

Currently: Associate Professor, Dept. of Geology and Geophysics, Indian Institute of Technology, Kharagpur

Personal information

Date of Birth: 07.07.1978

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Academics

Degree/Examination	Institution	Year
Ph.D.	Mineralogisch-Petrologisches Institut, Universität Bonn, Germany	2002–2005
M.Sc. (Applied Geology)	Indian Institute of Technology (IIT), Kharagpur, India	2000–2002
B.Sc. (Hons) Geology	University of Delhi, India	1997–2000
Senior Secondary Examination (AISSE)	Delhi Public School, Delhi, India	1996
Secondary Examination (ICSE)	St. Joseph's College, Darjeeling, India	1994

Positions

Position	Institution	Period
Associate Professor	Dept. of Geology and Geophysics, IIT, Kharagpur	Mar 2016–present
Assistant Professor	Dept. of Geology and Geophysics, IIT, Kharagpur	May 2009–Mar 2016
Senior Post doctoral researcher	Institut für Mineralogie, University of Münster, Germany	Jan 2006–Apr 2009

Honors/awards

- Member, Nominations Committee (2021-23), Geochemical Society
- Alexander von Humboldt Fellowship (Germany) for experienced researchers, 2019
- IIT Kharagpur Faculty Excellence Award, 2017
- National Geoscience Award-2014, President of India
- K.R. Gupta Gold Medal-2015, Geological Society of India
- Prof. C Naganna Gold Medal-2015, Mineralogical Society of India
- Best teacher award of IIT Kharagpur for academic sessions Autumn 2014–15, 2015–16, and 2018–19
- Silver medal, M.Sc. (Applied Geology)-2002, IIT Kharagpur
- Gold medal, B.Sc. (Hons) Geology-2000, University of Delhi
- All India rank 4 (98.7 percentile) in Graduate Aptitude Test in Engineering (GATE)-2002
- Junior Research Fellowship (JRF) of the Council for Scientific and Industrial Research (CSIR) (not availed)

Ph.D. thesis

Title: Mesoproterozoic rifting and Pan-African continental collision: Evidences from alkaline complexes along the Craton-Eastern Ghats Belt suture in Peninsular India

Supervisor: Prof. Michael M. Raith, University of Bonn, Germany

Research areas

- Geochemistry, geochronology, isotope geology, petrology, cosmochemistry

Current research interests

- In-situ U-Pb geochronology (zircon, rutile, monazite, baddeleyite) using LA-ICPMS
- In-situ isotopic measurements (Hf in zircon, B and Li in tourmaline, mica, pyroxene, amphibole, Sr in apatite using LA-MC-ICPMS)
- In-situ measurements of trace elements in fluid inclusions in minerals
- Cr-isotopes in Archean banded iron formation and the oxygenation history of the Archean atmosphere
- The Hadean/Archean crustal evolution of the Indian shield
- Proterozoic crustal accretion and growth of the Indian Shield
- Rare Earth Element mineralization in carbonatites and peralkaline granitoids
- Textures, microstructures and geochemistry of rocks from bolide impact craters
- Replacement reaction mechanisms and mass transfer processes in minerals

Teaching and research responsibilities

- In-charge of Radiogenic Isotope LA-MC-ICPMS laboratory, IIT Kharagpur
- Teaching: Geochemistry (Theory + Laboratory), Igneous Petrology (Theory + Laboratory), Field Geology

Member of Professional bodies

- Member, European Association of Geochemistry
- Life member, Geological Society of India
- Life member, Mineralogical Society of India

Member, Editorial board

Associate Editor, Geochemistry (Elsevier), 2015-present
Associate Editor, Terra Nova (Wiley), 2020-

