

Research Publications of Prof A. S. Venkatesh, Professor, Department of Applied Geology, Indian Institute of Technology (Indian School of Mines), Dhanbad

Research Interests: Ore Geology, Environmental Geology, Medical Geology, Mining Geology and Mineral Exploration

- a. **ORCID ID No:** 0000-0002-3342-4374
- b. **Scopus Author ID:** 7004694238
- c. **Research Gate ID:** https://www.researchgate.net/profile/Venkatesh_Akella
- d. **Academia Edu:** <http://mmeism76.academia.edu/venkateshakella>
- e. **Google Scholar Citations:**
<http://scholar.google.co.in/scholar?hl=en&q=A+S+Venkatesh+Indian+School+of+Mines&btnG=>
- f. **Vidwan Database:** <http://vidwan.inflibnet.ac.in/searchr.php?id=44324>

Refereed Journals (* Corresponding author)

- 1 Chakravarti., R., Frimmel, H. E., Singh, S., Barla, A., **Venkatesh, A. S** and Balakrishnan, S. (2022). A geochemical and mineral chemical assessment of sediment provenance and post-depositional alteration of auriferous conglomerates in the Singhbhum Craton. **J. Geochemical Exploration**. 107095. <https://doi.org/10.1016/j.oregeorev.2022.105125>. **Impact Factor. 4.166. Q2.**
- 2 Prasad, J., **Venkatesh, A. S***, and Sahoo, P. R. (2022). A Submarine Hydrothermal Origin of Banded Iron Formations from Archean Kiriburu-Meghahatuburu iron ore deposit, Singhbhum Craton, eastern India. **Ore Geology Reviews**. <https://doi.org/10.1016/j.oregeorev.2022.105125>. **Impact Factor. 3.714. Q1.**
- 3 Sahoo, J., Sahoo, P. R., Khan, I. and **Venkatesh, A. S. (2022)**. Facies variations of felsic volcanic rocks around Mundiawas-Khera copper deposit, Alwar Basin, North Delhi Fold Belt, western India. **J. Geol. Soc. India** (Accepted for publication).
- 4 Pathakamuri, P.C., Villuri, V.G.K., Pasupuleti, S., Banerjee, A and **Venkatesh, A.S. (2022)**. A holistic approach for understanding the status of water quality and causes of its deterioration in a drought-prone agricultural area of Southeastern India. **Environ. Sci. Pollut. Res.** <https://doi.org/10.1007/s11356-022-22906-z>, **Impact Factor. 5.190., Q2.**
- 5 Kumar, S., Singha S., Singh, R · **Venkatesh, A. S.*** and Gogoi U. (2022). A knowledge-driven multi-criteria decision making- Analytical Hierarchy Process based geospatial modeling for the delineation of fluoride contamination zones in groundwater, Jamui district, Indo-Gangetic alluvial plains, India. **Groundwater for Sustainable Development**, 18, 100795, <https://doi.org/10.1016/j.gsd.2022.100795>
- 6 Sahoo, J., Sahoo, P.R., Khan, I. and **Venkatesh, A.S. (2022)**. Insights into the Metallogenesis of the Felsic Volcanic Hosted Mundiawas-Khera Cu Deposit, Alwar Basin, Western India. **Minerals** 2022, 12, 370. <https://doi.org/10.3390/min12030370>. **Impact Factor. 2.380. Q2.**
- 7 Khare, S. K. , Asthana, D. and **Venkatesh, A. S. (2022)**. Petrogenetic insights from relict augites in Neoarchean Kotima basalt of Dongargarh Supergroup, Bastar Craton, Central India. **Journal of Earth System Science**. <https://doi.org/10.1007/s12040-021-01747-3>. **SCI. Impact Factor. 1.371. Q4.** (Springer).

