

**Curriculum Vitae: DR SISIR KANTI MONDAL**

Born: 25.12.1969, Indian Citizen

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## **CURRICULUM VITAE & COMPLETE LIST OF PUBLICATIONS: PROF. SISIR KANTI MONDAL**

### Education:

- 01/2000: PhD Science, Jadavpur University, Thesis: 'Study of chromite, sulfide, and noble metal mineralization in the Precambrian Nuasahi Ultramafic-Mafic Complex, Keonjhar district, Orissa, India'
- 1991-1993: MSc in Applied Geology, Jadavpur University, Dissertation: 'Ore geological aspects of the Chendapathar tungsten deposit, Bankura, India'
- 1988-1991: BSc, Jadavpur University, Geology (major), Physics, and Mathematics

### Postdoctoral research:

- 03/2008-04/2010: NordCEE Senior Postdoctoral Fellowship (Level 8), Nordic Centre for Earth Evolution (NordCEE), University of Copenhagen, Supervisor: Prof. Minik Rosing
- 07/2004-07/2006: AMNH Postdoctoral Fellowship, American Museum of Natural History, New York City, USA, Supervisor: Prof. Edmond Mathez
- 03/2002-02/2003: BOYSCAST fellowship, Indiana University, Bloomington, USA, Research host: Prof. Edward Ripley

### Employment:

- 07/2012-present: Professor, Department of Geological Sciences, Jadavpur University
- 01/2020-01/2022: HEAD, Department of Geological Sciences, Jadavpur University
- 07/2009-07/2012: Associate Professor, Dept. of Geological Sciences, Jadavpur University
- 03/2013-09/2013: Guest Teacher, Department of Geology, University of Calcutta
- 04/2000-06/2009: Lecturer (04/2000-08/2001), Senior Lecturer (09/2001-06/2006), Reader (07/2006-06/2009), Dept. of Geological Sciences, Jadavpur University
- 09/1997-04/2000: Indian Govt. CSIR Scientist, Refractories Division, Central Glass & Ceramic Research Institute, Kolkata

### Specialization:

- Ore Petrology-Geochemistry-Metallogeny
- Igneous Petrology
- Precambrian Geology

### Current research:

- Understanding the processes of PGE (Platinum Group Elements), Ni, Cu, Ti, V, and Sc-Nb-REE mineralisation using in situ trace element geochemistry of magnetite, chromite, olivine, base metal sulfides, and other accessory phases
- Geochemistry of PGEs, Os, and Ru Isotopes
- Petrogenesis of Layered Mafic Intrusions, Ophiolitic Complexes, Komatiites, Continental Flood Basalts, Mantle Xenoliths
- Sustainable Resourcing of PGEs: Primary distribution and secondary dispersion
- Exploration of PGE, Ni, Cu, Co, Ti, V, Sc, Nb-REE

### Member of faculty selection and other designated committees:

- PhD Thesis Examiner, Curtin University, Australia, 2026
- Advisor member of the UPSC Recruitment Board, 2026

- Member, Faculty Council of Natural and Mathematical Sciences, Presidency University, Kolkata, India (since 2025)
- West Bengal Joint Entrance Examinations Board 2025 (Postgraduate Admission)
- Expert External Evaluator of UTU-GreDiT doctoral researcher applications (Economic Geology), University of Turku, Finland, 2024
- PhD Thesis Examiner, Banaras Hindu University, Banaras, India, 2023
- PhD Thesis Examiner, Manipur Central University, India, 2022
- CSIR-Director-General's Nominee of Selection Committee, IIMT, Bhubaneswar, 2019
- External evaluator for Chair Professor appointment, IIT-Bombay, 2018
- Rector's Nominee in the Selection Committee, Pondicherry University, India, 2016
- Member, 'Nominations Committee', Geochemical Society (GS), 2018-2020
- IAGOD Secretary, Commission on Ore Deposits in Mafic & Ultramafic Rocks, 2013-2017
- IAGOD Regional Councillor, India, 2013-2016

#### Laboratory visits and laboratory in charge:

- Founder In-Charge, *Critical Metals & Sustainability Laboratory* (CMS-LAB), Dept. of Geological Sciences, Jadavpur University (since 2024)
- Visited LA-ICPMS Lab, Oregon State University, USA, *in situ* Pb isotope analysis; 2006
- Visited Ion-Probe Laboratory, Woods Hole Oceanographic Institute-MIT-LDEO-AMNH-RPI joint facility, USA; *in situ* trace element analysis; 2004, 2005
- Visited the Analytical Chemistry Laboratory and APSARA, Bhabha Atomic Research Centre (BARC, DAE), India. PGE analysis by INAA and RNAA; 1-month stay, 1997
- Laboratory in charge - UGC-sponsored computer laboratory, Dept. of Geological Sciences, Jadavpur University, 2000-2002 (3 years)
- Laboratory in charge - Applied Mineralogy Laboratory, Refractories Division, Central Glass and Ceramic Research Institute (CSIR-CGCRI), Kolkata, 1997-2000 (3 years)

#### Awards & honours:

- Sitaram Rungta Memorial Award by the Society of Geosciences and Allied Technology (SGAT), Bhubaneswar (Odisha), 2025
- CEHESH Trust of India Award for excellence in Earth Science 2025, Keonjhar (Odisha).
- WAST Fellow; Elected Fellow of the West Bengal Academy of Science & Technology (WAST), 2025
- JSPS Fellow, Invitational Fellowship (short-term) under the category 'Overseas Researchers with an Excellent Record of Research Achievements' to visit Japan for discussions, opinion exchanges, lectures, and other activities, 2012
- Prof. M.R. Srinivasa Rao Award, 'In recognition of valuable outstanding contribution to the field of Petrology', Geological Society of India, 2010
- Indian Government DST-BOYSCAST Fellowship to conduct postdoctoral research at Indiana University (USA), 2002
- Prof. N.N. Chatterjee Gold Medal for 'Outstanding Research in Economic Geology', Asiatic Society, India, 2000
- Fellow, Society of Economic Geologists (SEG, USA)
- Fellow, Geological Society of India, Bangalore, India
- AMNH Postdoctoral Research Fellowship, American Museum of Natural History, NYC
- Nordic Center for Earth Evolution (NordCEE) Senior Postdoctoral Fellowship, University of Copenhagen, Denmark, 2008-2010

- Research Associateship (Faculty Level Adjunct Honorary Appointment through the Museum Senate), American Museum of Natural History, NYC, USA, 2008-present
- Featured in a textbook published by Macmillan/ McGraw-Hill, NYC, National Centre for Science Literacy Education and Technology, Education Department, American Museum of Natural History (AMNH), and promoted by the AMNH and NASA. This book is part of the teaching materials for Grade 4 school children. 2006

#### Achievements:

- *Spearheaded* the roundtable on 'Advancing U.S.-India Collaboration on Critical Minerals and Energy Security', organised by the American Centre Kolkata (U.S. Consulate General Kolkata) on Feb 18, 2026
- *Chair* (SK Mondal & A Ambili), a session in the GEOSYNTH 2025, Annual Research Scholars' Day 2025, Dept of Earth Science, IIT-Roorkee, India, June 5 2025
- *Chair* (P Sanjuan, C Villanova-De-Benavent, SK Mondal, A Vymazalova, M Batista, E Ramanaidou), Session 5j, Goldschmidt 2025, Prague
- *Chair* (SK Mondal & L Reisberg), Session 7b, Goldschmidt 2021 (Virtual)
- *Chair* (JM Gonzalez-Jimenez, K Smit, S Timmerman, A Giulian, SK Mondal, S Aulbach), Session 03i, Goldschmidt 2019 Barcelona (Spain)
- *Co-recipient of CEFIPRA/IFCPAR Grant of INR ~1.45 Crore* with Dr Laurie Reisberg (CNRS-CRPG) under the India-France bilateral project, 2019-2023
- *UKIERI-UGC (British Council-MHRD) research project (2013-2016) on 'Sustainable resourcing of platinum-group elements (PGE): Studies to understand and locate PGE in chromitites and breccias in India'* was selected as one of the nine most successfully implemented projects and showcased at the Indo-UK bilateral summit, 2017
- *Recipient of the Ministry of Earth Science (MoES) grant of INR ~ 42 Lacs as a leverage fund to develop a laboratory for research on Ni-Cu-(PGE)-sulfide and Ti-V-Cr*
- *Co-recipient of UKIERI-UGC (British Council-MHRD) Research Grant of GBP ~60,000* with Dr Hazel Prichard (Cardiff University) under the UK-India Education and Research Initiative (UKIERI), 2013-2016
- *Chair* (SK Mondal & WL Griffin), Session 9a, Goldschmidt 2016 Yokohama, *no participation*
- *Chair* (SK Mondal & WL Griffin), Session 12b, Goldschmidt 2015 Prague
- Selected for the 'Full Professor' position in the Institute of Geochemistry of the Chinese Academy of Sciences under the 'Hundred Overseas Talent Program-Type A', Guiyang, China, 2014. Continuing in current position at Jadavpur University
- *Chair* (SK Mondal & WL Griffin), Session 13f, Goldschmidt 2013, Florence (Italy)
- *Chair*, Session 'Ore Deposits', National Seminar, Banaras Hindu University, India, 2012
- The scientific article by Mondal & Mathez 2007, Journal of Petrology 48: 495-510, was listed in the '*Most Read 50 Articles of the Journal of Petrology, 2012-2014*
- *Chair* (WG Maier, SK Mondal, M Fiorentini, T Oberthuer), Session 11b, Goldschmidt 2011, Prague (Czech Republic)
- *Leader*, Ore Deposits work group, IGCP-SIDA-599 on 'The Changing Early Earth', 2011-2014
- Edited Special Issue of 'Applied Earth Science' (Transactions of Mining and Metallurgy, Section B, London) *featured in 'Science Faculty Newsletter' of Copenhagen University (SCIENCENyt - week 15), 2010*
- Selected for the Council for Geoscience, South Africa's Research Scientist at Pretoria. Joined NordCEE, University of Copenhagen, 2007