List of publications

Published in peer-reviewed journals

1. Adak, S., Pal, D.C., **Upadhyay, D.**, Mondal, R. Texture and geochemistry of magnetite-ilmenite intergrowth and secondary hematite in Fe-Ti oxide pods from the Singhbhum Shear Zone, eastern India: tracing hydrothermal alteration and element redistribution, *Geochemistry*, in press (**IF = 2.871**).
2. Pandey, O.P., Mezger, K., Söderlund, U., **Upadhyay, D.**, Srivastava, R., Gautam, G.C., Ernst, R. (2020). Geochronology, whole-rock geochemistry and Sr-Nd isotopes of the Bhanupratappur mafic dyke swarm: evidence for a common Paleoproterozoic LIP event at 2.37-2.36 Ga in the Bastar and Dharwar cratons, *Precambrian Research*, 347, 105853. (**IF = 4.726**)
3. Singha Deb, A.K, Sahu, P., Boda, A., Ali, S.M., Shenoy, K.T., **Upadhyay, D.** (2020). DFT and MD Simulations Supplemented Experiments for Isotopic Fractionation of Zinc Compounds Using Macrocyclic Crown Ether Appended Polymeric Resin, *Phys. Chem. Chem. Phys.*, 22, 14682-14693 (**IF = 3.567**).
4. Chakraborty, T., **Upadhyay, D.** (2020). The geochemical differentiation of S-type pegmatites: constraints from major-trace element and Li-B isotopic composition of muscovite and tourmaline, *Contributions to Mineralogy and Petrology*, 175, 60. (**IF = 4.020**).
5. Ranjan, S., **Upadhyay, D.**, Pruseth, K.K., Nanda, J.K. (2020). Detrital zircon evidence for change in geodynamic regime of continental crust formation 3.7–3.6 billion years ago, *Earth and Planetary Science Letters*, 538C, 116206. (**IF = 5.164**)
6. Ranjan, S., **Upadhyay, D.**, Abhinay, K., Srikantappa, C. (2020). Petrogenesis of Paleoproterozoic and Neoproterozoic Tonalite-Trondhjemite-Granodiorite (TTGs) and granites from the Western Dharwar Craton, southern India: implications for Archean continental growth and geodynamics, *Precambrian Research*, 340, 105630. (**IF = 4.726**)
7. Ray, D., Misra, S. **Upadhyay, D.**, Newsom, H, Peterson, E., Dube, A., Satyanaryanan, M. (2020). Iron-nickel metallic components bearing silicate-melts and coesite from Ramgarh impact structure, west central India: Possible identification of the impactor, *Journal of Earth System Science*, 129, 118. (**IF = 1.237**)
8. Ao, A., Bhowmik, S.K., **Upadhyay, D.** (2020). P-T-melt/fluid Evolution of abyssal mantle peridotites from the Nagaland

