, S.K. & Rai, S.K. 2018: Quantification of source contributions to the water budgets of the Ganga (Hooghly) River estuary India. *Marine Chemistry*, 207, 42-54.
41. Sen, K., Adlakha, V., Singhal, S. & Chaudhury, R. 2018: Migmatization and intrusion of "S. type" granites in the trans Himalayan Ladakh Magmatic Arc of north India and their bearing on Indo Eurasian collisional tectonics. *Geological Journal*, 53(4), 1543-1556.
42. Sen, A., Sen, K., Srivastava, H.B., Singhal, S. & Phukon, P. 2018: Age and geochemistry of the Paleoproterozoic Bhatwari Gneiss of Garhwal Lesser Himalaya, NW India: implications for the pre-Himalayan magmatic history of the Lesser Himalayan basement rocks. *Geological Society, London, Special Publications*, 481, SP481-6.
43. Shukla, T., Kumar, V. & Mehta, M. 2019: Response of the Himalayan glacial cycles to multiple equilibrium of climate system: A review. *Quaternary International*, 507, 4-14.
44. Singh, K.A., Singh, Y.R., Devi, S.R., Singh, B.P. & Srivastava, V.K. 2019: Depositional environments of the Surma Group of Tamenglong area, North-western Manipur, Indo-Myanmar Ranges: Mineralogical and palynological constraints. *Himalayan Geology*, 40(1), 83-91.
45. Singh, P., Kumar, S. & Singh, P. 2018: Attenuation of short-period body waves in Northwestern Himalayan Region, India. *Soil Dynamics and Eq. Eng.*, 114, 555-562.
46. Singh, R., Paul, A., Kumar, A., Kumar, P. & Sundriyal, Y.P. 2018: Estimation and applicability of attenuation characteristics for source parameters and scaling relations in the Garhwal Kumaun Himalaya region. *Journal of Asian Earth Sciences*, 159, 42-59.
47. Singhal, S., Mukherjee, P.K., Saini, N.K., Dutt, S. & Kumar, R. 2019: Effect of carbon on major element analysis of carbonaceous silicate rocks by WD-XRF: An evaluation of error and its correction. *Geochemistry: Exploration, Environment, Analysis*, 19(1), 31-38.
48. Sundriyal, S., Shukla, T., Tripathee, L., Dobhal, D.P., Tiwari, S.K. & Bhan, U. 2018: Deposition of atmospheric pollutant and their chemical characterization in snow pit profile at Dokriani Glacier, Central Himalaya. *Journal of Mountain Science*, 15(10), 2236-2246.
49. Thakur, S.S., Madhavan, K., Patel, S.C., Rao, D.R., Singh, A.K., Pandey, S. & Nandini, P. 2018: Yttrium-zoning in garnet and stability of allanite in metapelites from the Main Central Thrust Zone and adjacent higher Himalayan crystallines along the Alaknanda Valley, NW Himalaya. *Lithos*, 320-321, 1-19.
50. Thakur, S.S., Singh, A.K., Rameshwar Rao, D., Sharma, R., Pandey, S. & Ao, A. 2018: Garnetiferous metamorphic rocks in Jaspal granite, Himachal Pradesh, India: implication of Tethys Himalayan metamorphism and tectonics. *Current Science*, 115(8), 1576-1583.
51. Thakur, D., Bartarya, S.K. & Nainwal, H.C. 2018: Groundwater quality assessment of the Soan Basin in Outer Himalaya, Himachal Pradesh, India. *Himalayan Geology*, 39(2), 197-211.
52. Thakur, D., Bartarya, S.K. & Nainwal, H.C. 2018: Mapping groundwater prospect zones in an intermontane basin of the Outer of the Outer Himalaya in India using GIS and remote sensing techniques. *Environmental Earth Sciences*, 77(10), 368.
53. Thakur, D., Bartarya, S.K. & Nainwal, H.C. 2018: Tracing ionic sources and geochemical evolution of groundwater in the Intermountain Una basin in outer NW Himalaya, Himachal Pradesh, India. *Environmental Earth Sciences*, 77(20), 720.