- Selected for the Physical Research Laboratory (PRL) 'Reader' position under the PLANEX Program, India. Joined NordCEE, University of Copenhagen, 2007
- *Chair* (C Li & SK Mondal), Session '*Magmatic ore deposits elsewhere*', IGCP-479 (UNESCO), Hong Kong University workshop, 2004
- *Chair* (MF Zhou, C Li, SK Mondal, WG Maier, H Prichard), Organising committee, IGCP-479, Hong Kong University Workshop, Short Course and Field Trip 2004
- Qualified Indian Govt. UPSC examination and selected for the Geologists Service. Opted to continue with PhD research with a CSIR Fellowship, 1996
- Qualified National Eligibility Test (NET) of CSIR-UGC; awarded CSIR fellowship for 5 years to conduct research for a PhD and eligibility for lectureship, 1993

#### Research Projects (grant support):

- 2023-2026 (36 months): CSIRO-Mineral Resources Discovery ARC Project under the India-Australia New Policy Proposal (NPP) on Critical Minerals. CSIRO-PI: Dr Erick Ramanaidou (Australia) & India Collaborative Partner: SK Mondal, on '*Exploration of Ni, Cu, Co, Sc, and PGE in the lateritic profiles over the ultramafic-mafic protoliths in the Sukinda Complex, Singhbhum Craton*'.
- 2019-2023 (48 months), SK Mondal - India PI: 'Indo-French Centre for the Promotion of Advanced Research: CEFIPRA project 6007-1 on 'Petrologic, Os isotopic and platinum-group element (PGE) geochemical studies of the Archean komatiites from the Singhbhum Craton (eastern India): Implications for chemical differentiation of the Earth and prospects for Ni-Cu-(PGE) sulfide mineralisation'. France PI Dr Lauri Reisberg, CNRS-CRPG, France; Total budget grant INR ~1.45 Crore; 50% sharing to each PI.
- 2019-2020 (24 months), SK Mondal, PI: MHRD RUSA 2.0 Major Research Project (under the Collective Grant to Jadavpur University) on '*Study of mineral inclusions in chromites of the Archean Nuasahi and Sukinda ultramafic-mafic complexes (eastern India): implications for chromitite genesis and PGE mineralisation*'. Total grant ~10 lakhs and an additional travel fund (~ 1 lakh) to attend Goldschmidt 2019.
- 2018-2019 (24 months), SK Mondal, PI: DST PURSE Phase 2 (under the Promotion of University Research and Scientific Excellence Collective Grant to Jadavpur University). A total grant of approximately ₹ 10 lakhs was allocated to procure an advanced research-grade microscope for the MoES-funded infrastructure laboratory.
- 2014-2017 (30 months), SK Mondal - PI: Ministry of Earth Sciences (MoES), Govt. of India funded project conducted at Jadavpur University on '*Investigation on Ni-Cu sulfide potential of the Deccan Basalt using major, trace and platinum-group element (PGE) geochemistry*'. Total grant: INR ~42 lakhs. This particular project served as leverage funding for the UKIERI project and helped to establish a research laboratory.
- 2013-2016 (36 months), SK Mondal - India PI: UKIERI-UGC (under British Council-MHRD) Research Project conducted with Dr Hazel Prichard (UK PI), Cardiff University under the UK-India Education and Research Initiative (UKIERI) on '*Sustainable resourcing of platinum-group elements (PGE): studies to understand and locate PGE in chromitites and breccias in India*'. Total grant: GBP ~60,000, with 50% shared between each PI.
- 2012-2014 (24 months), SK Mondal - Collaborative Partner: Research project on '*In situ trace element fingerprinting of Archean ultramafic-mafic rocks and related chromite, magnetite, Ni-Cu-sulfide and PGE deposits of the western Dharwar Craton, India*' with Prof Susan Reilly and Prof Bill Griffin that involved a laboratory visit and training of

Mondal's research scholar in the ARC Centre of Core to Crust Fluid System (CCFS), Macquarie University, Australia.

- 2007-2010 (25 months): NordCEE-funded senior postdoc project at the University of Copenhagen, Denmark, on '*Petrogenesis of Archean ultramafic-mafic rocks and related chromite and PGE deposits from the Indian Cratons: Implications for crustal evolution and ore genesis*'. Collaborators: Prof Minik Rosing, Prof Robert Frei, Prof Tod Waight, Prof Mei-Fu Zhou.
- 2005-2006 (12 months): USGS-funded postdoc project at American Museum of Natural History, NYC, USA on '*Investigation on the geochemical evolution of the Stillwater Complex (Montana, USA) from in-situ Pb isotopic study*'. Collaborator: Prof Ed Mathez.
- 2004-2005 (12 months): NSF (USA) funded postdoc project at American Museum of Natural History, NYC, USA on '*Origin of the UG2 chromitite layer, Bushveld Complex, South Africa*'. Collaborator: Prof Ed Mathez.
- 2002-2003 (12 months): DST-BOYSCAST fellowship; research conducted as a visiting scientist at Indiana University, Bloomington, USA, on '*Investigation on the geochemical evolution of the 3.1Ga chromitite and PGE deposits of the Singhbhum Craton, India from stable and Os isotopes and petrologic study*'. Collaborators: Prof Ed Ripley, Dr Chusi Li.
- 1994-1997: CSIR-NET PhD thesis project with CSIR Junior and Senior Research Fellowship conducted at Jadavpur University on '*Study of chromite, sulfide, and noble metal mineralization in the Precambrian Nuasahi ultramafic-mafic complex, Keonjhar district, Orissa, India*'.

#### Ongoing network projects:

- '*Geochemistry of the Deccan gabbroic sills and the alkaline-carbonatite rocks: Implications for Ni-Cu-sulfide, PGE, Ti, V, and Nb-REE mineralisation*'. Collaborators: Prof Anne-Sylvie André-Mayer (GeoRessources, Université de Lorraine, Nancy), Dr Laurie Reisberg (CNRS-CRPG, Nancy). A new India-France CEFIPRA project has been submitted for funding.
- '*Origin of Fe-Ni-sulfides in the 2.8 Ga gabbro-noritic dyke from the Singhbhum Craton, India*'. Dissertation project completed. Manuscript under preparation.
- '*In situ trace element study of magnetite in the Phenai Mata Complex and the Koyna drill hole samples of the Deccan Large Igneous Province: Implications for cooling history of the lava flows*'. Collaborators: Prof Mei-Fu Zhou and Dr Ratul Banerjee, CAS - Institute of Geochemistry, Guiyang, China. Manuscripts under preparation.
- '*Ru-isotopic study of global chromites and implications for the evolution of the Earth's Primordial Mantle*' with Dr Mario Fischer-Gödde, Dr Xiaoyu Zhou, and Prof Carsten Münker, Institut für Geologie und Mineralogie, Universität zu Köln, Germany. Manuscript under preparation.
- '*Investigation on the geochemical evolution of the Late Archean mafic lavas, Singhbhum Craton, India: magmatism within a supra-subduction setting*'. Collaborators: Dr. Mario Fischer-Gödde, Dr. Xiaoyu Zhou, and Prof. Carsten Münker, Institut für Geologie und Mineralogie, Universität zu Köln, Germany. Ongoing dissertation.
- '*In situ trace and platinum group elements geochemistry of chromite, magnetite and base metal sulfides from the Late Archean mafic lavas from the Singhbhum Craton, India*'; Collaborator: Prof Jian-Feng Gao, CAS - Institute of Geochemistry, Guiyang, China. Ongoing dissertation.
- JSPS short-term invitational fellowship project: '*In-situ major and trace element studies of inclusions in the Archean chromites from India*' and '*Origin of chromites in*

*orthopyroxenite from the Mesoarchean ultramafic-mafic complexes (India)'*; Collaborator: Prof Shoji Arai, Kanazawa University, Japan. Manuscripts under preparation.

- '*Origin of sulfide minerals in mantle xenoliths from the west Greenland kimberlites*'. Collaborator – Prof Minik Rosing (University of Copenhagen). Data acquired.

#### Past research projects:

- 2003-2004: Received the India-Government DST-FAST Track Young Scientist Scheme. Opted for a postdoctoral fellowship at the American Museum of Natural History.
- 2003-2004: DST (India)-NSF (USA) International collaborative project with Ed Ripley, Indiana University, short-listed for final oral presentation. Opted for a postdoctoral fellowship at the American Museum of Natural History.
- 1997-2000: Supported in-house and sponsored projects, as in charge of the Applied Mineralogy Lab in Central Glass & Ceramic Research Institute (CSIR-CGCRI), Kolkata.

#### Collaboration:

Prof Anne-Sylvie André-Mayer, GeoRessources, Université de Lorraine, Nancy  
 Dr Laurie Reisberg, CNRS-CRPG, Nancy, France  
 Dr Mario Fischer-Gödde, Universität zu Köln, Germany  
 Dr Xiaoyu Zhou, Universität zu Köln, Germany  
 Prof Mei-Fu Zhou, Institute of Geochemistry, CAS, Guiyang, China  
 Prof Jian-Feng Gao, Institute of Geochemistry, CAS, Guiyang, China  
 Dr Jung-Woo Park, Seoul National University, South Korea  
 Dr M Lingadevaru, Central University of Karnataka, India  
 Dr Erick Ramanaidou, CSIRO Mineral Resources Discovery, Australia  
 Dr Giovanni Spampinato, CSIRO Mineral Resources Business Unit, Australia  
 Dr Yoram Tetley, CSIRO Mineral Resources Discovery, Australia  
 Dr Olivier Alard, Research School of Earth Sciences, Australian National University  
 Dr Hannah Hughes, University of Exeter, UK  
 Prof Minik Rosing, University of Copenhagen, Denmark  
 Prof Denton Ebel, Dept of Earth & Planetary Sciences, AMNH, NYC, USA  
 Emeritus Prof. Shoji Arai, Kanazawa University, Japan  
 Distinguished Prof Sue O'Reilly, Macquarie University, Australia  
 Distinguished Prof Bill Griffin, Macquarie University, Australia