- Ophiolite Complex, NE India: Geodynamic significance, *Lithos*, 354-355, 105344. **(IF = 4.821)**
9. Dora, M., **Upadhyay, D.**, Randive, K., Shareef, M., Baswani, S., Ranjan, S. (2020). Trace element geochemistry of magnetite and pyrite and sulfur isotope geochemistry of pyrite and barite from the Thanewasna Cu-(Au) deposit, western Bastar Craton, Central India: implication for ore genesis, *Ore Geology Reviews*, 117, 103262. **(IF = 4.098)**
 10. Hazarika, P., Bhuyan, N., **Upadhyay, D.**, Kumar, A., Singh, N. (2019). The nature and sources of ore-forming fluids in the Bhukia gold deposit, Western India: constraints from chemical and boron isotopic composition of tourmaline, *Lithos*, 350–351, 105227. **(IF = 4.821)**
 11. Baidya, A.S., Pal, D.C., **Upadhyay, D.** (2019). Chemical weathering of garnet in Banded-Iron Formation: Implication for the mechanism and sequence of secondary mineral formation and mobility of elements, *Geochimica et Cosmochimica Acta*, 265, 198–220. **(IF = 5.002)**
 12. Ackerman, L., Polák, L., Magna, T., Rapprich, V., Ďurišová, J., **Upadhyay, D.** (2019). Highly siderophile element geochemistry and Re-Os isotopic systematics of carbonatites: insights from Tamil Nadu, India, *Earth and Planetary Science Letters*, 520, 175–187. **(IF = 5.164)**
 13. **Upadhyay, D.**, Chattopadhyay, S., Mezger, K. (2019). Formation of Paleoproterozoic-Mesoarchean Na-rich (TTG) and K-rich granitoid crust of the Singhbhum craton, eastern India: constraints from major and trace element geochemistry and Sr-Nd-Hf isotope composition, *Precambrian Research*, 327, 255–272. **(IF = 4.726)**
 14. Pandey, O.P., Mezger, K., Ranjan, S., **Upadhyay, D.**, Villa, I.M. Villa, Nägler, T.F., Vollstaedt, H. (2019). Genesis of the Singhbhum Craton, eastern India; implications for Archean crust-mantle evolution of the Earth, *Chemical Geology*, 512, 85–106. **(IF = 4.169)**
 15. Chakraborti, T.M., Ray, A., Deb, G.K., **Upadhyay, D.**, Chakrabarti, R. (2019). Evidence of crustal reworking in the Mesoarchean: Insights from geochemical, U-Pb zircon and Nd isotopic study of a 3.08–3.12 Ga ferro-potassic granite-gneiss from north-eastern margin of Singhbhum Craton, India, *Lithos*, 330-331, 16–34. **(IF = 4.821)**
 16. Chakraborty, T., **Upadhyay, D.**, Ranjan, S., Pruseth, K.L., Nanda, J.K. (2019). The Geological evolution of the Gangpur Schist Belt, eastern India: constraints on the formation of the Greater Indian Landmass in the Proterozoic, *Journal of Metamorphic Geology*, 37, 113–151. **(IF = 4.182)**
 17. Pant, N.C., Jimenez-Espejo, F.J., Cook, C.P., Biswas, P., McKay, R., Marchesi, C., Ito, M., **Upadhyay, D.**, Kuroda, J., Shimizu, K., Senda, R., Fliedert, T.V.D, Takano, Y., Suzuki, K., Escutia, C., Shrivastava, P.K. (2018). Suspected meteorite fragments in marine sediments from East Antarctica, *Antarctic Science*, 30, 307–321. **(IF = 1.653)**
 18. Ranjan, S., **Upadhyay, D.**, Abhinay, K., Pruseth, K.L., Nanda, J.K. (2018). Zircon geochronology of deformed alkaline rocks along the Eastern Ghats Belt margin: India-Antarctica connection and the Enderbia continent, *Precambrian Research*, 310, 407–424. **(IF = 4.726)**
 19. Mondal, S., **Upadhyay, D.**, Banerjee, A. (2017). Origin of Rapakivi feldspar by a fluid-induced coupled dissolution-precipitation process, *Journal of Petrology*, 58, 1393–1418. **(IF = 4.322)**
 20. Ackerman L., Magna, T., Rapprich, V., **Upadhyay, D.**, Kratky, O., Cejkova, B., Erban, V., Kochergina, Y., Hrstka T. (2017). Contrasting petrogenesis of temporally-related carbonatites from Samalpatti and Sevattur, Tamil Nadu, India, *Lithos*, 284–285, 257–275. **(IF = 4.821)**
 21. Ray, D., **Upadhyay, D.**, Misra, S., Newsom, H.E. (2017). New insights on petrography and geochemistry of impactites from the Lonar crater, India, *Meteoritics and Planetary Science*, 52, 1577–1599. **(IF = 2.318)**
 22. Sahoo, D., Pruseth, K.L., **Upadhyay, D.**, Ranjan, S., Pal, D.C., Banerjee, R., Gupta, S. (2017). New constraints from zircon, monazite and uraninite dating on the commencement of sedimentation in the Cuddapah basin, India, *Geological Magazine*, 155, 1230–1246. **(IF = 2.490)**
 23. Hazarika, P., **Upadhyay, D.**, Pruseth, K.L. (2017). Episodic tourmaline growth and reequilibration in mica-pegmatite from the Bihar Mica Belt, India: major and trace element variations under pegmatitic and hydrothermal conditions, *Geological Magazine*, 154, 68–86. **(IF = 2.490)**
 24. Baidya, A.S., Paul, J., Pal, D.C., **Upadhyay, D.** (2016). Mode of occurrences and geochemistry of amphibole in the Kolihan-Chandmari copper deposits, Rajasthan, India-implications for fluid sources and evolution vis-à-vis sulfide mineralization, *Ore Geology Reviews*, 80, 1092–1110. **(IF = 4.098)**
 25. Bermingham, K.R., Mezger, K., Scherer, E.E., Horan, M., Carlson, R., **Upadhyay, D.**, Magna, T., Pack, A. (2016). Barium Isotope Abundances in Meteorites and Their Implications for Early Solar System Evolution, *Geochimica et Cosmochimica Acta*, 175, 282–298. **(IF = 5.002)**
 26. Chattopadhyay, S., **Upadhyay, D.**, Nanda, J.K., Mezger, K., Pruseth, K.L., Berndt, J. (2015). Proto-India was a part of