54. Thakur, V.C., Jayangondaperumal, R. & Joevivek, V. 2018: Seismotectonics of Central and NW Himalaya: plate boundary – wedge thrust earthquakes in thin - and thick - skinned tectonic framework, Geological Society of London, Special Publications, 481, 23.
55. Verma, A., Kumar, A., Gupta, A.K., Tiwari, S.K., Bhambri, R. & Naithani, S. 2018: Hydroclimatic significance of stable isotopes in precipitation from glaciers of Garhwal Himalaya, Upper Ganga Basin (UGB), India. *Hydrological Processes*, 32(12), 1874-1893.
56. Yadav, R.K., Gahalaut, V.K., Bansal, A.K., Sati, S.P., Joshi, C., Gautam, P.K.R., Kumar, K. & Rana N. 2019: Strong seismic coupling underneath Garhwal–Kumaun region, NW Himalaya, India. *Earth and Planetary Science Letters*, 506, 8–14.
57. Yu, Z., Colin, C., Wan, S., Saraswat, R., Song, L., Xu, Z., Clift, P., Lu, H., Lyle, M., Kulhanek, D., Hahn, A., Tiwari, M., Mishra, R., Miska, S. & Kumar, A. 2019: Sea level-controlled sediment transport to the eastern Arabian Sea over the past 600 kyr: Clay minerals and Sr-Nd isotopic evidence from IODP site U1457. *Quaternary Science Reviews*, 205, 22-34.
- Papers: in Press/Accepted/Under revision/Under review/Communicated**
- Ahluwalia, R.S., Rai, S.P., Meetei, P.N., Jain, S.K., Karakotia, I., Singh, N. & Chauhan, P. 2019: Diurnal and Spatial Contribution of snow/glacier melt runoff in high altitude river valley: Central Himalaya. *Hydrological Sciences Journal* (Under review).
 - Ahluwalia, R.S., Rai, S.P., Jain, S.K., Dobhal, D.P. & Meetei, P.N. 2019: Runoff behaviour of snow and glacier fed rivers of western Himalaya. *Jour of Water Research Resources* (Under review).
 - Aitchison, J., Ao, A., Bhowmik, S., Geoffrey, L. Clarke, G.L., Ireland, T., Kachovich, S., Lokho, K., Stojanovic, D., Roeder, T., Truscott, N., Zhen, Y. & Zhou, R. 2019: Tectonic evolution of the western margin of the Burma microplate based on new fossil and radiometric age constraints. *Tectonics* (In press).
 - Bhambri, R., Chand, P., Kawishwar, P., Kumar, A., Gupta, A.K., Verma, A. & Tiwari, S.K. 2019: Revisit of the Karakoram term and its extent through historical archives. *Journal of Mountain Science* (Accepted).
 - Bikramaditya, R.K., Singh, A.K., Chung, S.L., Sharma, R. & Lee, H.Y. 2019: Zircon U-Pb ages and Lu–Hf isotopes of metagranitoids from the Subansiri region, Eastern Himalaya: implications for crustal evolution along the northern Indian passive margin in the early Paleozoic. *Geol. Soc. London, Sp. Pub.* (In press)
 - Chahal, P., Kumar, A., Sharma, P.C., Sundriyal, Y.P. & Srivastava, P. 2019: Catastrophic outburst floods in the upper Zaskar catchment, NW Himalaya *Journal of Paleontological Society of India* (Accepted).
 - Chahal, P., Kumar, A., Sharma, P.C., Singhal, S., Sundriyal, Y.P. & Srivastava, P. 2019: Late Pleistocene history of aggradation and incision, provenance and channel connectivity of the Zaskar River, NW Himalaya. *Global and Planetary Changes* (Communicated).
 - Das, S., Rai, S.K., Thakur, D., Ahluwalia, R.S. & Sarangi, S. 2019: Major ions and stable isotopes (δD and $\delta^{18}O$) in the headwaters of the Teesta River system, Sikkim Himalaya India, *Chemical weathering and sources of moisture in the basin. Journal of Hydrology* (Under review).
 - Diwate, P., Meena, N.K., Bhushan, R., Pandita, S., Chandana, K.R. & Kumar, P. 2019: Sedimentation rate (^{210}Pb and ^{137}Cs), grain size, organic matter and bathymetric studies in Renuka Lake, Himachal Pradesh, India. *Himalayan Geology* (Under review).