- 8 Kumar, S. Singh, R · **Venkatesh, A. S.*** Udayabhanu, G and Singh, T. B. N. **(2022)**. Assessment of Potentially Toxic Elements Contamination on the Fertile Agricultural Soils within Fluoride-Affected Areas of Jamui District, Indo-Gangetic Alluvial Plains, India. **Water Air Soil Pollution** (An International Journal of Environmental Pollution), DOI: <https://doi.org/10.1007/s11270-021-05488-3>. SCI. **Impact Factor. 2.520. Q2.** (Springer).
- 9 Singha, S. S. Singha, S. Pasupuleti, S. and **Venkatesh, A. S. (2022)**. Knowledge-driven and machine learning decision tree-based approach for assessment of geospatial variation of groundwater quality around coal mining regions, Korba district, Central India. **Environmental Earth Sciences.** 81:36. <https://doi.org/10.1007/s12665-021-10147-1>. SCI. **Impact Factor. 1.871. Q2.** (Elsevier).
- 10 Kumar, H, Syed, T. H. Amelung, F, Agrawal, R and **Venkatesh, A. S. (2022)**. Space-time evolution of land subsidence in the National Capital Region of India using ALOS-1 and Sentinel-1 SAR data: Evidence for groundwater overexploitation. **Journal of Hydrology**, 605, 127329. DOI: <https://doi.org/10.1016/j.jhydrol.2021.127329>. SCI. **Impact Factor. 5.722. Q1.** (Elsevier)
11. Kanouo, N. S. Kouske, A. P. Ngueutchoua, G., **Venkatesh, A.S.**, Sahoo, P. R., and Basua, E. A. **(2021)**. Eoarchean to Neoproterozoic Detrital Zircons from the South of Meiganga Gold-Bearing Sediments (Adamawa, Cameroon): Their Closeness with Rocks of the Pan-African Cameroon Mobile Belt and Congo Craton. **Minerals**, 11, 77. <https://dx.doi.org/10.3390/min11010077>. SCI. Impact Factor. 2.380. **Q2.**
12. Singh, R., **Venkatesh, A.S*.**, Sudhakar, Ch., Sethy S N and Prasad Babu, K. **(2020)**. Exploration for strategic placer mineral deposits in a fluctuating shoreline: Depositional environment and mineralogical characterization of the NE Odisha coast placers, India. **Ore Geology Reviews**, Vol. 127, DOI NO: <https://doi.org/10.1016/j.oregeorev.2020.103850>, SCI, Impact Factor: 3.387, **Q1**
13. Sharma, J.P., Sahoo, P.R., Mahanta, H., **Venkatesh, A. S.**, Babu, E. V. S. S. K. and John, M. M. **(2020)** Constraints on the genesis of the Proterozoic bornite dominated copper deposit from Nim ka Thana, western India: An IOCG perspective. **Ore Geology Reviews**, Vol. 118, DOI NO: <https://doi.org/10.1016/j.oregeorev.2020.103338> SCI, Impact Factor: 3.387, **Q1**
14. Sengar, V., **Venkatesh, A.S.***, Champati Ray P.K, Sahoo, P. R., Khan I and Chatteraj, S. L. **(2020)** Spaceborne mapping of hydrothermal alteration zones associated with the Mundiawas-Khera copper deposit, Rajasthan, India, using SWIR bands of ASTER: Implications for exploration targeting. **Ore Geology Reviews**, Vol. 118, DOI NO: <https://doi.org/10.1016/j.oregeorev.2020.103327> SCI, Impact Factor: 3.387, **Q1**
15. Kumar, S., Singh, R., **Venkatesh, A.S*.**, Udayabhanu, G and Sahoo, P. R. **(2019)** Medical Geological assessment of fluoride contaminated groundwater in parts of Indo-Gangetic Alluvial plains. **Scientific Reports Nature** (<https://doi.org/10.1038/s41598-019-52812-3>). SCI. **Impact Factor: 4.011.,Q1**
16. Khatun, M., Singh, S., Chakravarti, R and **Venkatesh, A. S. (2019)** Genetic constraints and possible mechanism of gold mineralization within the carbonaceous metasedimentary units of the Dalma volcano-sedimentary Belt, North Singhbhum Mobile Belt, eastern India: Implications from pyrite geochemistry, carbon and sulfur isotope studies. **Geological Journal**. DOI: 10.1002/gj.3736. SCI. **Impact Factor: 1.949. Q3**