#### Membership:

Fellow & Member, The Society of Economic Geologists (SEG, USA)  
 Fellow & Life Member, The Geological Society of India, Bangalore  
 Member, The American Geophysical Union (AGU, USA)  
 Member, The Geochemical Society (GS, USA)  
 Life Member, The Indian Geophysical Union  
 Life Member, Society of Geoscientists & Allied Technologists (SGAT), India  
 Life Member of MMGI, Mining, Geological & Metallurgical Institute of India  
 Member, The European Association of Geochemistry (EAG) (till 2021)  
 Member, The International Association on the Genesis of Ore Deposits (IAGOD) - till 2018

#### Seminar/symposium/workshop organisation, session convener, and chair:

- *Convener* (PA Sanjuan, C Villanova-De-Benavent, SK Mondal, A Vymazalova, MJ Batista, E Ramanaidou) of Session 5j “*Multi-scale Geochemical Mapping for Mineral Resource Management*”, Goldschmidt 2025, Prague.
- *Coordinator*, One-day workshop on ‘*Exploration of Critical and Strategic Metals – Exploration Targeting and Sustainable Development*’ and led joint fieldwork in the Sukinda belt (Orissa) as a collaborative partner with the Geoscientists of the CSIRO Australia Mineral Resources Discovery Group under the India-Australia New Policy Proposal (NPP) on critical minerals, Dept of Geological Sciences, Jadavpur University, Oct 28, 2024. Speakers: Mr R Deb (TATA Steel Ltd), Prof S Dey (IISER-Kolkata), Prof S Acharya (Indian Association for the Cultivation of Science, Kolkata), Dr E Ramanaidou (CSIRO, Australia), Dr Y Tetley (CSIRO, Australia).
- *Coordinator*, One-day workshop on ‘*Exploration of Critical Minerals and Sustainable Living*’ and led fieldwork as a collaborative partner in the Sukinda and Nuasahi belts (Orissa) with the CSIRO-Australia Mineral Resources Discovery Group under the India-Australia New Policy Proposal (NPP) on critical minerals, Dept of Geological Sciences, Jadavpur University, on Dec 4, 2023. Speakers: Prof SK Ghosh (Jadavpur University), Dr R Banerjee (Jadavpur University), Dr E Das (Jadavpur University), Dr E Ramanaidou (CSIRO, Australia), Dr G Spampinato (CSIRO).
- *Convener and Chair* (Y Wang, W Smith, SK Mondal) of the Session ‘Global PGE deposits’ of the 14<sup>th</sup> International Platinum Symposium, Cardiff University, Wells, UK (07/2-7 2023).
- *Coordinated* the Departmental Webinar Series (07/2021 - 11/2021), Jadavpur University. Speakers: Prof S Dasgupta (INSA Senior Professor, ISI Kolkata), Dr I Vesklar (GFZ, Germany), Prof CT Lee (Rice University, USA), Prof E Cottrell (Smithsonian Institute, USA), Dr H Hughes (University of Exeter, UK), Prof M Fiorentini (University of Western Australia), Dr N Rai (IIT-Roorkee), Dr GR Tripathi (IISER Pune), Prof K Debnath (IIST-Shibpur), Prof AH Ahmed (King Abdulaziz University, Jeddah, Saudi Arabia), Dr M Tang (Chinese Academy of Science), Dr S Halder (HZL, India), Prof M Sen (University of Texas, USA), Prof L Ashwal (University of Witwatersrand, South Africa), Prof H Williams (University of Cambridge, UK), Prof D Paul (IIT-Kanpur).
- *Convener* (SK Mondal & L Reisberg), Session 7b on ‘*Mineral resources related to ultramafic-mafic magmas, from Archean to present*’, Goldschmidt 2021 (4-9 July, Virtual)
- *Coordinator* of Theme 28 (SK Mondal, B Mishra, J Pasava, R Goldfarb, D Lentz) of the IGC-2020 (New Delhi): *Ore-forming processes and systems*. 2020
- *Coordinator*, CEFIPRA workshop under the CEFIPRA Project 6007-1 as the Principal Collaborator (India), Dept of Geological Sciences, Jadavpur University, on Dec 3, 2019 (Speakers: Dr L Reisberg of CNRS-CRPG, Prof N Mandal, Prof P Sengupta, Prof DC Pal (Jadavpur University, India).
- *Convener* (JM Gonzalez-Jimenez, K Smit, S Timmerman, SK Mondal, S Aulbach, A Giuliani), Special Session 03i on ‘*Origin and Evolution of Continental Mantle Lithosphere and its Resource Endowment*’, Goldschmidt 2019 (18-23 August), Barcelona.
- *Coordinator* (SK Mondal & DC Pal, Jadavpur University), 3-week ‘UGC-Refresher Course’ for university faculties on ‘*Modern Methods in Earth System Science*’ under the HRDC & Dept of Geological Sciences, Jadavpur University, Kolkata, India (18 Sept - 11 Oct 2018).
- *Convener* (SK Mondal & Bill Griffin), Special Session 9a on ‘*Sustainable Resourcing of Ore Deposits Related to Ultramafic-Mafic Magmas*’, Goldschmidt 2016, Yokohama.

- *Convener* (SK Mondal & Bill Griffin), Special Session 12b on '*Processes and Deposits of Ultramafic-Mafic Magmas through Space and Time*', Goldschmidt 2015, Prague.
- *Convener* (SK Mondal & Bill Griffin), Special session 13f of Goldschmidt 2013, Florence, on '*Crust-Mantle Evolution and Changing Patterns of Ore Deposits in the Early Earth*'.
- *Coordinator*, one-day workshop on '*Chromite and PGE Ore Deposits*' under the UKIERI-UGC project between SK Mondal (India PI) & H Prichard (UK PI), Mysore University, India, 8<sup>th</sup> Nov 2013.
- *Convener and organiser* (SK Mondal, R.H. Sawkar, R.N. Patra), International workshop (short course, fieldwork, seminars) on '*Magmatic Ore Deposits*', 1-8 Dec 2012, Bangalore, India.
- *Convener* (WG Maier, SK Mondal, M Fiorentini, T Oberthuer), Special session 11b of Goldschmidt 2011, Prague on '*Ore Deposits and the Role of the Lithospheric Mantle*'.
- *Convener* (SK Mondal, R.H. Sawkar) and Resource Person, a training course on '*Recent advances on chromite, PGE and Ni-Cu sulfide deposits in the context of ultramafic-mafic rocks of the Dharwar Craton, India*'. 5-6 June and 18-31 Oct 2010, Bangalore, India.
- *Member*, Advisory Committee, International Symposium and Short Course on '*Magmatic Ore Deposit*' (ISMO-2009), Bhubaneswar, India; 1-4 Dec 2009.
- *Coordinator* for 2 semesters (2004 Fall-2005 Spring), '*Tuesday Seminar Series*', Department of Earth and Planetary Sciences, American Museum of Natural History.
- *Member*, organising committee, '*DST Sponsored-Contact Program for School Children*', Jadavpur University, India. 2003

Special volume edited, reference book & editorial board:

- Editor (SK Mondal, L Reisberg, J González-Jiménez, H Hughes), Special Vol 552, *Geological Society, London*, on '*Mineral resources related to ultramafic-mafic magmas, from Archean to present: old deposits and new prospects of chromite, Ti-V-magnetite, and Ni-Cu-(PGE) sulfides*', 2026.
- Member, Editorial Board, '*Scientific Report*', nature Publishing Group, 2025-present
- Member, Editorial and Advisory Editorial Board, Society of Geoscientists and Allied Technologists (SGAT), 2025-2027
- Review Editor, Mineral Geochemistry, *Frontiers in Geochemistry*, 2023-present
- Associate Editor, *Journal of Asian Earth Sciences* (Elsevier), 2020-present
- Associate Editor, Editorial Board, *Ore Geology Reviews* (Elsevier), 2018-present
- Member, Editorial Board, *Journal of Geological Society of India* (Springer), 2008-2018.
- Guest Editor (J González-Jiménez, A Giuliani, SK Mondal, S Timmerman, K Smit, S Aulbach), Special Issue, *LITHOS* (Elsevier) on '*Origin and Evolution of Continental Mantle Lithosphere and its Resource Endowment*'. 2020
- Editor (SK Mondal & Bill Griffin), '*Elsevier Book*, 10 chapters, 384 pages' on '*Processes and Deposits of Ultramafic-Mafic Magmas through Space and Time*', Elsevier, ISBN: 978-0-12811159-8, 2017.
- Guest Editor (SK Mondal & R Mukherjee), Special Issue, *Ore Geology Reviews* (Elsevier) on '*Chromite: Petrogenetic Indicator to Ore Deposits*', 2017.
- Guest Editor (SK Mondal, Bill Griffin, WG Maier), Special Issue, *LITHOS* (Elsevier) on '*Ore Deposits and the Role of the Lithospheric Mantle*'. Vol 164-167, 2013.
- Editor (SK Mondal), Abstract volume on '*Recent Developments in the Chromite-Platinum Group Elements and Ni-Cu-sulfides, Ti and V ore fields*' under the '*International Workshop on Magmatic Ore Deposits, Dec 1-8, 2012 (Bangalore)*'; published by the Geological Society of India.

- Guest Editor (SK Mondal & I McDonald), Special Issue, 'Advances in the understanding of chromitite deposits', *Applied Earth Science: IMM Transactions Section B*, Vol. 118, Nos 3-4, Dec 2009. Institute of Materials, Minerals and Mining (London).
- Guest Editor (SK Mondal), Special Issue, *Journal of Geological Society of India* on 'Orthomagmatic ore deposits related to ultramafic-mafic rocks', V.72, No.5, Nov 2008.