 - Garg, P.K., Shukla, A. & Jasrotia, A.S. 2019: Dynamics of the four major central Himalayan glaciers: spatio-temporal trends, influencing factors and glacier health. *Himalayan Geology*. (Accepted).
 - Garg, S., Shukla, A., Mehta, M., Kumar, V. & Shukla, U.K. 2019: Ongoing geomorphic manifestations and glaciation history of the Kangriz glacier, western Himalaya. *Himalayan Geology* (Accepted).
 - Gaury, P.K., Meena, N.K. & Mahajan, A.K. 2019: Hydrochemistry and water quality of Rewalsar Lake of Lesser Himalaya, Himachal Pradesh, India. *Environmental Monitoring and Assessment* (In press).
 - Gautam, P.K.R., Rajesh, S., Pappachen, J.P., Kumar, N., Biswas, A., Philip, G., Dabral, C.P. & Pal, S.K. 2019: GPS measured static and kinematic

- offsets at near and the far field of the 2011 Mw9.0 Tohoku-Oki earthquake. *Journal Geodesy and Geodynamics* (In press).
14. Ghosh, R., Srivastava, P., Shukla, U.K., Sehgal, R.K. & Singh, I.B. 2019: 100 kyr sedimentary record of Marginal Gangetic Plain: Implications for forebulge tectonics. *Palaeogeography, Palaeoclimatology, Palaeoecology* (In press).
 15. Gilbert, C.C., Sehgal, R.K., Pugh, K.D., Campisano, C.J., May, E., Patel, B.A. & Patnaik, R. 2019: New *Sivapithecus* specimen from Ramnagar (J&K), India and a taxonomic revision of Ramnagar hominoids. *Journal of Human Evolution*. (Under revision).
 16. Gupta, A.K., Prakasham, M., Dutt, S., Clift, P.D. & Yadav, R.R. 2019: Evolution and development of the Indian Monsoon Geodynamics of the Indian Plate: Evolutionary Perspectives eds. S. K. Tondon and Neal Gupta). Springer accepted (In press).
 17. Jamir, I., Gupta, V., Thong, G.T. & Kumar, V. 2019: Litho-tectonic and precipitation implications on landslides, Yamuna valley, NW Himalaya. *Physical Geography* (Accepted).
 18. Joshi, M., Thakur, V.C. & Suresh, N. 2019: Paleoclimate imprints on the late Quaternary Ravi river valley terraces, Chamba region, NW Himalaya. *Quaternary Science Review*. (Communicated).
 19. Kannaujiya, S., Philip, G., Champati-Ray, P.K. & Pal, S.K. 2019: Integrated Geophysical Techniques for Subsurface Imaging of Active Deformation across the Himalayan Frontal Thrust in the Northwestern Frontal Himalaya, India. *Journal of Engineering Geology* (Communicated)
 20. Kar, A. & Kumar, A. 2019: Evolution of arid landscape in India and likely impact of future climate change. *Episodes* (Accepted).
 21. Karakoti, I., Shukla, T. & Dobhal, D.P. 2019: Ground monitoring and characteristics of Black Carbon Aerosol over the glacier of central Himalaya: A case study of Dokraini Glacier. *Journal of Atmospheric Research* (Communicated).
 22. Karakoti, I., Kesarwani, K., Mehta, M. & Dobhal D.P. 2019: Surface ablation modelling (spatiotemporal scale) of the debris-covered Dokraini Glacier (Central Himalaya, India) using interpolated hypsometric meteorological variables. *Regional Environmental Change* (Communicated).
 23. Khan, Z., Sachan, H.K., Ahmad, A.H.M. & Ghaznavi, A.A. 2019: Microfacies, diagenesis, and stable isotope analysis of the Jurassic Jumara Dome carbonates, Kachchh, Western India: Implications for depositional environments and reservoir quality. *Geological Journal* (In press).
 24. Kharya, A., Sachan, H.K., Santosh, M., Singh, S.K. & Tiwari, S.K. 2019: Isotopic fingerprinting of fluid circulation at the terminal stage of Himalayan orogeny: An example from Himalayan forearc basin, Indus Tsangpo Suture Zone, Ladakh India. *Journal of Earth System Sciences* (Communicated).
