

Dr. Saurabh Mathur

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Areas of Research Interest

Geology: Petroleum Geology, Remote Sensing & GIS, Geoheritage, Geotourism.

Academic Qualifications

Doctor of Philosophy (Ph.D.) in Geology 2018 - 2021

Suresh Gyan Vihar University, Jaipur, Rajasthan, India (*Accredited by NAAC with "A" Grade*)

Thesis Title: Geological and Remote Sensing Investigation of Significant Geoheritage Sites of Western Rajasthan, India: Implication for Geopark

Master of Science (M.Sc.) in Geology, 88.50% 2016 - 2018
Jai Narain Vyas University, Jodhpur, Rajasthan, India

Bachelor of Science in Petroleum Technology, 64.86 % 2013 - 2016
Lachoo Memorial College of Science and Technology, Jodhpur, Rajasthan, India

Senior Secondary (12th), 60.00 % 2012 – 2013
Delhi Public School, Jodhpur, Rajasthan, India

Matriculation (10th), CGPA 7.2 2010 – 2011
Delhi Public School, Jodhpur, Rajasthan, India

Post-Doctoral Experience 13 March 2024 to Present

Center for Emerging Technologies for Sustainable Development (CETSD), Indian Institute of Technology, Jodhpur, Rajasthan, INDIA

- Geodiversity Indexing: Quantitative Mapping of natural terrain utilizing various GIS tools related to **petroliferous basins of western Rajasthan** for varied geological applications.
- Project Technical Assistant: Geological Study of REE bearing Siwana Ring Complex of **petroliferous Barmer Basin**.
- Hydrogeological Study: Delineation of watershed, NDVI, NDWI map preparations, Preparation of technical project reports.

(see list of publications)

Expertise and proficiency

- Advance Scientific Equipments: SEM, XRD, Chemisorption, BET, ICP-MS, ED-XRF, AAS, FTIR and HPLC for various lab testings and analysis used in petrochemical industries.
- Software: ArcGIS, ERDAS Imagine, ENVI, Google Earth Engine, Microsoft Office Suite, Origin Lab.

International Academic Visits

- i) Participated in the International Conference on Geopark - 2017 from 29th Sept. to 3rd Oct., 2017 and Field Visit to Yehliu Geopark, held at **Taipei, Taiwan**.
- ii) Field visit to Langkawi Geopark and participated in Group Discussions on Geopark concept at UKM (Universiti Kebangsaan Malaysia), **Kuala Lumpur, Malaysia** from 4 - 8 Oct. 2017.
- iii) Field Visit to Satun Geopark, **Thailand**, from 16 to 21 June, 2018.
- (iv) International conference and field visit to Zara Geopark, **Spain** from 17 to 24 October, 2019.
- (v) Field visit to Naturtejo Geopark, **Lisbon, Portugal** from 25 to 28 October, 2019.

International Conferences Attended

- (i) **38th INCA International Congress** on “*Emerging Technologies in Cartography*” held at Hyderabad from 29th to 31st October, 2018.
Paper Presented: Morphometric Analysis of Huge Outcrops of Sedimentary and Volcanic Igneous Rocks of the Sarnu Area of the Barmer Basin, Western Rajasthan, India: **A GIS and Global Mapper Software Approach.**
- (ii) International Conference on Ediacaran and Ediacaran-Cambrian Transition (IMECT-2019) held at **Guadalupe (Spain)** from 17th to 24th October, 2019.
Paper Presented: Ediacaran fauna of the Jodhpur Group (Marwar Supergroup) in Jodhpur City, Western Rajasthan, India: Implication for potential Geoheritage Sites.
- (iii) International Conference on Recent Perspectives on Climate Change and Sustainable Development (RPSCD-2019) held at Suresh Gyan Vihar University, Jaipur from 8th to 10th November, 2019.
Paper Presented: Landslide in rocks of Jodhpur Group at Masuria Hill in Jodhpur, western Rajasthan, India: Its causes and threat to significant geoheritage and got the award for best presenter.
- (iv) International Conference on Earth: From Archaean to Proterozoic (ICEAP- 2024) held at Dept. of Geology, M.L.S. University, Udaipur from 19th to 21st December 2024.
Paper Presented: Geoheritage Significance of REE bearing Siwana Ring Complex, Western Rajasthan, India: Implication for a Potential Geopark Site.

Awards & Certificates

- (i) Certificate on workshop on various analytical instruments utilize in petrochemical industries, 2026.

- (ii) Received best paper Presenter award in 5th International Conference on Challenges & Solutions for Sustainable Environment held at **Centre for climate change and water Research, SGV. University, Jaipur** (*Accredited by NAAC with “A” Grade*), 2019.
- (iii) **Received best paper Presenter award** in GEOYOUTH - 2018 held at MLSU, Udaipur in December, 2018.
- (iv) Received **best paper Presenter award** in 7th All India student symposium on geology held at MLSU, Udaipur in December, 2016.