Solicited journal, project, and award nomination reviews:

- PNAS, Geology, Journal of Petrology, Geochimica et Cosmochimica Acta, Contributions to Mineralogy and Petrology, GSA-Geology, GSA-Today, Precambrian Research, Chemical Geology, American Mineralogist, Lithos, Canadian Mineralogist, Mineralium Deposita, Economic Geology, Ore Geology Reviews, Applied Earth Science: IMM Transactions Section B, Journal of Geological Society (London), Journal of Earth System Science, Journal of Geological Society India
- Review research project, Ministry of Earth Sciences (MoES)
- Review research project, Goa State Research Foundation (GSRF)
- Review research project, South African National Research Foundation
- Evaluate the nominations for the MoES Geoscience National Awards
- Evaluate the nominations for the Petrology Award, Geological Society of India

Invited talk, keynote, and webinar:

- Geological Survey of India Southern Region, Hyderabad, Workshop on 'Recent Advances in Fundamentals of Geosciences', 22.08.2025.
- Keynote, GEOSYNTH 2025, Annual Research Scholars' Day, Dept of Earth Sciences, IIT Roorkee, 05.06.2025
- Presidency University Prof AK Saha Memorial Conference 2025, Kolkata, 21.03.2025
- Australian Consulate, Kolkata, during a meeting with the Australian Deputy High Commissioner of India & the Consul General in Kolkata, 13.10.2023
- Dept of Earth Science, Manipur Central University, India, 20.09.2022
- DST-STUTI Workshop, Dept of Geological Sciences, Jadavpur University, India, 14.07.2022
- Webinar, Geological Survey of Finland (GTK), Finland, 29.06.2022
- **'PN Bose Memorial Lecture' on 167<sup>th</sup> Birth Anniversary of Shri PN Bose**, TATA Ltd, Jamshedpur, 12.05.2022
- Webinar, School of Geosciences, University of the Witwatersrand, Johannesburg, 10.05.2022
- Webinar, Ore Deposits Hub: Deep Dive Seminar, Sponsored by SEG, SGA & IAGOD, 20.04.2022; Available on YouTube.
- Webinar, Australian National University Research School of Earth Sciences, 13.08.2022
- Department of Studies in Earth Science, Mysore University, India, 25.09.2019
- 15<sup>th</sup> Meeting of CGPB Committee-I, Geological Survey of India (Eastern Region), 26.08.2019
- Metallurgical and Material Engineering Department, Jadavpur University, India, 11.11.2016
- Institute of Geochemistry, Chinese Academy of Sciences, Guiyang, 05.04.2014
- National Seminar at the Banaras Hindu University, India, 23.02.2012
- AMD-BRNS (BARC, DAE), Bangalore, India, 22.10.2011

- Annual General Meeting, Geological Society of India, Banaras Hindu University, 23.09.2011
- Special session 10e of the Goldschmidt Conference, Davos, Switzerland, 26.06.2009
- Monthly meeting of the GEUS, GEOCENTER Copenhagen, Denmark, 02.04.2009
- NordCEE Annual Field Conference, Brosarp, Sweden, 30.05.2008
- Dept of Applied Geology, Kuvempu University, Karnataka, India, 27.10.2007
- Keynote, National Geophysical Research Institute (NGRI), Hyderabad, 20.07.2007
- Geological Society of India Monthly Meeting, Bangalore, India, 30.05.2007
- Physical Research Laboratory, Ahmadabad, India, 13.03.2007
- Dept of Earth and Planetary Sciences, American Museum of Natural History, 06.06.2006

International conference attendance and talk:

- Goldschmidt Conference 2021, Virtual
- Goldschmidt Conference 2019, Barcelona, Spain
- Goldschmidt Conference 2015, Prague, Czech Republic (two talks)
- Goldschmidt Conference 2013, Florence, Italy
- Goldschmidt Conference 2011, Prague, Czech Republic
- Goldschmidt Conference 2009, Davos, Switzerland (invited talk)
- Goldschmidt Conference 2007, University of Cologne, Germany
- IGCP-479 Hong Kong University Workshop and Field Conference 2004, Hong Kong
- Geological Society of America (GSA) Annual Meeting 2002, Denver, USA
- International Pt-Symposium 2002, Billings, Montana, USA

International conference attendance and poster (as presenting and lead author):

- Goldschmidt Conference 2019, Barcelona, Spain (2 posters, co-presenter)
- Goldschmidt Conference 2009, Davos, Switzerland (co-presenter)
- AGU Fall Conference 2008, San Francisco, USA
- Goldschmidt Conference 2005, University of Idaho, USA
- Annual Conference of GAC-MAC-SEG 2003, Vancouver, British Columbia, Canada

Training offered as a Resource Person:

- Lectures (3 hrs) in Refresher Course on '*Petrogenesis of alkaline, ultramafic and ultrapotassic rocks and their associated mineralisation*', Geological Survey of India Training Institute, Hyderabad, 20 July 2026, Virtual.
- Lectures (3 hrs) in Refresher Course (Igneous Petrology), on '*Petrography and Geochemistry of ultramafic-mafic rocks with special emphasis on PGE mineralisation*', Geological Survey of India (Eastern Region) Training Centre, Kolkata, August 2025
- Lectures (3 hrs) in Refresher Course (Igneous Petrology), on '*Petrography and Geochemistry of ultramafic-mafic rocks with special emphasis on PGE mineralisation*', Geological Survey of India (Eastern Region) Training Centre, Kolkata, Jan 2025
- Lectures (3 hrs) on '*Petrology and Geochemistry of ore deposits (PGE, Ni, Cu, Co, Cr, Ti, V) related to ultramafic-mafic rocks*', Geological Survey of India (Eastern Region) Training Centre, Kolkata, Jan 2024
- Lectures (4 hrs) and 1-day field training for geologists (18 participants) of the Orissa Mining Corporation (OMC) at the Geological Survey of India training camp, Jajpur-Keonjhar Road and Nuasahi ultramafic-mafic complex, Orissa, India (5-6 Nov 2018).

- Lectures and field training for participants (35) in the Geological Society of India NSB-IIA training course, 18-31 Oct 2010, Nuggihalli Greenstone belt, Karnataka.
- Laboratory training to the engineers of Saint-Gobain Glass India Ltd., Refractories Division, Central Glass & Ceramic Research Institute (CSIR-CGCRI), Kolkata, 1999.
- Laboratory training to the engineer of Samcor Glass Ltd (India), Refractories Division, Central Glass & Ceramic Research Institute (CSIR-CGCRI), Kolkata, 1998.

#### Past & present students:

Total Research Scholars Supervised: 11

*PhD awarded: 5*

- Dr Sarifa Khatun, Assistant Professor, Presidency University, Kolkata, India
- Dr Ria Mukherjee, Lecturer, University of New England, Australia
- Dr Rupam Ghosh, Postdoc, The University of Tokyo, Japan
- Dr Chirasree Bhattacharjee, Geologist, GeoRocks Consulting, Kolkata
- Dr Ratul Banerjee, Postdoc, Institute of Geochemistry, CAS, Guiyang

*Research Scholars conducted research with NET Fellowship and joined the job: 6*

Arnab Dey, Damayanti Choudhuri, Arindam Sarkar, SP Bank, Subhojit Roy, Avishek Adhikari

*Postdoc: Dr Aindrila Mukherjee - in situ trace element geochemistry of magnetite for Ni-Cu-PGE-Nb-REE exploration (2025-2026)*

*MSc dissertations supervised: 35; Ongoing: 3; A student joined Caltech in 2024 for a PhD, and another joined the University of Adelaide in 2026 for a PhD*

*Internship and undergraduate research trainee: 18*

#### Collaboration with PhD students and Postdocs from abroad and India:

- Dr Xiaoyu Zhou, Postdoc with Dr Mario Fischer-Gödde, Universität zu Köln, Germany (Ru isotope study of the Indian chromites and ultramafic-mafic volcanic rocks). ongoing
- Dr Cora Paulukat, PhD student of Prof Robert Frei, Copenhagen University, (Hexavalent Cr Project on the Sukinda Complex) - completed
- Dr Lasse N. Døssing, NordCEE Postdoc, Copenhagen University, (Hexavalent Cr Project on the Sukinda Complex) - completed
- Dr Alik Majumder, PhD student of Prof Andrew Putnis, University of Münster, Germany (Petrology of Nuasahi dunite and harzburgite) - completed
- Shubhankar Barman, PhD student of Dr Anuja Datta, Indian Association for the Cultivation of Science (Structural and Magnetic properties of Magnetite in the PGE-rich Magnetitites from Mesoarchean Nuasahi Igneous Complex (Orissa, India) - completed

#### Teaching:

- Ore Geology (with laboratory component)
- Igneous Petrology (with laboratory component)
- Mineralogy (oxide and sulfide mineralogy)
- Introduction to Earth System Science
- Geochemical Exploration
- Rocks & Minerals (Science Faculty)
- Introduction to Geology (Engineering Faculty)

#### Services:

- Judge, Poster Session, Annual Research Scholars' Day, IIT-Roorkee
- Judge, Poster Session, Presidency University, Prof AK Saha Memorial Conference 2025
- Member of the Postgraduate Examination Moderation Committee (Geology), Presidency University, Kolkata, India, 2024
- MSc Final Year Dissertation Viva-Voce Examiner (20 students), IIT-Kharagpur, 2024
- PhD Thesis Viva-Voce External Expert, Banaras Hindu University, Banaras, 2023
- MSc Dissertation Viva-Voce Examiner (20 students), IIT-Kharagpur, 2023
- Member of the Postgraduate Examination Moderation Committee (Geology), Presidency University, Kolkata, 2022
- MSc Final Year External Examiner (Igneous & Metamorphic Petrology), Manipur Central University, 2022
- PhD Thesis Viva-Voce External Expert, Manipur Central University, India, 2022
- MSc Dissertation Viva-Voce Examiner for 24 candidates, IIT-Kharagpur, India, 2022
- Served as an external examiner for a PhD candidate's promotional evaluation, Dept of Geology and Geophysics, Indian Institute of Technology, Kharagpur, India, 2019
- Evaluated and conducted the Seminar Presentation by the participants of the 74<sup>th</sup> orientation training program for the teachers of universities and colleges organised by the UGC-HRDC-JU, 12<sup>th</sup> August 2019, Jadavpur University
- Member of the CSIR-UGC-NET Examination Board, 2011
- Served as referee for faculty appointment at the rank of Assistant Professor in the Dept of Earth Sciences, IIT-Roorkee, India (2009), IIT-Bhubaneswar, India (2015), IISER-Kolkata (2013, 2015), and IISER-Bhopal (2017)
- Served as referee for faculty appointment, Univ. of the West Indies, 2007
- Served as an external examiner for a PhD candidate's promotional evaluation, Dept of Geology and Geophysics, IIT-Kharagpur, 2007

#### Academic and other committees:

Examination Committee (ongoing), Doctoral Committee - past member

CBCS Syllabus Committee (Geology) – past member

NEP Syllabus Committee (Geology) – past member

Faculty of Science Admission Committee – past member

Convocation Ceremony Committee - past member

Committee for the development of the University's New Website

Jadavpur University Security Assessment Committee

Internal Inspector of the CSIR-CGCRI ISO & NABL Committee (1998-1999)

#### Prior professional experiences as an Indian Government CSIR Scientist:

Served as an Indian Government CSIR-Scientist in the Refractories Division of Central Glass & Ceramic Research Institute of CSIR-India at Kolkata for the period 9/1997-3/2000.