17. Singha, S., Pasupuleti, S., Darbha K. S., Singha, S. S., Singh, R and **Venkatesh, A.S. (2019)**. An analytical hierarchy process-based geospatial modeling for delineation of potential anthropogenic contamination zones of groundwater from Arang block of Raipur district, Chhattisgarh, Central India. **Environmental Earth Sciences**. 78:694. 4
<https://doi.org/10.1007/s12665-019-8724-z>, SCI, **Impact Factor. 1.871. Q2**
18. Mukherjee R, **Venkatesh, A.S*** and Fareeduddin **(2019)**. Geochemical characterization of mineralized albitite from Paleoproterozoic Bhukia IOCG-IOA deposit of Aravalli-Delhi Fold Belt, Rajasthan, western India: Genetic linkage to the gold ($\pm$ Cu $\pm$ U) mineralization. **Geological Journal**. 1–23. <https://doi.org/10.1002/gj.3669>, SCI, **Impact Factor: 1.949. Q3**
19. Singha, S.S., Pasupuleti, S., Singha, S. ., Singh, R and **Venkatesh, A.S. (2019)**. A GIS-based modified DRASTIC approach for geospatial modeling of groundwater vulnerability and pollution risk mapping in Korba district, Central India. **Environmental Earth Sciences** (Springer), 78, 628, (DOI:<https://doi.org/10.1007/s12665-019-8640-2>). SCI, **Impact Factor. 1.871. Q2**
20. Majumdar, S., Singh, S., Sahoo, P. R. and **Venkatesh, A. S. (2019)**. Trace-element systematics of pyrite and its implications for refractory gold mineralisation within the carbonaceous metasedimentary units of Palaeoproterozoic South Purulia shear zone, eastern India. **J Earth System Science**, DOI: <https://doi.org/10.1007/s12040-019-1256-9>. SCI, **Impact Factor: 1.423. Q4**
21. Singha, S.S., Pasupuleti, S., Singha, S., Singh, R and **Venkatesh, A.S. (2019)**. Analytic Network Process based approach for delineation of groundwater potential zones in Korba district, Central India using remote sensing and GIS, **Geocarto International**, DOI: 10.1080/10106049.2019.1648566. SCI, **Impact Factor: 3.789. , Q1**
22. Pant, S., Singh, S., Sahoo, P. R., Kumar, A., Saravanan, B., **Venkatesh, A.S.**, Yadav, G.S and Kumar, P. **(2019)**. Mineral chemistry and geothermometry of chlorites in relation to physico-chemical conditions of uranium mineralization in the central part of the Singhbhum Shear Zone, eastern India, **Ore Geology Reviews**, 112, 102997. DOI: <https://doi.org/10.1016/j.oregeorev.2019.102997>. SCI, **Impact Factor: 3.387., Q1**
23. Fatima, A., **Venkatesh, A. S.**, Mukherjee, R., Agrawal. A.K., Singh, B., Sarkar. P.S., Kashyap, Y., Shripathi, T. **(2019)**. 3D spatial distribution of ore mineral phases using high resolution synchrotron micro-computed tomography (μ CT) combined with optical microscopy. **Applied Radiation and Isotopes**. 148 49–59. SCI., **Impact Factor: 1.123. Q2**
24. Naladala, N.R., Singh, R., **Venkatesh, A.S.**, Bose, P., Babu, K. P. and Narayan, I.D. **(2019)** Effectiveness of Bio-Activated Carbon Filtration and Ozonation on Control of Halo Acetic Acids Formation during Chlorination of Ganga River Water at Kanpur, India, **Ozone: Science & Engineering**, The Journal of the International Ozone Association, DOI: 10.1080/01919512.2019.1604205. SCI., **Impact Factor: 2.082. Q3**