- Rodinia: evidence from Grenville-age suturing of the Eastern Ghats Province with the Paleoproterozoic Singhbhum craton, *Precambrian Research*, 266, 506–529. **(IF = 4.726)**
27. **Upadhyay, D.**, Kooijman, E., Singh, A.K., Mezger, K., Berndt, J. (2015). The basement of the Deccan traps and its Madagascar connection: constraints from xenoliths, *Journal of Geology*, 123, 295–310. **(IF = 2.050)**
 28. **Upadhyay, D.**, Chattopadhyay, S., Kooijman, E., Mezger, K., Berndt, J. (2015). Corrigendum to “Magmatic and metamorphic history of Paleoproterozoic tonalite-trondhjemite-granodiorite (TTG) suite from the Singhbhum craton, eastern India” [Precambrian Res. 252 (2014) 180–190], *Precambrian Research*, 260, 161–162 **(IF = 4.726)**
 29. Raith, M.M., Mahapatro, S.N., **Upadhyay, D.**, Berndt, J., Mezger, K., Nanda, J.K. (2014). Age and P-T evolution of the Neoproterozoic Turkel Anorthosite Complex, Eastern Ghats Province, India, *Precambrian Research*, 254, 87–113. **(IF = 4.726)**
 30. **Upadhyay, D.**, Chattopadhyay, S., Kooijman, E., Mezger, K., Berndt, J. (2014). Magmatic and Metamorphic History of Paleoproterozoic Tonalite-Trondhjemite-Granodiorite (TTG) Suite from the Singhbhum Craton, Eastern India, *Precambrian Research*, 252, 180–190. **(IF = 4.726)**
 31. Hazarika, P., **Upadhyay, D.**, Mishra, B. (2013). Contrasting geochronological evolution of the Rajpura Dariba and Rampura Agucha metamorphosed Zn-Pb deposit, Aravalli-Delhi Belt, India, *Journal of Asian Earth Sciences*, 73, 429–439. **(IF = 3.456)**
 32. **Upadhyay D.** (2012). Alteration of plagioclase to nepheline in the Khariar alkaline complex, SE India: constraints on metasomatic replacement reaction mechanisms, *Lithos*, 155, 19–29. **(IF = 4.821)**
 33. Schulz, T., **Upadhyay, D.**, Münker, C., Mezger, K. (2012). Formation and exposure-history of non-magmatic iron meteorites and winonaites: Clues from Sm and W isotopes, *Geochimica et Cosmochimica Acta*, 85, 200–212. **(IF = 5.002)**
 34. **Upadhyay, D.**, Pruseth, K.L. (2012). Fluid-induced dissolution breakdown of monazite from Tso Moriri complex, NW Himalayas: evidence for immobility of trace elements, *Contributions to Mineralogy and Petrology*, 164, 303–316. **(IF = 4.020)**
 35. Kooijman, E., **Upadhyay, D.**, Mezger, K., Raith, M.M., Berndt, J. (2011). Response of the U-Pb chronometer and trace elements in zircon to ultrahigh-temperature metamorphism: the Kadavur anorthosite complex, southern India, *Chemical Geology*, 290, 177–188. **(IF = 4.169)**
 36. S. Rekha, **Upadhyay, D.**, Bhattacharya, A., Kooijman, E., Goon, S., Mahato, S., Pant, N.C. (2011). Lithostructural and chronological constraints and implications for tectonic restoration of Proterozoic accretion in the eastern Indian Precambrian shield, *Precambrian Research*, 187, 313–333. **(IF = 4.726)**
 37. Saha, L., Pant, N.C., Pati, J.K., **Upadhyay, D.**, Berndt J., Bhattacharya, A., Satyanaryanan, M. (2011). Neoproterozoic high-pressure margarite-phengitic muscovite-chlorite corona mantled corundum in quartz-free high-Mg, Al phlogopite-chlorite schists from the Bundelkhand craton, north central India, *Contributions to Mineralogy and Petrology*, 161, 511–530. **(IF = 4.020)**
 38. Raith, M.M., Sengupta, P., Kooijman, E., **Upadhyay, D.**, Srikantappa, C. (2010). Corundum-leucosome-bearing aluminous gneiss from Ayyarmalai, Southern Granulite Terrain, India: A textbook example of vapour phase-absent muscovite-melting in silica-undersaturated aluminous rocks, *American Mineralogist*, 95, 897–907. **(IF = 2.63)**
 39. Sprung, P., Scherer, E.E., **Upadhyay, D.**, Leya, I., Mezger, K. (2010). Non-nucleosynthetic heterogeneity in non-radiogenic stable Hf isotopes: implications for early solar system chronology, *Earth and Planetary Science Letters*, 295, 1–11. **(IF = 5.164)**
 40. **Upadhyay, D.**, Gerdes, A., Raith, M. M. (2009). Unraveling sedimentary provenance and tectonothermal history of high temperature metapelites using zircon and monazite chemistry: a case study from the Eastern Ghats Belt, India, *Journal of Geology*, 117, 665–683. **(IF = 2.050)**
 41. **Upadhyay, D.**, Scherer, E. E., Mezger, K. (2009). Neodymium-142 evidence for an enriched Hadean reservoir in cratonic roots, *Nature*, 459, 1118–1121. **(IF = 43.070)**
 42. **Upadhyay, D.**, Scherer, E. E., Mezger, K. (2008). Fractionation and mixing of Nd isotopes during thermal ionization mass spectrometry: implications for high precision $^{142}\text{Nd}/^{144}\text{Nd}$ analyses, *Journal of Analytical Atomic Spectrometry*, 23, 561–568. **(IF = 3.646)**
 43. **Upadhyay, D.** (2008). Alkaline magmatism along the southeastern margin of the Indian shield: Implications for regional geodynamics and constraints on craton-Eastern Ghats Belt suturing, *Precambrian Research*, 162, 59–69. **(IF = 4.726)**
 44. **Upadhyay, D.**, Raith, M. M., Mezger, K., Bhattacharya, A., Kinny, P. D. (2006). Mesoproterozoic rifting and Pan-