- Research work considering geological samples and providing services to the refractory and ceramic research
- In charge: Applied Mineralogy Lab
- Conducted training programs on 'identification of stone and defects in glass' and 'petrographic studies of refractory and ceramic raw materials' for experts from the glass and ceramic industries and students.
- Served as Co-In-Charge of examination centres, CSIR-UGC NET examination, Kolkata, 1997-1999.

#### Activities related to curating in the museum:

- As a postdoc with Prof Ed Mathez at the AMNH, I conducted fieldwork in the Eastern Bushveld Complex, South Africa in 2004 (NSF UG2 chromitite project) and collected ~500 kg of rock samples from two drill cores (DT 28, PK 231) that cutting across the UG2 chromitite layer, the largest PGE deposit in the world, and another one from the Lower Critical Zone (TW-477). These drill core samples, described and documented by me, are preserved systematically at the AMNH and comprise an important part of the Museum's petrology collection.
- Worked as a postdoc with Prof Ed Mathez on his Stillwater project funded by the USGS (2005-2006) and collaborated on a Pb isotope study of rocks from the Stillwater Complex designed to provide insight into the origin of its sulfide and PGE ores. For this particular project, I have described and sampled three drill cores (355-16, 355-32, and 791-1). These cores are part of the American Museum of Natural History's collections. I have conducted petrographic studies on selected sections of the drill cores and, together with Prof Mathez, acquired Pb data from Oregon State University using LA-ICPMS.

#### Fieldwork outside India:

- Bushveld Complex, South Africa, 2004
- Emeishan Large Igneous Province and Panzhihua Complex, China, 2004
- Alum Shale, Sweden, 2008

#### Travel grants and sponsorships received:

- 2025 - Travel grant and sponsorship from the GSI, Southern Region, and delivered an invited talk in the workshop.
- 2025 - Travel grant and sponsorship from the DES, IIT Roorkee, India, and delivered a keynote at GEOSYNTH 2025, Annual Research Scholars' Day.
- 2022 - Travel grant and sponsorship from TATA Steel Ltd, Jamshedpur, India, and delivered the 'PN Bose Memorial Lecture'.
- 2022 - Travel grant and sponsorship from the Department of Earth Science, Manipur Central University, India, and presented an invited talk.
- 2019 - Travel grant from the MHRD RUSA 2.0 fund of Jadavpur University, and attended the Goldschmidt Conference, Barcelona.
- 2018 - Travel grant and sponsorship from the Geological Survey of India, conducted field training, and delivered lectures in the GSI training camp at JK Road, Orissa.
- 2015 - Travel grant and sponsorship from the UKIERI fund at Cardiff University, UK, and attended the Goldschmidt Conference, Prague.
- 2014 - Travel grant and sponsorship for a short visit from the Institute of Geochemistry, Chinese Academy of Sciences, Guiyang. Presented an invited talk.
- 2013 - Travel grant from the Geochemical Society and INSA New Delhi, and attended the Goldschmidt Conference, Florence.
- 2012 - Travel grant and sponsorship from the organiser of the National Seminar at the Banaras Hindu University, India, and presented an invited talk.
- 2011 - Travel grant from the DST, New Delhi, and the Geochemical Society, and attended the Goldschmidt Conference, Prague.
- 2011 - Travel grant and sponsorship from the AMD-BRNS (BARC, DAE), Bangalore, India, and presented an invited talk.

- 2011 - Travel grant and sponsorship, Banaras Hindu University, India, and attended the Annual General Meeting of the Geological Society of India & presented an invited talk.
- 2010 - Travel grant and sponsorship, Geological Society of India, Bangalore, and conducted a field workshop in the Nuggihalli chromite deposits, Karnataka.
- 2009 - Travel grant and sponsorship from the NordCEE, University of Copenhagen, and attended the Goldschmidt Conference 2009, Davos.
- 2008 - Travel grant and sponsorship from the NordCEE, University of Copenhagen, and attended the AGU Fall Meeting 2008, San Francisco.
- 2007 - Travel grant and sponsorship, and delivered a keynote at the PGE conference organised by the National Geophysical Research Institute (NGRI), Hyderabad
- 2007 - Travel grant and sponsorship from the Geological Society of India, Bangalore, and delivered an invited talk at the monthly meeting.
- 2007 - Travel grant and sponsorship from the University of Copenhagen, and visited NordCEE Copenhagen, University of Copenhagen.
- 2007 - Travel grant from the IGCP-479 and Geochemical Society, and attended the Goldschmidt Conference, Universität zu Köln.
- 2007 - Travel grant and sponsorship from Physical Research Laboratory (PRL), Ahmedabad, and presented an invited talk.
- 2006 - Travel grant and sponsorship from the USGS Stillwater project, AMNH, and visited Oregon State University for LA-ICPMS analysis.
- 2005 - Travel grant and sponsorship from the NSF Bushveld UG2 chromitite project, AMNH, and attended the Goldschmidt Conference, Idaho.
- 2004 - Travel and fieldwork support from the NSF Bushveld UG2 chromitite project, AMNH, and conducted fieldwork in the Eastern Bushveld Complex, South Africa.
- 2004 - Travel grant from the IGCP project 479 and attended the Hong Kong University IGCP-479 workshop. Fieldwork support from the project grant of Prof Mei-Fu Zhou, and visited Emeishan Flood Basalt Province and Panzhihua Ti-magnetite deposits, China.
- 2003 - Faculty grant and NSF fund, Indiana University, Bloomington, and IGCP 479 grant, and attended GAC-MAC-SEG Conference, Vancouver.
- 2002 - Faculty grant and NSF fund, Indiana University, attended GSA Meeting, Denver.
- 2002 - Faculty grant and NSF fund, Indiana University, Bloomington, and attended International Pt-Symposium, Billings, Montana.

## LIST OF PUBLICATIONS: PROF SISIR KANTI MONDAL

Total Google Scholar Citations: **1967**      h-index: **22**      i10-index: **34**

ORCID ID: <https://orcid.org/0000-0003-1354-6937>

Publications: Articles **57**, Conference Abstracts **62**

Books Edited: **2**; Special Issues of Journals Edited: **6**; Other (news, reminiscences): **13**

### a. **Research Papers Published - Peer-reviewed articles**

\*Corresponding author, #student supervision

01. Mukherjee, A., **Mondal, S.K.** (2026): In situ trace element geochemistry of magnetite in critical mineral exploration – a review. **Geological Society of India Critical Mineral Special Volume**, *in press*.
02. #Banerjee, R., \***Mondal, S.K.**, Zhou, X., Reisberg, L. (2026): Petrogenesis of 3.5Ga komatiites from the Gorumahisani Greenstone belt, India: Implications for probable geodynamic setting and crustal evolution of the Singhbhum Craton. **Precambrian Research**. *In revision*
03. #Dutta, S., \***Mondal, S.K.** (2026): Distinct stable isotope fingerprints of remobilization of Ni-Cu-PGE sulfides during melt-fluid-rock interactions in the Mesoarchean ultramafic-mafic rocks. **Applied Geochemistry**. <https://doi.org/10.1016/j.apgeochem.2026.107019>
04. Baumgartner, R.J., Lampinen, H.M., Teitler, Y., Iglesias-Martinez, M., Ramanaidou, E., Godel, B., Laukamp, C., Nasreen, A., **Mondal, S.K.**, Powell, H. (2026): Mineral to Satellite Scale Calibrated VNIR Detection of Cr-bearing Goethite and Hematite in Lateritic Terrains: Insights from the Sukinda Ultramafic Complex, India. **Journal of Geochemical Exploration**, Vol 283, April 2026, 107970, <https://doi.org/10.1016/j.gexplo.2025.107970>
05. Khatun, S., **Mondal, S.K.** (2026): Modification of high-Mg and high-Cr chromite within the Katpal breccia zone of the Mesoarchean Sukinda Complex (India): Implications for PGE-Ni-Cu-mineralization. 'Mineral Resources Special Volume 552' of the **Geological Society, London**. <https://doi.org/10.1144/gslspecpub2024-101>
06. #Banerjee, R., \***Mondal, S.K.** (2025): Origin of Ni-Cu (Co) sulfides in the 3.5 Ga komatiites from the Gorumahisani greenstone belt, Singhbhum Craton (eastern India). **Journal of Earth System Science**. <https://doi.org/10.1007/s12040-025-02686-z>
07. #Bhattacharjee, C., \***Mondal, S.K.** (2025): Origin of Fe-Ti oxides in gabbro-magnetitites of the Mesoarchean Nuasahi Complex (India). 'Mineral Resources Special Volume 552' of the **Geological Society, London**. <https://doi.org/10.1144/gslspecpub2024-86>. Available online September 5.
08. #Bhattacharjee, C., \***Mondal, S.K.**, Reisberg, L. (2025): Major and trace element geochemistry and 3.0 Ga Sm-Nd age for the gabbro-norite-anorthosite cumulates of the Mayurbhanj Complex (eastern India): Petrogenesis of the mafic igneous complex and implications for sulfide and Fe-Ti oxide mineralisation. 'Mineral Resources Special Volume 552' of the **Geological Society, London**. Available online 28 Feb 2025. <https://www.lyellcollection.org/doi/abs/10.1144/SP552-2024-82>
09. Zhou, X., #Banerjee, R., Reisberg, L., **Mondal, S.K.** (2025): Source composition or melting effect: New evidence from Archean komatiites concerning the origin of low highly siderophile element abundances in Earth's mantle. **Geochimica et Cosmochimica Acta** 390 211–231. <https://doi.org/10.1016/j.gca.2024.12.004>

