

• **Published in peer-reviewed journals:**

1. Chakraborty, P., Singh, S., Hazra, B., **Majumdar, A. S.**, Kumari, J., 2024. Spatial distribution, source apportionment, and health risks assessment of trace elements in pre- and post-monsoon soils in the coal-mining region of North Karanpura basin, India. **Science of The Total Environment**, 177173. DOI: <https://doi.org/10.1016/j.scitotenv.2024.177173>
2. **Majumdar, A. S.**, Ray, D., Shukla, A. D., 2020. Serpentinization of olivine-gabbro in Central Indian ridge: Insights into H₂ production during alteration in lower oceanic crust and sustenance of life at slow-spreading ridges. **Lithos**, 105730. DOI: <https://doi.org/10.1016/j.lithos.2020.105730>.
3. Chakraborty, S., **Majumdar, A. S.**, Shukla, A. D., 2020. Role of fluid in strain softening within the Main Central Thrust in Sikkim: The origin of quartz-rich mylonites. **Journal of Structural Geology**, 104145. DOI: <https://doi.org/10.1016/j.jsg.2020.104145>.
4. Scicchitano, M. R., Rubatto, D., Hermann, J., **Majumdar, A.S.**, Putnis, A., 2018. Oxygen isotope analysis of olivine by ion microprobe: Matrix effects and applications to a serpentinised dunite. **Chemical Geology**, 499, 126-137.
5. Bhushan, R., Sati, S. P., Rana, N., Shukla, A. D., **Majumdar, A. S.**, Juyal, N., 2018. High-Resolution millennial and centennial scale Holocene monsoon variability in the Higher Central Himalayas. **Palaeogeography, Palaeoclimatology, Palaeoecology**, 489, 95-104.
6. **Majumdar, A.S.**, Hövelmann, J., Mondal, S.K., Putnis, A., 2016. The role of reacting solution and temperature on compositional evolution during harzburgite alteration: Constraints from the Mesoarchean Nuasahi Massif, eastern India. **Lithos**, 256-257, 228-242.
7. **Majumdar, A.S.**, Hövelmann, J., Vollmer, C., Berndt, J., Mondal, S.K., Putnis, A., 2016. Formation of Mg-rich olivine pseudomorphs in serpentinized dunite from the Mesoarchean Nuasahi Massif, eastern India: Insights into the evolution in fluid composition at the mineral-fluid interface. **Journal of Petrology**, 57 (1), 3-26.
8. **Majumdar, A.S.**, Mathew, G., 2015. Raman-Infrared (IR) spectroscopy study of natural cordierites from Kalahandi, Odisha. **Journal of the Geological Society of India**, 86, 80-92.
9. **Majumdar, A.S.**, King, H.E., John, T., Kusebauch, C., Putnis, A., 2014. Pseudomorphic replacement of diopside during interaction with (Ni,Mg)Cl₂ aqueous solutions: Implications for the Ni-enrichment mechanism in talc- and serpentine-type phases. **Chemical Geology**, 380, 27-40.
10. **Majumdar, A.S.**, Mathew, G., 2012. Distinct ruby suite at Sardapur, Orissa: A spectroscopic investigation. **Journal of the Geological Society of India**, 80, 715-722.

• **Thesis:**

Majumdar, A.S., 2015. The role of fluid infiltration and temperature on compositional evolution during peridotite alteration: Application to the Nuasahi Massif, India. Ph. D. Thesis, Institut für Mineralogie, WWU Münster, Germany.

• **Conference abstracts:**

1. Chakraborty, S., **Majumdar, A. S.**, and Mukul, M., 2017. Fluid-assisted ductile deformation in the Main Central Thrust, Sikkim Himalaya, India. **AGU FALL Meeting**, 12-16th Dec 2016.
2. **Majumdar, A.S.**, Salvi, D., Borgohain, B., and Mathew, G., 2015. Antigorite polysomatism during prograde metamorphism of Trans-Himalayan Tidding peridotite, eastern Arunachal Pradesh, India. **HKT2015 Conference**, 6-8th Sept 2015.
3. **Majumdar, A.S.**, King, H.E., John, T., Kusebauch, C., and Putnis, A., 2013. Pseudomorphic replacement of diopside during interaction with (Ni,Mg)Cl₂ aqueous solutions. **Goldschmidt2013 Conference Abstracts**, Min. Mag. 77(5), 1674.
4. **Majumdar, A.S.**, King, H.E., Kusebauch, C., and Putnis, A., 2012. Pseudomorphic replacement of diopside during interaction with (Ni,Mg)Cl₂ aqueous solutions. **European Mineralogical Conference**, 2-6 Sept 2012, Frankfurt, Germany.