African continental collision in SE India: evidence from the Khariar alkaline complex, *Contributions to Mineralogy and Petrology*, 151, 434–456. (IF = 4.020)

45. **Upadhyay, D.**, Raith, M. M., Mezger, K., Hammerschmidt, K. (2006). Mesoproterozoic rift-related alkaline magmatism at Elchuru, Prakasam Alkaline Province, SE India, *Lithos*, 89, 447–477. (IF = 4.821)
46. **Upadhyay, D.**, Raith, M. M. (2006). Petrogenesis of the Kunavaram alkaline complex and the tectonothermal evolution of the neighboring Eastern Ghats Belt granulites, SE India, *Precambrian Research*, 150, 73–94. (IF = 4.726)
47. **Upadhyay, D.**, Jahn-Awe, S., Pin, C., Paquette, J.-L., Braun, I. (2006). Neoproterozoic alkaline magmatism at Sivamalai, Southern India, *Gondwana Research*, 10, 156–166. (IF = 7.655)
48. **Upadhyay, D.**, Raith, M. M. (2006). Intrusion age, geochemistry and metamorphic conditions of a quartz-monzonite intrusion at the craton-Eastern Ghats Belt contact near Jojuru, India, *Gondwana Research*, 10, 267–276. (IF = 7.655)
49. Mishra, B., **Upadhyay, D.**, Bernhardt, H. J. (2006). Metamorphism of the host and associated rocks at the Rajpura-Dariba massive sulfide deposit, Northwestern India, *Journal of Asian Earth Sciences*, 26, 21–37. (IF = 3.456)