List of Publications

- (i) **Mathur Saurabh** and Aadhar Saran. (2026). Sustainable Water Management in Hotel Infrastructure: Strategies for Conservation and Efficiency. **Springer Nature** (Accepted).
- (ii) **Mathur Saurabh**, Rathore S.S., Haque Ishfaul, and Mathur S.C. (2025). Geodiversity Assessment of Jodhpur Region of Western Rajasthan, India: A Remote Sensing and GIS-based Quantitative Approach. *International Journal of Geoheritage and Parks* 13(3): 412 – 423
- (iii) **Mathur Saurabh**, Rathore S.S., Chauhan Gaurav, Shukla Anugya, and Mathur S.C. (2025). Geoheritage Significance of Siwana Ring Complex, **Barmer Basin**, Western Rajasthan, India: Implication for a Potential Geopark Site, *Geoheritage* 17(131): 1-15.
- (iv) Rathore S.S., **Mathur Saurabh**, Mathur S.C. (2024). Step Wells of Jodhpur, Western Rajasthan, India: Implication for Hydro-geosites and Hydro-geotourism. *Geoheritage* 16:37, 1 – 18.
- (v) **Mathur Saurabh**, Sharma Sudhanshu, Singh S.K., Thakkar M.G., Chauhan Gaurav, Rathore S.S., Mathur S.C. (2023). Assessment and Threat to Significant Geoheritage of Soorsagar Formation of Jodhpur Group of Marwar Supergroup, Western Rajasthan, India: A Geological and Remote Sensing Approach. *Geoheritage* 15(127): 1- 18.
- (vi) **Mathur Saurabh**, Sharma Sudhanshu, Singh S.K., Rathore S.S., Mathur S.C. (2023). Late Cretaceous - Early Paleocene Geodiversity of Fatehgarh Formation of **Petroliferous Barmer Basin**, Western Rajasthan, India: A Potential Geopark Site. *Geoheritage* 15:54, 1-18.
- (vii) **Mathur Saurabh**, Sharma Sudhanshu, Shruti Kanga, Singh S.K., C.P.Khichi., Mathur S. C., M.S. Nathawat & S.S. Rathore (2022). Landslide in rocks of Jodhpur Group at Masuria hill in Jodhpur, western Rajasthan, India: Its causes and threat to significant geoheritage. *ANNALS, NAGI* 42 (1), 1–15.

- (viii) **Mathur Saurabh**, Sharma Sudhanshu, Singh S.K. & Mathur S. C. (2021). Qualitative Assessment of Geoheritage for Geotourism promotion: A case study from Mehrangarh Ridge in Jodhpur city, Western Rajasthan, India. *Geoheritage*. 13:80, 1-20.
- (ix) **Mathur Saurabh**, Sudhanshu, Singh S.K., Mathur S.C. (2020). Paleontological Resources for Geotourism in **Barmer Basin** of Western Rajasthan, India: Implication for a National Fossil Park Development, *Geojournal of Tourism and Geosites*, vol. 28(1), 203-216.
- (x) **Mathur Saurabh**, Sudhanshu, Singh S.K., Mathur S.C (2019). Ediacaran Fauna of the Jodhpur Group (Marwar Supergroup) in Jodhpur city, Western Rajasthan, India: Implication for potential Geoheritage Sites, *Estudios Geologicos, Spain*, vol. 75 (2), e- 105, 1-4.
- (xi) Mathur Sonal, Tripathi R. P., Mathur S. C., **Mathur Saurabh**. (2019b). Mossbauer Spectroscopic Study of Phosphatic Sediments collected from Fatehgarh Formation of the Northern **Barmer Basin**, Western Rajasthan. *Journal of Journal of Geological Society of India*, 94, 590-594.
- (xii) Mathur Sonal, Tripathi R.P., Mathur S.C., **Mathur Saurabh**, Gaur S.D. (2019a). Implication from Chemical study of Magnetic Spherules from a Thin Ferruginous Layer Located in Fatehgarh Formation of **Barmer Basin**, India. *Journal of Geological Society of India*, 93, 56-60.
- (xiii) Mathur S.C., Shekhawat N. S., Nama S.L., Khichi C.P., Soni A., **Mathur Saurabh**, Parihar V.S. (2018). The wood-boring trace fossil *Asthenopodichnium* from Paleocene sediments of the Barmer Hill Formation, **Barmer Basin** Western Rajasthan, India. *Current Science*, 114 (7), 1544-1548.

Book Chapters

- (i) Sudhanshu, Singh S. K., Rathore S.S., **Mathur Saurabh** and Mathur S.C. (2021a) Jaipur, Rajasthan - A potential geopark of India. INTACH volume on potential Geopark of India;129-148.
- (ii) Rathore S.S., **Mathur Saurabh**, Kanga Shruti and Mathur, S.C (2021b). Ajmer, Rajasthan - A potential national geopark of India. INTACH volume on potential Geopark of India; 211-231.
- (iii) **Mathur Saurabh.**, Rathore S.S. & Mathur S. C (2021c). Jodhpur, Rajasthan - a Potential Geopark of India: One of the World's largest Terrestrial Acidic Volcanism and a Significant Ediacaran Period Site with Natural geoheritage as well as Historical - Cultural Heritage Attributes. INTACH volume on potential Geopark of India; 242-263.

Publications under Communication

Geological and Cultural Heritage Stewardship of the Mehrangarh Geodiversity Hotspot, Jodhpur: A Framework for Geopark Designation to Promote Geotourism in India for Sustainability

Significance of step wells of Jodhpur, India: Their Rejuvenation through hydro-geotourism concept under framework of Geopark

Hobbies – Passion

- (i) Nature conservation and restoration through conducting outreach and public awareness programs
- (ii) Swimming
- (iii) Playing Harmonium and Singing.



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