

• **Journal publications:**

1. Sahoo, S., **Majumdar, A. S.***, Anand, R., Ray, D., Fuenlabrada, J. M., **2025**. Petrogenesis of Mafic–Ultramafic Cumulates in the Mayudia Ophiolite Complex, NE Himalaya: Evidence of an Island Arc Root in Eastern Neo-Tethys. **Minerals**, 15 (6), 572. (IF: 2.2)
2. 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**, 955, 177173. (IF: 8.0)
3. **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**, 374-375, 105730. (2.5)
4. 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**, 140, 104145. (IF: 2.9)
5. 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. (IF: 3.6)
6. 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. (IF: 2.7)
7. **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. (IF: 2.5)
8. **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. (IF: 3.5)
9. **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. (IF: 1.5)
10. **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. (3.6)
11. **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. (IF: 1.5)

Conference abstracts:

1. Bose, A., **Majumdar, A. S.**, Ray, D., **2025**. Delving into Olivine-Clay replacement in Terrestrial Analog: Insights on Martian alteration process. **Goldschmidt 2025 Conference**. Prague, Czech Republic.

2. Saha, N., **Majumdar, A. S.**, Ray, D., **2024**. Characterization of Hydrous Sulfates in Matanomadh Formation - A Martian Analog. **MetMess 2024**. PRL, Ahmedabad, India
3. Bose, A., **Majumdar, A. S.**, Ray, D., **2024**. Investigation of Martian alteration process from Terrestrial Analogue study using scanning electron microscopy and electron microprobe. **EMSI 2024**, IIT Bombay, India
4. Das, A., **Majumdar, A. S.**, Ray, D., **2024**. Aqueous alteration in Nakhilites. **MetMess 2022**, PRL, Ahmedabad, India.
5. Bose, A., Das, A., **Majumdar, A. S.**, Ray, D., **2024**. Insights on Martian alteration process from Terrestrial analog study on olivine-to-clay replacement. **ICEPH 2024**, PRL, Ahmedabad, India
6. Das, A., **Majumdar, A. S.**, and Ray, D., **2023**. Meteorite found in Antarctica - Unlock the aqueous history of Mars. **IPSC 2023**, PRL Ahmedabad, India.
7. Das, A., **Majumdar, A. S.**, and Ray, D., **2022**. Secondary minerals in Nakhla meteorite: Implications for hydration of Martian crust. **MetMeSS 2022**, PRL Ahmedabad, India.
8. Chakraborty, S., **Majumdar, A. S.**, and Mukul, M., **2017**. Fluid-assisted ductile deformation in the Main Central Thrust, Sikkim Himalaya, India. **AGU FALL Meeting 2017**, USA.
9. **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**, India.
10. **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**, Min. Mag. 77(5), 1674.
11. **Majumdar, A. S.***, King, H.E., Kusebauch, C., and Putnis, A., **2012**. Pseudomorphic replacement of diopside during interaction with (Ni,Mg)Cl₂ aqueous solutions. **EMC 2012**, Frankfurt, Germany.

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