10. #Banerjee, R., \***Mondal S.K.** (2024): Platinum-Group Elements (PGE) and Nb-Ta geochemistry of the Deccan basalts from Kumbharli Ghat section and the KBH-7 borehole of the Koyna Seismic Zone, Maharashtra (India). 'Mineral Resources Special Vol 552' of the **Geological Society, London**. <https://doi.org/10.1144/SP552-2023-100>
11. #Vishnu, K., Mukherjee, R., #Rose, R., **Mondal, S.K.**, Lingadevaru, M. (2024). Major, trace, and platinum-group element geochemistry of Mesoarchean komatiites from the Banasandra greenstone belt, Western Dharwar craton (southern India): Implications for multi-stage plume magmatism in generating compositionally diverse komatiites. **International Geology Review**, 1-23. <https://doi.org/10.1080/00206814.2024.2341433>
12. #Banerjee, R., #Biswas, B.K., **Mondal, S.K.** (2023): Origin of alteration patterns in accessory chromites of ultramafic rocks from Kudada area, East Singhbhum district (Jharkhand, India). **Journal of the Geological Society of India**, 99:345-356. <https://doi.org/10.1007/s12594-023-2317-x>
13. #Banerjee, R., \***Mondal S.K.**, Reisberg, L., Park, J.W. (2022): Fractionation of trace and platinum-group elements during metamorphism of komatiitic chromites from the early Archean Gorumahishani greenstone belt, Singhbhum Craton (eastern India). **Contributions to Mineralogy and Petrology**, 08/2022, 177:75. <https://doi.org/10.1007/s00410-022-01943-4>
14. #Dey, A. \***Mondal, S.K.** (2022): Origin of Fe-Ni-sulfide and oxide minerals in the 1.77Ga mafic dyke, Singhbhum Craton (India). **Geological Society, London, Special Publications**, Vol 518, 553-574. <https://doi.org/10.1144/SP518-2021-4>
15. #Rose, R., Mukherjee, R., Frei, R., **Mondal, S.K.**, Lingadevaru, M. (2022): Petrogenesis of the Late Archean Pillow Basalts from the Chitradurga Greenstone Belt, Western Dharwar Craton (southern India). **Journal of Earth System Science** (Springer), 2022/4, 131: 95. <https://doi.org/10.1007/s12040-022-01818-z>
16. #Bhattacharjee, C., \***Mondal, S.K.** (2021): Major and trace element geochemistry of Fe-Ti oxide and sulfide minerals in the Archean Mayurbhanj mafic igneous complex, Singhbhum Craton (India): thermometry and oxygen fugacity of re-equilibration, and implications for ore mineralization. **Ore Geology Reviews**, 131, 104005. <https://doi.org/10.1016/j.oregeorev.2021.104005>
17. #Datta, P., Mukherjee, R., **Mondal, S.K.**, Lingadevaru, M. (2021): Origin of sulfide-bearing late Archean komatiitic suite of rocks in the Shankaraghatta ultramafic-mafic belt, Western Dharwar Craton (India). **Ore Geology Reviews**. Available online 30 July 2021, 104375. <https://doi.org/10.1016/j.oregeorev.2021.104375>
18. González Jiménez. J-M., **Mondal, S.K.**, Ghosh, B., Griffin, W. L., O'Reilly, S.Y. (2020): In situ Re-Os isotope systematics of chromitites and host lherzolites of the Andaman ophiolite, India. **Minerals**, Issue 8, Vol. 10. <https://www.mdpi.com/2075-163X/10/8/686>.
19. #Banerjee, R., \***Mondal, S.K.** (2021): Bulk-rock major and trace element geochemistry of the Deccan basalts from the KBH-7 borehole, Koyna Seismic Zone (Western Ghats, India): assimilation and fractional crystallization, nature of crustal contamination and sulfide saturation of magma. **Lithos**, 105864. <https://doi.org/10.1016/j.lithos.2020.105864>
20. #Datta, P., \***Mondal, S.K.** (2021): Compositional variations, thermometry and possible parental magmas of Archean chromites from the Sargur schist belt, Western Dharwar Craton (Southern India). **Lithos**, 105867. <https://doi.org/10.1016/j.lithos.2020.105867>
21. Srivastava, R.K., Söderlund, U., Ernst, R.E., **Mondal, S.K.**, Samal, A.K. (2019): Precambrian mafic dyke swarms in the Singhbhum craton (eastern India) and their links with dyke swarms of the eastern Dharwar craton (southern India) – Reply. **Precambrian Research** 329: 23-25. <https://doi.org/10.1016/j.precamres.2018.12.016>

22. Srivastava, R.K., Söderlund, U., Ernst, R.E., **Mondal, S.K.**, Samal, A.K. (2019): Precambrian mafic dyke swarms in the Singhbhum craton (eastern India) and their links with dyke swarms of the eastern Dharwar craton (southern India). **Precambrian Research** 329: 5-17. <https://doi.org/10.1016/j.precamres.2018.08.001>
23. **\*Mondal, S.K.**, #Khatun, S., Prichard, H.M., Satyanarayanan, M., Ravindra Kumar, G.R. (2019): Platinum-group element geochemistry of boninite-derived Mesoarchean chromitites and ultramafic-mafic cumulate rocks from the Sukinda Massif (Orissa, India). **Ore Geology Reviews** 104, 722-744. First online 30 Nov 2018. <https://doi.org/10.1016/j.oregeorev.2018.11.027>
24. Prichard, H.M., **\*Mondal, S.K.**, Mukherjee, R., Fisher, P.C., Giles, N. (2018): Geochemistry and mineralogy of the Pd in the magnetite layer within the upper gabbro of the Mesoarchean Nuasahi Massif, (Orissa, India). **Mineralium Deposita** 53:547–564. First online 20 July 2017. <https://doi.org/10.1007/s00126-017-0754-4>
25. #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. <https://doi.org/10.1016/j.lithos.2016.04.016>
26. #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 of fluid composition at the mineral-fluid interface. **Journal of Petrology** 57, 3-26. <https://doi.org/10.1093/petrology/egv070>
27. #Paulukat, C., Døssing, L.N., **Mondal, S.K.**, Voegelin, A.R., Frei, R. (2015): Oxidative release of chromium from Archean ultramafic rocks, its transport, and environmental impact - a Cr isotope perspective on the Sukinda Valley ore district (Orissa, India). **Applied Geochemistry** 59, 125-138. <https://doi.org/10.1016/j.apgeochem.2015.04.016>
28. #Mukherjee, R., **Mondal, S.K.**, González-Jiménez, J.M., Griffin, W.L., Pearson, N.J., O'Reilly, S.Y. (2015): Trace-element fingerprints of chromite, magnetite, and sulfides from the 3.1Ga ultramafic-mafic rocks of the Nuggihalli greenstone belt, Western Dharwar craton (India). **Contributions to Mineralogy and Petrology**, 169 (59). <https://doi.org/10.1007/s00410-015-1148-1>
29. #Mukherjee, R., **Mondal, S.K.**, Zhong, H., Bai, Z-J., Balaram, V., Ravindra Kumar, G.R. (2014): Platinum-group element geochemistry of komatiite-derived 3.1Ga ultramafic-mafic rocks and chromitites from the Nuggihalli greenstone belt, Western Dharwar craton (India). **Chemical Geology** 386: 190-208. <https://doi.org/10.1016/j.chemgeo.2014.08.007>
30. #Khatun, S., **\*Mondal, S.K.**, Zhou, M.F., Balaram, V., Prichard, H.M. (2014): Platinum-group element (PGE) geochemistry of Mesoarchean ultramafic-mafic cumulate rocks and chromitites from the Nuasahi Massif, Singhbhum Craton (India). **Lithos** 205: 322–340. <https://doi.org/10.1016/j.lithos.2014.07.013>
31. #Mukherjee, R., **\*Mondal, S.K.**, Frei, R., Rosing, M.T., Waight, T.D., Zhong, H., Ravindra Kumar, G.R. (2012). The 3.1 Ga Nuggihalli chromite deposits, Western Dharwar craton (India): geochemical and isotopic constraints on mantle sources, crustal evolution and implications for supercontinent formation and ore mineralization. **Lithos** 155: 392-409. <https://doi.org/10.1016/j.lithos.2012.10.001>
32. **Mondal, S.K.** (2011): Platinum-group element (PGE) geochemistry to understand the chemical evolution of the Earth's mantle. **Journal of Geological Society of India** 77: 295-302.

33. #Mukherjee, R., \***Mondal, S.K.**, Rosing, M.T., Frei, R. (2010): Compositional variations in the Mesoarchean chromites of the Nuggihalli schist belt, Western Dharwar craton (India): potential parental melts and implications for tectonic setting. **Contributions to Mineralogy and Petrology** 160: 865-885. <https://doi.org/10.1007/s00410-010-0511-5>
34. \***Mondal, S.K.**, Zhou, M.-F. (2010): Enrichment of PGE through the interaction of evolved boninitic magmas with early-formed cumulates in a gabbro-breccia zone of the Mesoarchean Nuasahi massif (eastern India). **Mineralium Deposita** 45: 69-91. <https://doi.org/10.1007/s00126-009-0264-0>
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**c. Chapters/Preface/Introduction contributed to Books/Special Issues/Volumes**

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52. **\*Mondal, S.K.,** Griffin, W. (2018): Processes and ore deposits of ultramafic-mafic magmas through space and time. Introduction chapter in 'Processes and ore deposits of ultramafic-mafic magmas through space and time' (editors: **Mondal, S.K.** and Griffin, W.), **Elsevier Book** ISBN: 978-0-12-811159-8. <https://doi.org/10.1016/B978-0-12-811159-8.00029-9>
53. Mukherjee, R., **\*Mondal, S.K.** (2018): Petrogenetic evolution of the chromite deposits in the Archean greenstone belts. Book Chapter In 'Processes and ore deposits of ultramafic-mafic magmas through space and time' (Editors: **Mondal, S.K.** and Griffin, W.), Book Chapter 6. **Elsevier Book** ISBN: 978-0-12-811159-8. Pages 159-195  
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57. **Mondal, S.K.** (2008): Orthomagmatic ore deposits related to ultramafic-mafic rocks: An Introduction. Introduction of the Special Issue of the **Journal of the Geological Society of India** 72: 591-593. Edited by **Mondal, S.K.**