25. Patra, S., Pattanaik, A., **Venkatesh, A. S.** and Venugopal, R. **(2019)**. Mineralogical and Chemical Characterization of Low Grade Iron Ore Fines from Barsua Area, Eastern India with Implications on Beneficiation and Waste Utilization. **J. Geological Society of India**. Vol.93, April 2019, pp.443-454. SCI., Impact Factor: 0.632. Q4
26. Nayak, B., Mohapatra, R. K., Mangaraj, M., **Venkatesh, A. S.** and Behera, P. N. **(2019)**. Mineralogical Characterisation of Beach Placers at Kantiaghar in Ganjam District, Odisha. **J. Geological Society of India**. Vol.93, February 2019, pp.194-198. SCI., Impact Factor: 0.632. Q4
27. Singh, R., **Venkatesh A.S***, Syed, T.H., Surinaidu, L., Srinivas, P., Rai, S.P. and Kumar, M **(2018)**. Stable isotope systematics and geochemical signatures constraining groundwater hydraulics in the mining environment of the Korba Coalfield, Central India. **Environmental Earth Sciences** (Springer), (doi: 10.1007/s12665-018-7725-7). SCI. **Impact Factor. 1.435. Q2**
28. Kanouo, N. S, Ngueutchoua, G, Kouske, A. P, Yongue, R F and **Venkatesh, A. S. (2018)**. Trace Element and U–Pb Core Age for Zircons from Western Meiganga Gold Placer, Cameroon: Their Genesis and Archean-Proterozoic Sources. **Minerals**, 8, 194; doi: 10.3390/min8050194. SCI. **Impact Factor. 2.380. Q2**
29. Kumar, S., **Venkatesh, A.S***, Singh, R., Udayabhanu, G., Saha, D **(2018)**. Geochemical signatures and isotopic systematics constraining dynamics of fluoride contamination in groundwater across Jamui district, Indo-Gangetic alluvial plains, India, **Chemosphere**, 205, 493-505. doi: 10.1016/j.chemosphere.2018.04.116. **SCI. Impact Factor. 5.108. Q1**
30. Chakravarti, R., Singh, S., **Venkatesh, A.S.**, Patel, K and Sahoo, P. R. **(2018)**. A Modified Placer Origin for Refractory Gold Mineralization within the Archean Radioactive Quartz Pebble Conglomerates from the Eastern Part of Singhbhum Craton, India. **Economic Geology**. 113, 3, 579-596. doi: 10.5382/econgeo.2018.4563; SCI. **Impact Factor. 4.013. Q1**
31. Prasad, J., **Venkatesh, A.S***, Sahoo, P.R., Singh, S and Sylvestre Kanouo, N. **(2017)**. Geological Controls on High-Grade Iron Ores from Kiriburu-Meghahatuburu Iron Ore Deposit, Singhbhum-Orissa Craton, Eastern India. **Minerals**. 7(10), 197. DOI.10.3390/min7100197, SCI. **Impact Factor. 2.380. Q2**
32. Mukherjee, R., **Venkatesh, A. S*** and Fareeduddin. **(2017)**. Chemistry of magnetite-apatite from albitite and carbonate-hosted Bhukia Gold Deposit, Rajasthan, western India – An IOCG-IOA analogue from Paleoproterozoic Aravalli Supergroup: Evidence from petrographic, LA-ICP-MS and EPMA studies. **Ore Geology Reviews** (Elsevier), 90, 509-529, DOI: 10.1016/j.oregeorev.2017.09.005, SCI. **Impact Factor. 3.387. Q1**
33. Sengar, V K., Champati Ray, P. K., Chatteraj, S L ., **Venkatesh, A S.**, Sajeev, R., Konwar, P and Thapa, S (2017) Demarcation of mineral rich zones in areas adjoining to a copper

prospect in Rajasthan, India using ASTER, DEM (ALOS) and space-borne gravity data. Proc. SPIE 10428, Earth Resources and Environmental Remote Sensing/GIS Applications VIII, ; doi: 10.1117/12.2277526;http://dx.doi.org/10.1117/12.2277526/

34. Singh, R., **Venkatesh A.S***, Syed, T.H., Reddy, A.G.S., Kumar, M and Kurakalava, R. M **(2017)** Assessment of Potentially Toxic Trace Elements Contamination in Groundwater Resources of the Coal Mining Area of the Korba Coalfield, Central India. **Environmental Earth Sciences** (Springer), 76, 556, (DOI: 10.1007/s12665-017-6899-8). SCI. **Impact Factor. 1.871. Q2**
35. Singh, R., Syed, T.H., Kumar, S., Kumar, M and **Venkatesh A.S. (2017)**. Hydrogeochemical Assessment of Surface and Groundwater Resources of Korba Coalfield, Central India: Environmental Implications. **Arabian Journal of Geosciences** (Springer), 10, 318, 1-16, DOI: 10.1007/s12517-017-3098-6. SCI. **Impact Factor. 1.327. Q4**
36. Kumar, A., **Venkatesh, A.S**, Kumar, P., Rai, A. K and Parihar, P S. **(2017)**. Geochemistry of Archean Radioactive Quartz Pebble Conglomerates and Quartzites from western margin of Singhbhum-Orissa Craton, eastern India: Implications on Paleo-weathering, Provenance and Tectonic Setting. **Ore Geology Reviews** (Elsevier), 89, 390–406, DOI: http://dx.doi.org/10.1016/j.oregeorev.2017.06.014, SCI. **Impact Factor. 3.387. Q1**
37. Chakravarti, R., Singh, S and **Venkatesh, A. S.** (2017). Gold Mineralisation within Quartz Pebble Conglomerates of Gorumahisani-Badampahar Schist belt, Singhbhum Craton, Eastern India. **Journal of Geosciences Research**, Special Volume No.1, 2017, pp. 27-34.
38. Mukherjee, R., **Venkatesh, A. S*** and Fareeduddin. **(2016)**. Albitite hosted gold-sulfide mineralization: Example from Paleoproterozoic Aravalli supracrustal sequence, Bhukia area, Western India. **Episodes**, 39, 4, 590-598. DOI:10.18814/epiiugs/2016/v39i4/103891. (International Union Geo Sciences Journal-IUGS) SCI. **Impact Factor. 3.23.**
39. Prakash, A., Murthy, V. M. S. R., Singh, K. B. Venkatesh, A. S. **(2016)**. Effect of Rock Fracture Toughness and mineralogy on cutting Performance of Surface Miner- some investigations. **J. Mines, Metals and Fuels**, 386-394. Scopus, S.J.R. I.F. 0.122.
40. Sengar, V. K., **Venkatesh, A. S.**, Champati Ray, P. K., Chatteraj, S. L., Sharma R. U., (2016). Mineralogical Mapping in The Part of a Gold Prospect Using EO-1 Hyperion data. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences (IPRSS), Vol. XLI-B7, pp. 991-993. (doi: 10.5194/isprs-archives-XLI-B7- 991-2016).
41. Yadav, G. S., U. K. Pandey, U. K., Aravind, S. L., P. K. Panchal, P.K., **Venkatesh, A. S.**, Sahoo, P.R., Chaturvedi, A. K., Rai. A. K and Parihar, P. S **(2016)**. U–Pb, Pb–Pb and Sm–Nd ages of davidite within albitite zone from Bichun, Jaipur district, Rajasthan, India: possible link between uranium mineralization and Grenvillian orogeny. **Current Science**, 111, 5, 907-912 , doi: 10.18520/cs/v111/i5/907-913. SCI. Impact Factor. 1.0.