 25. Kumar, A., Bhambri, R., Tiwari, S.K., Verma, A., Gupta, A.K. & Kawishwar, P. 2019: Evolution of debris flow and moraine failure in the Gangotri Glacier region, Garhwal Himalaya: Hydrogeomorphological aspects. *Geomorphology* (In press).
 26. Kumar, A., Ray, Y., Ghosh, R., Bandyopadhyay, S., Singh, V. & Srivastava, P. 2019: Late Quaternary sedimentation history of the Himalaya and its foreland. *Episodes*. (Communicated).
 27. Kumar, A., Dutt, S., Saraswat, S. Gupta, Anil K., Clift, Peter D., Pandey, D.K., Yu, Zhaojie & Kulhanek, D.K. 2019: A Late Pleistocene Sedimentation in the Indus Fan, Arabian Sea, IODP Site U1457 *Geological Magazine* (In press).
 28. Kumar, N., Aoudia, A., Guidarelli, M., Babu, G.B., Hazarika, D. & Yadav, D.K. 2019: Delineation of lithosphere structure and characterization of the Moho geometry under the Himalaya-Karakoram-Tibet collision zone using surface-wave tomography. *GSL Special Publication* (In press).
 29. Kumar N., Kumar, N. & Singh, A.K. 2019: Petrology and Geochemistry of acid volcano-plutonic rocks from Riwasa and Nigana areas of Neoproterozoic Malani Igneous Suite, Northwestern peninsular India: An understanding approach to magmatic evolution. *Geochemistry International* (In press).
 30. Kumar, P., Mahajan, A.K. & Meena, N.K. 2019: Evaluation of trophic status and its limiting factors in the Renuka Lake of Lesser Himalaya, India. *Environ Environmental Monitoring and Assessment* (In press).

31. Kumar, P., Devi, S., Monika, Srivastava, A., Sandeep, Joshi, A. & Kumari, R. 2019: Site response study based on H/V method using S-wave: A case study in the Kumaon Himalaya, India, *Himalayan Geology* (In press).
32. Kumar, P., Meena, N., Diwate, P., Mahajan, A.K. & Bhushan, R. 2019: The heavy metal contamination history during ca 1839-2003 AD from Renuka Lake of Lesser Himalaya, Himachal Pradesh, India. *Journal of Environmental Earth science* (Communicated).
33. Lokho, K., Aitchison, J., Whiso, K., Lhoupenyi, D., Zhou, R. & Raju, D.S.N. 2019: Eocene foraminifera from the Upper Disang Formation, Naga Hills of Manipur, Indo-Burma Range (IBR). *Marine Micropaleontology* (Communicated).
34. Lokho, K., Singh, B.P. & Bhandari, A. 2019: A synoptic review of Eocene-Miocene faunal records of the Indo-Burma Range (IBR), NE India and coeval northwestern Himalaya: paleoenvironmental and tectonic inferences. *Journal of the Paleontological Society of India* (In press).
35. Luirei, K., Bhakuni, S.S. & Limasanen, L. 2019: Tectonic activity in the Himalayan Frontal Thrust zone of Ramnagar area as evident from various tectonic attributes. *Journal of Earth System Science* (Communicated).
36. Manas, M. & Mukherjee, B.K. 2019: Volcanogenic microfossils imprint in suture zone rock: a study from western Ladakh, Himalaya, India. *Geological Magazine* (Under review).
37. Mahima, Karakoti, I., Hemwati, Nandan H. & Pathak P.P. 2018: An Analytical study of global radiation and meteorological parameters for India. *International Journal of Ambient Energy*, doi.org/10.1080/01430750.2018.1507929 (Accepted).
38. Mahima, Karakoti, I., Hemwati, Nandan H. & Pathak P.P. 2018: A comprehensive study of ground measurement and satellite derived data of global and diffuse radiation. *Environmental Progress and Sustainable Energy* (In press).
39. Mal, S., Mehta, M., Singh, R.B., Schickhoff, U. & Bisht, M.P.S. 2019: Recession and morphological changes of the debris-covered Milam Glacier in Gori Ganga valley, Central Himalaya, India, derived from satellite data *Frontiers in Environmental Sciences* (Communicated).