Under review/revision/preparation

1. Baidya, A.S., Sen, A., Pal, D.C., **Upadhyay, D.**, Ore-forming processes in the Khetri Copper Belt, western India: constraints from trace element chemistry of pyrite and C-O isotope composition of carbonates, *Mineralium Deposita*, under review.
2. Singh, A.K., **Upadhyay, D.**, Pruseth, K.L., Mezger, K., Nanda, J.K., Maiti, S., Saha, D. The Simlipal complex, Singhbhum craton, eastern India: remnant of a Mesoarchean large impact crater, *Journal of the Geological Society of India*, under revision.
3. Chakraborty, T., **Upadhyay, D.**, Abhinay, K. Tourmaline growth and evolution in pelitic and psammitic schists and quartzites: constraints from textural, chemical and B-isotopic study from the Gangpur Schist Belt, eastern India, *Lithos*, under review.
4. Singh, A.K., **Upadhyay, D.**, Mezger, K., Pruseth, K.L., Nanda, J.K. Age, provenance and tectonic setting of metasedimentary rocks of the Simlipal Complex, Singhbhum Craton, eastern India, *Precambrian Research*, under review.
5. **Upadhyay, D.**, Mondal, S., Patel, A.K., Mishra, B., Pruseth, K.L., Bhushan, S.K. Rare Earth Element precipitation induced by non-redox transformation of magnetite to hematite: microtextural and geochemical evidence from the Kamthai carbonatite complex, western India, *American Mineralogist*, under review.
6. Dora, M.L., **Upadhyay, D.**, Malviya, V., Meshram, T., Baswani, S.R., Randive, K.R., Meshram, R., Ranjan, S. Neoproterozoic crustal growth and reworking in the Western Bastar Craton, Central India: Constraints from zircon and monazite geochronology and major-trace element geochemistry, *Precambrian Research*, under review.
7. Patel, A.K., Mishra, B., **Upadhyay, D.**, Pruseth, K.L. Hydrothermal REE mobilization and mineralization in the Amba Dongar carbonatite complex, western India, under preparation.
8. Ghosh, U., **Upadhyay, D.**, Mishra, B., Abhinay, K. Using tourmaline chemistry to determine the nature of W-mineralizing fluid: an example from the Balda and Motiya W-prospects, western India, under preparation.
9. Pandey, O.P., Mezger, K., **Upadhyay, D.**, Singh, A.K., Söderlund, U., Gumsley, A. Major-trace element geochemistry and Sr-Nd isotopes of mafic dykes of the Singhbhum Craton in eastern India: a window into the evolution of the lithospheric mantle, under preparation.
10. Patel, S., **Upadhyay, D.**, Mishra, B., Abhinay, K., Sarangi, A.K. Multiple episodes of uranium mineralization/remobilization in the Singhbhum Shear Zone, eastern India: constraints from chemical and boron isotopic composition of tourmaline, under preparation.
11. Hazarika, P., **Upadhyay, D.**, Mishra, B., Borah, P., Abhinay, K. B-release and isotopic fractionation during metamorphic dehydration in the Hutti-Maski and Kolar greenstone belts, Eastern Dharwar Craton, India: implications for the source of mineralizing fluid in greenstone-hosted orogenic gold deposits, under preparation.
12. Ghosh, U., **Upadhyay, D.**, Mishra, B., Abhinay, K. Using tourmaline chemistry to determine the nature of W-mineralizing fluid: an example from the Balda and Motiya W-prospects, western India, under preparation.

Conference proceedings and abstracts

1. Chatterjee, S., Pandey, O.P., Ravindran, A., Mezger, K., **Upadhyay, D.** Mafic Dykes from Archean Singhbhum Craton: A Window into the Evolution of Sub-Continental Lithospheric Mantle, *Swiss Geoscience Meeting, Zurich*, 2020.
2. Maltese, A., Caro, G., Pandey, O.P., **Upadhyay, D.**, Mezger, K. First constraints on the role of Hadean components