**d. Book edited**

01. \***Mondal, S.K.**, Reisberg, L., González-Jiménez, J.M., Hughes, H. (2026): Edited '**Special Volume 552**' of the **Geological Society (London)** on 'Mineral resources related to ultramafic-mafic magmas, from Archean to present: old deposits and new prospects of chromite, Ti-V-magnetite, and Ni-Cu-(PGE) sulfides'. 11 Chapters.
02. \***Mondal, S.K.** and Griffin, W. (2017): Edited '**Elsevier Book**, 10 Chapters, 384 pages' on 'Processes and Ore Deposits of Ultramafic-Mafic Magmas through Space and Time', Elsevier, ISBN: 978-012811159-8, 2017. <https://doi.org/10.1016/C2016-0-00577-6>

**e. Articles to be submitted / in preparation**

01. Zhou, X., Tusch, J., **Mondal, S.K.**, Hoffmann, E., Maier, W., Tristan Bongartz, T., Kranendonk, M.V., Smithies, H., Becker, H., Münker, C., Fischer-Gödde, M.: Ruthenium isotope variations in Archean cratons and their constraints on the timing for equilibration of Earth's mantle with late accreted material. *to be submitted to Nature*
02. \***Mondal, S.K.**, Prichard, H.M., Rowe, R.A., McDonald, I.: Geochemistry and mineralogy of platinum group elements (PGE) in the Mesoarchean chromitites of the Nuasahi and Sukinda Complexes, Singhbhum Craton, India: Implications for high PGE concentration in chromitites and Ir solubility in chromites. *In preparation.*
03. Wangjam, M., **Mondal, S.K.**: Trace element geochemistry of magnetites - implications for Rare Earth Elements mobility and enrichment in magmatic-hydrothermal carbonatites. *To be submitted to Journal of Geological Society of India.*
04. #Banerjee, R., **Mondal, S.K.**, Wang, Z-C., Zhou, M-F.: Controls on textural and compositional variations of Fe-Ti oxides in basalts from the Deccan Traps, India: implications for Fe-Ti oxide mineralization potential. *In preparation.*
05. Teitler, Y., Baumgartner, R.J., Nasreen, A., Ramanaidou, E., Danisik, M., **Mondal, S.K.**, L. Schoneveld, L., Verrall, M.: Supergene redistribution of critical (Sc, PGE) and transition metals (Ni, Co, Cr) in the Sukinda chromitite-ultramafic complex, India.
06. Banerjee, R., Zhou, M.-F., **Mondal, S.K.**, Wen-Jun, H.: Fractional Crystallization, Crustal Contamination, and Fe-Ni-Cu (Co) Sulfide Mineralization in the Tholeiitic Suite of the Phenai Mata Igneous Complex, Deccan Traps: Implications for Sulfide Deposit Prospectivity in the Deccan Large Igneous Province.

**f. Conference abstracts**

International conference abstracts (\*presenting author)

01. \*Roy, S., **Mondal, S.K.** (2026): Episodic magmatic activities with changing tectonic settings in an evolving craton – evidence from major, trace and platinum-group element geochemistry of the Singhbhum dykes, India. GSA Denver, USA. *in press.*
02. \*Zhou, X., Tusch, J., **Mondal, S.K.**, Hoffmann, E., Maier, W., Tristan Bongartz, T., Kranendonk, M.V., Smithies, H., Becker, H., Münker, C., \*Fischer-Gödde, M. (2026):

- Ruthenium isotope variations in Archean cratons and their constraints on the timing for equilibration of Earth's mantle with late accreted material. **GeoMinBochum 2026 - Celebrating Planet Earth**, Sept 20-24, 2026, Germany. Abstract with programs.
03. \*Teitler, Y., Baumgartner, R.J., Nasreen, A., Ramanaidou, E., Danisik, M., **Mondal, S.K.**, Schoneveld, L., Verrall, M. (2026). Supergene redistribution of critical (Sc, PGE) and transition metals (Ni, Co, Cr) in the Sukinda chromitite–ultramafic complex, India. **International Symposium on Mafic-Ultramafic Mineral Systems (ISMUMS2026)**, Perth. Abstract with programs.
  04. \*Zhou, X., **Mondal, S.K.**, Bongartz, T., Münker, C., Fischer-Gödde, M. (2025): Ruthenium isotope evidence for a missing late accretion component in the Singhbhum Craton (India) mantle source. **Goldschmidt 2025 Conference**, Prague. Abstract with programs.
  05. Banerjee, R., **Mondal, S.K.**, Zhou, X., Reisberg, L.C. (2023): Petrogenesis of the 3.51 Ga komatiites from the Gorumahishani greenstone belt, Singhbhum Craton (eastern India). AGU23. Abstract.
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  07. Bhattacharjee, C., **Mondal, S.K.**, Reisberg, L. (2022): Petrogenesis of the 3.1Ga Mayurbhanj Gabbro-Anorthosite Complex, Singhbhum Craton (India): Magmatism in an active continental margin setting. **AGU Fall Meeting 2022**, Chicago, D112B-0010. Abstract.
  08. \***Mondal, S.K.**, Bhattacharjee, C., Reisberg, L. (2021): 3.2-3.0 Ga Sm-Nd age of gabbro-anorthositic rocks from the Nuasahi and Mayurbhanj Complexes (eastern India): Major mafic magmatic event in the Singhbhum Craton and associated Ni-Cu-(PGE) sulphide mineralization. **Goldschmidt 2021 Conference**, Virtual, 4-9 July 2021. Abstract with programs.
  09. \*Dey, A., **Mondal, S.K.** (2021): Origin of Fe-Ni-Cu sulfides in the 1.77 Ga mafic dyke from Satkosia area, Singhbhum Craton (eastern India). **Goldschmidt 2021 Conference**, Virtual, 4-9 July 2021. Abstract with programs.
  10. \*Banerjee, R., **Mondal, S.K.**, Reisberg, L., Zhou, X. (2021) Origin of Ni-Cu-sulfide minerals in the komatiitic rock suite of the Archean Gorumahisani Greenstone belt, Singhbhum Craton (eastern India). **Goldschmidt 2021 Conference**, Virtual, 4-9 July 2021. Abstract with programs.
  11. \*Bhattacharjee, C., **Mondal, S.K.** (2021): Mineral-chemistry of silicates, Fe-Ti oxides and sulfides in gabbro and magnetite of the Archean Nuasahi complex (India): Implications for magma fractionation, thermometry and oxygen fugacity of re-equilibration and Ni-Cu mineralisation. **Goldschmidt 2021 Conference**, Virtual, 4-9 July 2021. Abstract with programs.
  12. Bhattacharjee, C., **Mondal, S.K.** (2020): Origin of Sulfides in Gabbros from the Archean Mayurbhanj Mafic Igneous Complex, Singhbhum Craton, (Eastern India). International Geological Congress 2020 (IGC2020), New Delhi, India.
  13. Banerjee, R., **Mondal, S.K.** (2020): Compositional variation and patterns of alteration in chromites of Archean komatiites from Kapili area, Gorumahisani greenstone belt, Singhbhum Craton (eastern India). International Geological Congress 2020 (IGC2020), New Delhi.