40. Mamtani, M.A., Bhatt, S., Rana, V., Sen, K. & Mandal, T.K. 2019: Application of AMS in understanding regional deformation fabric development and granite emplacement: examples from Indian cratons. *Geological Society, London, Special Publications* (In press).
41. Misra, A., Kumar, A., Bhambri, R., Haritashya, U.K., Verma, A., Gupta, A.K., Dobhal, D.P., Gupta, G. & Upadhyay, R. 2019: Topographic and climatic influence on seasonal snow cover over Chorabari Glacier, Garhwal Himalaya, India. *Geomorphology* (Communicated).
42. Mohan, K., Thena, T., Saravanan, K. & Prakasam M. 2019: Benthic foraminifera and carbonate responses from methane rich Cascadia Margin, NE Pacific Ocean. *Arabian Journal of Geosciences* (Under review).
43. Moiya, N., Luirei, K., Longkumer, L., Kothiyari, G.C. & Thong, G.T. 2019: Late-Quaternary deformation in parts of the schuppen belt of Dimapur and Peren districts, Nagaland, India. *Geological Journal* (In press).
44. Mukherjee, P.K., Jain, A.K., Singhal, S., Singha, N.B., Kumud, K. & Seth, P. 2019: Discriminating the Lesser and Higher Himalayan terranes across the Main Central Thrust Zone (MCTZ), Uttarakhand Himalaya, using U-Pb zircon ages, and Sm-Nd isotopes. *Gondwana Research* (In press).
45. Neelavannan, K., Hussain, S.M., Nishath, N.M., Veerasingam, S., Prakasam, M., Kumar, P., Chopra, S., Singh, P., Tyagi, A., Kurian P.J. & Vidyasakar, A. 2019: Paleoproductivity variation of the Southeastern Arabian Sea during the past 130Ky. *Geo-Marine Letters* (Communicated).
46. Negi, P.S., Pandey, C.P. & Singh, N. 2019: Prevalence of black carbon aerosol in the ambient air of Gangotri Glacier Valley, Northwestern Indian Himalaya. *Science Total Environment* (Communicated).
47. Kumar, P., Monika, Sandeep, Kumar, S., Kumari, R., Kumar, D. & Kumar, N. 2019: Characterization of shear wave attenuation and site effects in the Garhwal Himalaya, India from inversion of strong motion records. *Pure and Applied Geophysics* (Communicated).
48. Parija, P.M., Kumar, S., Tiwari, V.M., Rao, P., Kumar, N., Biswal, N. & Singh, S.I. 2019:

- Microseismicity, tectonics and seismic potential in the Western Himalayan segment, NW Himalaya, India, *Journal of Asian Earth Sciences* (In press).
49. Paul, A., Hazarika, D., Kumar, N. & Wadhawan, M. 2019: Upper mantle anisotropy in the northwest Himalaya and Ladakh-Karakoram zone based on SKS splitting analysis. *Physics of the Earth and Planetary Interiors* (Under review).
 50. Phukon, P., Sen, K., Singh, P.C., Sen, A., Srivastava, H.B. & Singhal, S. 2019: Characterizing anatexis in the Greater Himalayan Sequence (Kumaun, NW India) in terms of pressure, temperature, time and deformation. *Lithos* (Accepted).
 51. Rawat, G., Philip, G., Suresh, N., Medha & Rekha 2019: Electrical Resistivity Tomography along the Himalayan Frontal Thrust in the northwestern Frontal Himalaya for Active Tectonics Studies. *Modelling of Earth System and Environment* (Accepted).
 52. Rawat, G., Dhamodharan, S. & Sachin 2019: Sedimentary Thickness of Himalayan foreland basin. *Jour. Asian Earth Sci.* (Communicated).
 53. Rose, K.D., Holbrook, L.T., Kumar, K., Rana, R.S., Ahrens, H.E., Dunn, R.H., Folie, A., Jones, K.E. & Smith, T. 2019: Anatomy, relationships and paleobiology of *Cambaytherium* (Mammalia, Perissodactylamorpha, Anthracobunia) from the early Eocene of western India. *Memoire of Vertebrate Palaeontology* (Monograph Communicated).