- during the formation of Paleoproterozoic TTGs from India, *Swiss Geoscience Meeting, Zurich*, 2020.
3. Singh, T., **Upadhyay, D.** Singh, A.K., Mishra, B., Patel, A.K. The composition of the REE mineralizing fluid in the Amba Dongar carbonatite complex: constrain from chemistry of fluorite and its fluid inclusions, *AGU Fall*, 2020.
 4. Mondal, S., **Upadhyay, D.**, Banerjee, A. Rare earth element mineralization during prolonged hydrothermal alteration of the Siwana peralkaline granite, western India, *AGU Fall*, 2020.
 5. Ghosh, U., **Upadhyay, D.** Fluid-rock interaction in calc-silicate rocks and the role of halogens in W mobilization and precipitation: clues from wollastonite skarn at Belka Pahar, Rajasthan, western India, *AGU Fall*, 2020.
 6. Singh, T., **Upadhyay, D.**, Patel, A.K., Mishra, B. On the origin of fluorite mineralization in the Amba Dongar carbonatite complex, India: constraints from thermobarometry and chemistry of fluid inclusions in fluorite, *International Geological Congress*, 2020.
 7. Banerjee, A., **Upadhyay, D.**, Ranjan, S. The evolution of Archean greenstone successions of the Bundelkhand Craton, India: constraints from U-Pb dating and Hf isotope analyses of zircon, *International Geological Congress*, 2020.
 8. Mondal, S., **Upadhyay, D.**, Banerjee, A. Rare earth element mineralization during prolonged hydrothermal alteration of the Siwana peralkaline granite, *International Geological Congress*, 2020.
 9. Saha, R., Baidya, A.S., Pal, D.C., **Upadhyay, D.** Using biotite textural relations and chemistry to trace hydrothermal alteration and IOCG mineralization: an example from the Khetri Copper Belt, Rajasthan, *International Geological Congress*, 2020.
 10. Abhinay, K., **Upadhyay, D.** Paleo- and Mesoproterozoic crustal accretion and growth in the eastern Indian shield: constraints from zircon U-Pb geochronology of the Chhotanagpur Granitic Gneiss Complex, *International Geological Congress*, 2020.
 11. Patel, S., Mishra, B., **Upadhyay, D.**, Ozha, M.K. Textural and chemical study of brannerite from the Mohuldih uranium deposit, Singhbhum Shear Zone (SSZ), India: evidence of U, Ti, Fe mobilization during late stage of hydrothermal mineralization, *International Geological Congress*, 2020.
 12. Patel, A.K., Mishra, B., **Upadhyay, D.**, Pruseth, K.L. Fluid-assisted alteration of apatite and mobilization of rare earth elements in carbonatites from Amba Dongar, western India, *International Geological Congress*, 2020.
 13. Ghosh, U., **Upadhyay, D.** Oscillatory-zoned hydrothermal garnets record fluid-rock interaction at Belka Pahar scheelite-bearing wollastonite deposit in Rajasthan, *International Geological Congress*, 2020.
 14. Chakraborty, T., **Upadhyay, D.** Growth of tourmaline in metapelites and S-type granites/pegmatites: a geochemical study from the Gangpur Schist Belt, eastern India, *International Geological Congress*, 2020.
 15. Ranjan, S., **Upadhyay, D.**, Abhinay, K., Srikantappa, C. The evolution of the TTG crust in the Western Dharwar Craton, India: constraints from zircon U-Pb ages and Hf isotopes, *International Geological Congress*, 2020.
 16. Sorcar, N., Joshi, K.B., Arora, D., Pant, N.C., **Upadhyay, D.**, Ranjan, S. Reappraisal of late Neoproterozoic orogenesis in the Chilka Granulite Complex, Eastern Ghats Belt and Princess Elizabeth Land, East Antarctica, *International Geological Congress*, 2020.
 17. Mondal, S., **Upadhyay, D.**, Banerjee, A. Li-isotopic evidence for fluid exsolution & remobilization of REE-HFSE in peralkaline Siwana granite, *Goldschmidt Conference*, 2019.
 18. Maltese, A., Mezger, K., **Upadhyay, D.**, Scherer, E.E. A contribution to the Archean Hf record by bulk Lu-Hf single grain analysis of zircon, *Goldschmidt Conference*, 2019.
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