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17. Datta, P., **Mondal, S.K.** (2020): Archean chromites from the Sargur greenstone belt, Western Dharwar Craton (Southern India): Compositional variations, thermometry and possible parental magmas. International Geological Congress 2020 (IGC2020), New Delhi, India.
18. Barman, S., **Mondal, S.K.**, \*Datta, A. (2019): Structural and Magnetic properties of Magnetite in the PGE-rich Magnetite Ores from the Mesoarchean Nuasahi Igneous Complex (Orissa, Eastern India). Poster presentation at SAIS Symposium 2019, organised by the School of Applied and Interdisciplinary Sciences, **Indian Association for the Cultivation of Science**. March 8-9, 2019. Abstract with programs.
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24. **Mondal, S.K.**, Prichard, H.M.: (2016): PGE-Rich Chromitite Bands in the Mesoarchean Nuasahi and Sukinda Massifs, Singhbhum Craton (India). **Goldschmidt 2016 Conference**, Yokohama (Japan). Abstract.
25. Prichard, H.M., **Mondal, S.K.**, Barnes, S.J. (2016): Advances in Understanding Ore Deposits in Mafic/Ultramafic Rocks. **Goldschmidt 2016 Conference**, Yokohama (Japan). Abstract.
26. Srivastava, R.K., Söderlund, U., Ernst, R.E., **Mondal, S.K.**, \*Samal, A.K. (2016): Neoarchean-Palaeoproterozoic mafic dyke swarms from the Singhbhum granite complex, Singhbhum craton, eastern India: implications for identification of large igneous provinces and their possible continuation on other formerly adjacent crustal blocks. **7<sup>th</sup> International Dyke Conference 2016 (IDC7)**, Beijing. Abstract with programs.
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28. \***Mondal, S.K.**, Pramanik, I., Mukherjee, R., Bank, S.P., Satyanarayanan, M. (2015): PGE geochemistry of Precambrian mafic dykes from the Singhbhum Craton (India). **Goldschmidt 2015 Conference**, Prague. Abstract No. 2174. Abstract with programs.
  29. Prichard M.H., \***Mondal, S.K.**, Mukherjee, R., Fisher, P.C., McDonald, I. (2015): PGE and PGM in the breccias and magnetites in the Nuasahi Massif, Singhbhum Craton, India. **Goldschmidt 2015 Conference**, Prague. Abstract 2538. Abstract with programs.
  30. \*Paulukat, C., Døssing, L.N., **Mondal, S.K.**, Frei, R. (2014): The behaviour of chromium isotopes during the oxidative weathering of ultramafic rocks. **Goldschmidt 2014 Conference**, California (USA). Abstract in **Geochimica et Cosmochimica Acta Supplement** 1915, Abstract with programs.
  31. \*Schilling, K., Basu, A., Johnson, T.M., Mason, P.R.D., Tsikos, H., **Mondal, S.K.** (2014): Se isotope signature of Paleoarchean and Paleoproterozoic banded iron formations. **Goldschmidt 2014 Conference**, California (USA). Abstract in **Geochimica et Cosmochimica Acta Supplement** 2207, Abstract with programs.
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  33. \***Mondal, S.K.**, Arai, S., Payot, B.D., Tamura, A. (2013): Lithospheric mantle connection of clinopyroxene inclusions in chromites from the Archean Nuasahi ultramafic-mafic complex (India). **Goldschmidt 2013 Conference**, Florence (Italy): Abstract with programs; abstract in **Mineralogical Magazine** page 1779.
  34. \*Mukherjee, R., **Mondal, S.K.**, González-Jiménez, J. M., Griffin, W.L., O'Reilly, S.Y., Pearson, N.J. (2013): Trace-element fingerprints of chromites and sulfides from the Archean Nuggihalli greenstone belt, western Dharwar craton, India. **Goldschmidt 2013 Conference**, Florence (Italy): Abstract with programs; abstract in **Mineralogical Magazine** page 1802.
  35. \*Døssing, L.N., Dideriksen, K., Crowe, S.A., **Mondal, S.K.**, Bovet, N., Frei, R. (2012): Chromium isotope fractionation during mobilisation and transport in Sukinda Valley, India. **Goldschmidt 2012 Conference**, Montreal (Canada): Abstract with programs. Abstract 01153, June 24-29, 2012. **Mineralogical Magazine**, Abstract 1655.
  36. \***Mondal, S.K.**, Bernstein, S., Rosing, M.T. (2011): Sulfide mineralogy of west Greenland kimberlitic mantle xenoliths. **Goldschmidt 2011 Conference**, Prague: Abstract with programs. Abstract in **Mineralogical Magazine**, Abstract No. 1498.
  37. \*Mukherjee, R., **Mondal, S.K.** (2011): Geology and age of the chromite deposits in the Nuggihalli greenstone belt, western Dharwar craton: implications for global high-Mg magmatism in the late Archean. **Humboldt Conference at Periyar University-2011**, 7-9 September 2011. Abstract with programs.
  38. \*Khatun, S., **Mondal, S.K.** (2011): Geology of the Mesoarchean chromite-PGE deposits in the Nuasahi ultramafic-mafic complex, Singhbhum Craton, India. **Humboldt Conference at Periyar University-2011**, 7-9 September 2011. Abstract with programs.
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40. \*Khatun, S., **Mondal, S.K.**, Balaram, V. (2009): Investigation of the Archean chromite deposits and gabbroic-breccia hosted PGE mineralisation in the Nuasahi and Sukinda massifs (India) using field geology and bulk rock geochemistry. **International Symposium on Magmatic Ore Deposits (ISMO-2009)**, Bhubaneswar, India; 1-4 December 2009. Abstract with programs. Extended abstract.
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48. \***Mondal, S.K.**, Mathez, E.A. (2005): Origin of UG2 and other chromitite layers of the Bushveld Complex. **Goldschmidt 2005 Conference**, (Idaho): Abstract with programs, Abstract published in **Geochimica et Cosmochimica Acta Supplement**, Vol. 69, Issue 10, Suppl 1, p. A153.
49. \*Sarkar, A., **Mondal, S.K.**, Ripley E.M., Li, C. (2003): Mineralogic and isotopic studies of chromite-bearing rocks of the Sukinda ultramafic complex, Orissa, India. **GSA Annual Meeting in Seattle**, November 2-5, 2003, USA. Abstract with programs.
50. **Mondal, S.K.**, Ripley, E.M., Li, C., Ahmed, A.H., Arai, S., Liipo, J., Stowe, C. (2003): Oxygen isotopic compositions of Cr-spinels from Archean to Phanerozoic chromite deposits. **Goldschmidt 2003 Conference**, (Japan); Abstract published in **Geochimica et Cosmochimica Acta Supplement**, Vol. 67, Issue 18, p.301. Abstract.
51. \***Mondal, S.K.**, Ripley, E.M., Li, C., Sarkar, A. (2003): Chemical composition and significance of Cr-spinel in Archean greenstone belt ultramafic-mafic intrusive and extrusive rocks of the Singhbhum Craton, Eastern India. **GAC-MAC-SEG joint meeting** at Vancouver, 25-28 May 2003, Canada, Abstract No. 616; Abstract with programs.
52. \***Mondal, S.K.**, Ripley E. M., Li, Chusi, Mariga, J. (2002): Stable isotopic studies of the chromite, Fe-Cu-Ni-sulfide and PGE-mineralised Archean Nuasahi ultramafic-mafic

complex, Orissa, India, **GSA Annual meeting** at Denver, October 2002, USA, Paper no. 52-4, Session No. 52, Abstract with programs.

53. \*Chakraborti, O.P., Das, P.K., **Mondal, S.K.** (1999): Study of indentation-induced cracks in MoSi<sub>2</sub>-reaction bonded SiC ceramics. International conference on fatigue and fracture of glass, ceramics and composites, 22-23 September 1999, **Material Research Society of India**, Indian Institute of Cultivation of Science, Calcutta. Abstract no. CMC-4. Abstract with programs.

National conference/workshop abstracts (\*presenting author)

01. **Mondal, S.K.** (2025): Sustainable resourcing of Platinum Group Elements (PGE): Studies to understand and locate PGE in chromitites, breccias, magnetitites, and komatiites in India. *In*: Abstracts volume of the workshop on '**Recent Advances in Fundamental Geosciences**', organized by the Geological Survey of India, Southern Region, 22 August 2025, Hyderabad, India. (invited talk)
02. \***Mondal, S.K.**, Prichard, H.M. (2025): Distribution of Os-Ir-Ru-alloys in Archean chromitites of the Singhbhum Craton (India): Origin from a depleted mantle source. National Seminar on '**Dynamic Processes of the Earth: from Deep Interior to Surface**', March 21 & 22, 2025, Presidency University, India. \*Deceased, (invited talk)
03. Ghosh, D., \*Banerjee, R., \*Bera, P., **Mondal, S.K.** (2016): Petrographic Character of the Deccan Basalt in the Koyna Bore Hole, India. pp 203-207. Abstract with programs. 'Developments in Geosciences in the Past Decade - Emerging Trends for the Future & Impact on Society' & **Annual General Meeting of the Geological Society of India**, IIT-Kharagpur, 21-23 Oct 2016.
04. \*Bhattacharjee, S., **Mondal, S.K.** (2016): Detrital chromites: parental magmas and probable tectonic settings. pp 79-82. Abstract with programs. 'Developments in Geosciences in the Past Decade - Emerging Trends for the Future & Impact on Society' & **Annual General Meeting of the Geological Society of India**, IIT-Kharagpur, 21-23 October 2016.
05. \*Bank, S.P., **Mondal, S.K.**, Satyanarayanan, M. (2016): Origin of spherulites in the Proterozoic Jagannathpur-Malangtoli mafic volcanic suite from the Singhbhum craton, India. pp 47-50. Abstract with programs. 'Developments in Geosciences in the Past Decade - Emerging Trends for the Future & Impact on Society' and **Annual General Meeting of the Geological Society of India**, IIT-Kharagpur, 21-23 October 2016.
06. **Mondal, S.K.** (2012): From core-mantle interaction to late heavy meteorite bombardment: understanding the platinum group element (PGE) character of the Earth's mantle. National Seminar on 'Recent advances and future challenges in Geochemistry and Geophysics: The Indian scenario', Banaras Hindu University, India, February 22-24, 2012. Abstract with programs. (invited talk)
07. **Mondal, S.K.** (2011): Chromites of the Archean greenstone belts of India: implications for tectonic settings. National workshop on the 'Precambrian Tectonics and Related Mineralization in South India', October 13-14, 2011, organized by the **AMD-BRNS (BARC-DAE)** - Bangalore, India. Abstract with programs. (invited talk)
08. **Mondal, S.K.** (2011): Ore Deposits of the Platinum Group Elements (PGE). **Annual General Meeting of the Geological Society of India**, Banaras Hindu University, India, September 22-24, 2011. Abstract with programs. (invited talk).
09. **Mondal, S.K.** (2007): PGE fractionation in natural magmas and igneous rocks: why and how? Published in the proceeding volume of MSI-2007 and the national seminar on

exploration for PGE, gold, and diamonds in India, NGRI, Hyderabad, India. Abstract with programs. Extended abstract. (invited talk).

***g. Other publications/reports/conference proposals***

01. 2024: Co-author, Session Proposal, Goldschmidt Conference, 2025, Prague
02. 2021: Co-author, Session Proposal, Goldschmidt Conference Virtual
03. 2019: Co-author, Session Proposal, Goldschmidt Conference 2019, Barcelona
04. 2016: Co-author of Session Proposal, Goldschmidt Conference 2016, Japan
05. 2015: Co-author of Session Proposal, Goldschmidt Conference 2015, Prague
06. Mondal, S.K. (2014): Goldschmidt Conference 2013, Florence, Italy. News & Notes, Journal of the Geological Society of India 2014, Vol 83: 104-105
07. Mondal, S.K. (2013): B.P. Radhakrishna-The last Gandhian Scientist. REMINISCENCES, Published by Geological Society of India, 149-153
08. 2013: Co-author of Session Proposal, Goldschmidt Conference 2013, Florence
09. Mondal, S.K. (2012): 21<sup>st</sup> Annual V. M. Goldschmidt Conference, Prague, News & Notes, Journal of the Geological Society of India 2012, Vol 79: 111-112
10. 2012: Fund proposals (MoES and DST) as convenor under the Geological Society of India (Bangalore) to organise the IGCP short course, field workshop, and seminar
11. 2011: Co-author of Session Proposal, Goldschmidt Conference 2011, Prague
12. 2010: Author, fund proposal (Karnataka State Geology Dept) under the Geological Society of India (Bangalore) to organise a field workshop in Nuggihalli Belt, Karnataka
13. Mondal, S.K. (2006): Contributed and featured as a scientist in the textbook project for kids (at the level of Grade 4) in the AMNH, New York City. The book was published by Macmillan/McGraw-Hill, NYC, where the feature discusses the role of a geologist and is part of the teaching materials used in elementary schools in the USA.

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