 54. Saha, T. & Mukherjee, B.K. 2019: Brittle fracturing induced by retrogressed metamorphism from Tso Morari region, ISZ, Himalaya *International Journal of Earth Sciences* (Under review)
 55. Saravanan, P., Gupta, A.K., Panigrahi, M.K., Tiwari, S.K., Rai, S.K. & Prakasam, M. 2019: Response of shallow-sea benthic foraminifera to environmental changes off the coast of Goa, eastern Arabian Sea during the last ~6,100 cal yr BP. *Geological Magazine* (Under review).
 56. Saravanan, P., Gupta, A.K., Hongbo, Z., Panigrahi, M.K. & Prakasam, M. 2019: Late Holocene long arid phase in the Indian subcontinent as seen in shallow sediments of the eastern Arabian Sea *Journal of Asian Earth Sciences* (Under review).
 57. Sen, K. (Jr), Manas, M., Mukherjee, S. & Mukherjee, B.K. 2019: Two stage. Two-stage exhumation of Zildat Ophiolitic Melange rocks, NW Himalaya, India. *Himalayan Geology* (Accepted).
 58. Shukla, A., Garg, S., Mehta, M., Kumar, V. & Shukla, U.K. 2019: Sensitivity of glaciers in part of the Suru basin, western Himalaya to ongoing climatic perturbations. In: Dimri, A.P. (eds.) *Himalayan Weather and Climate and its Impact on the Environment* (Communicated).
 59. Shukla, A., Rana, R., Sharma, S. & Bisht, P. 2019: Glacial response to climate variability since MIS-2 in the Southern Ladakh Range, NW Himalaya, India. *Palaeogeography, Palaeoclimatolog, Palaeoecology* (Communicated).
 60. Shukla, A., Garg, P.K. & Srivastava, S. 2018: Evolution of glacial lakes in the Sikkim, Eastern Himalaya over the past four decades (1975-2017) *Frontiers in Environmental Sciences* (In press).
 61. Shukla, T., Mehta, M., Dobhal, D.P., Bohra, A., Bhanu, P., Gupta, A.K. & Kumar, A. 2019: Landscape control on lake formation and late Holocene sediments deposition at a periglacial lake setting in the Mandakini River Basin, Central Himalayas, India. *Progress in Physical Geography* (Communicated).
 62. Shukla, T., Sundriyal, S., Stachnik, L. & Mehta, M. 2019: Carbonate and silicate weathering in glacial environments and its relation to atmospheric CO₂ cycling in the Himalaya *Annals of Glaciology* (In press).
 63. Singh, A.K., Chung, S.L., Bikramaditya, R.K., Lee, H.Y. & Khogenkumar, S. 2019: Zircon U-Pb geochronology, Hf isotopic compositions and Petrogenetic study of Abor volcanic rocks of Eastern Himalayan Syntaxis, Northeast India: implications for eruption during breakup of Eastern. *Gondwana Geological Journal* (In press).
 64. Singh, J., Singh, N., Chauhan, P., Yadav, R.R., Achim, Bräuning, Mayr, Ch. & Tanupriya, R. 2019. Tree-ring $\delta^{18}O$ records of abating June-July monsoon rainfall over the Himalayan region in the last 273 years. *Quaternary International* (Communicated).
 65. Singh, J., Yadav, R.R., Negi, P.S. & Rastogi, T. 2019 Sub-alpine trees testify late 20th century rapid retreat of Gangotri glacier, Central

- Himalaya. Quaternary International (Under review).
66. Singh, N., Singh, J., Gupta, A.K., Bräuning, A., Mayr, C., Tiwari, R.K., Dimri, A.P., Ramanathan, A.L., Kumar, P., Peylin, P., Chauhan, P., Sharma, V., Chakraborty, J.S., Singhal, M., Shukla, T., Rawat, S., Agarwal, S., Yadav R.R. & Raja, P. 2019: Accelerating water cycle and cloudbursts in the central Himalaya. *Nature Climate Change* (Communicated).
 67. Singh, N. & Parida, B.R. 2019: Environmental factors associated with seasonal variations of night-time plant canopy and soil respiration fluxes in deciduous conifer forest, western Himalaya, India. *Trees*, 33(2) (In press).
 68. Singh, N., Parida, B.R., Charakborty, J.S. & Patel, N.R. 2019: Net ecosystem productivity in deciduous pine forest of lower western Himalaya, India. *Forest Ecosystems* (Communicated).
 69. Singh, N., Singhal, M., Chhikara, S., Karakoti, I., Chauhan, P. & Dobhal, D.P. 2018: Radiation and energy balance dynamics over a rapidly receding glacier in the central Himalaya. *International Journal of Climatology* (Accepted).
 70. Solé, F., De Bast, E., Legend, H., Rana, R.S., Kumar, K., Rose, K.D. & Smith, T. 2019: New specimens of *Frugivastodon* (mammalia: Apatotheria) from the early Eocene of India confirm its Apatemyid status and elucidate dispersal of Apatemyidae (Accepted).
 71. Srivastava, P., Kumar, A., Singh, R., Oshin, D., Kumar, A.M., Ray, Y., Jayangondaperumal, R., Phartiyal, B., Chahal, P., Sharma, P., Ghosh, R., Kumar, N. & Agnihotri, R. 2019: Rapid lake level fall in Pangong Tso (lake) in Ladakh, NW Himalaya: a response of late Holocene aridity. *Current Science* (Communicated).
 72. Sundriyal, S., Kumar, S., Dobhal, D.P. & Bhan, U. 2019: Variability in the major ions chemistry of melt water draining from Dokriani Glacier, Central Himalaya, India. *Journal of the Geological Society of India* (Communicated).
 73. Suresh, N. & Kumar, R. 2019: Emergent anticlines along the Himalayan Mountain Front in the Kangra re-entrant – A study of tectonics and climate induced reorganization of the Beas-Satluj river system. *Journal of Asian Earth Sciences* (Communicated).
 74. Suresh, N. & Kumar, R. 2019: Response of diverse tectonics in the evolution of late Quaternary alluvial fans under similar climatic regime - Soan Dun, Sub-Himalaya, India. *Sedimentology* (Under revision).
 75. Thakur, V.C., Joshi, M. & Suresh, N. 2019: Formation of late Quaternary Kangra basin, deglaciation in Dhauladhar range, and reactivation of Jawalamukhi Thrust in Northwest Himalaya: Climate - tectonic linkage. *Episodes* (Communicated).
 76. Thena, T., Mohan, K., Prakasam, M., Saravanan, K. & Vijaya Lakshmi, C.S. 2019: Paleocological significances of deep-sea benthic foraminifera from methane rich sediments of Cascadia Margin, North East Pacific Ocean Palaeobiodiversity and Palaeoenvironments (Under review).
 77. Thena, T., Mohan, K., Prakasam, M., Saravanan, K. Vijaya&Lakshmi, C.S. 2019: Northern Pacific intermediate and deep water changes over the last 50,000 years. *Geo-marine Letters* (Under review).
 78. Yadav, J.S., Pratap, B., Gupta, A.K., Dobhal, D.P., Yadav, R.B.S. & Tiwari, Sameer. K. 2019: Spatio-temporal variability of near-surface air temperature in the Dokriani glacier catchment (DGC), central Himalaya. *Theoretical and Applied Climatology* (In press).
 79. Yadav, R.R. & Singh, J. 2019: Tree-ring-width chronologies from moisture stressed sites fail to capture volcanic eruption associated extreme low temperature events. *Current Science* (Communicated).
 80. Yadav, R.R., Negi, P.S. & Singh, J. 2019: Communicated as an invited paper for book being released by INSA. 2018 *Climate Change and Plant Biodiversity in Himalaya, India*. Book being published by INSA (Communicated).
 81. Yousuf, B., Shukla, A., Arora, M.K. & Jasrotia A.S. 2019: Glacier facies characterization using optical satellite data: Impacts of radiometric resolution, seasonality, and surface morphology. *Progress in Physical Geography* (In press).
 82. Zack, S., Rose, K.D., Holbrook, L.T., Kumar, K., Rana, R.S. & Smith, T. 2019: An enigmatic new family of ungulate-like mammals from the early Eocene of India. *Palaeontology* (Accepted).