42. Kanouo, N.S., , Ekomane, E., Yongue, R.F., Njonfang, E., , Khin Zaw, Changqian Ma, Ghogomu,T.R., Lentz, D.R., **Venkatesh A.S. (2016)**. Trace elements in corundum, chrysoberyl, and zircon: application to mineral exploration and provenance study of the western Mamfe gem clastic deposits (SW Cameroon, Central Africa). **Journal of African Earth Sciences** (Elsevier), 113, 35-40. DOI: doi:10.1016/j.jafrearsci.2015.09.023. S.C.I. I.F. 1.603. **Q3**
43. Kanouo, N.S., Yongue, R.F., Ekomane, E., Njonfang, E., Ma, C., Lentz, D., She, Z., Zaw, K and **Venkatesh, A. S. (2015)**. U–Pb Ages for Zircon Grains from Nsanaragati Alluvial Gem Placers: Its Correlation to the Source Rocks. **Resource Geology** (Japan), DOI: 10.1111/rge.12063. Volume 65, Issue 2, pages 103–121, April 2015. S.C.I., I.F. 1.418. **Q2**
44. Jha, V., Singh, S and **Venkatesh, A. S. (2015)** Invisible Gold Occurrence within the Pyrite of Babaikundi Area, North Singhbhum Fold Thrust Belt, Eastern Indian Shield. Evidences from Petrographic, SEM and EPMA studies. **Ore Geology Reviews** (Elsevier) 65, 426–432. DOI: 10.1016/j.oregeorev.2014.10.003. S.C.I., I.F. 3.993. **Q1**
45. Sahoo, P R and **Venkatesh A. S.* (2015)**. Constraints on mineralogical characterization of gold ore: Implication for genesis, controls and evolution of gold from Kundarkocha gold deposit, eastern India. **Journal of Asian Earth Sciences** (Elsevier) 97 (2015) 136–149 (Elsevier) DOI: 10.1016/j.jseaes.2014.09.040. S.C.I., I.F. 3.059. **Q2**
46. Sahoo, P R and **Venkatesh A. S.* (2014)**. "Indicator" carbonaceous Phyllite/graphitic schist in the Archean Kundarkocha gold deposit, Singhbhum orogenic belt, eastern India: Implications for gold mineralization vis-a-vis organic matter. **J. Earth System Science** (Springer), 123, 7, 1693–1703. DOI: 10.1007/s12040-014-0488-y. S.C.I., I.F. 1.27.
47. Karun Kumar Chandan, Vandana Jha, Sairaj, K, Sahendra Singh and **Venkatesh, A. S (2013)**. Greenfield exploration prospects of orogenic gold mineralization in and around Lawa area, North Singhbhum Mobile Belt, Eastern Indian Craton. International Journal of Applied and Natural Sciences (IJANS), ISSN 2319-4014, Vol. 2, Issue 4, Sep 2013, 81-90.
48. Bhargava, P, **Venkatesh, A S** and Mandre N R (2012). Beneficiation of Low- Grade Iron Ore by Flotation. SGAT Bulletin, 13, 2, 13-17.
49. Gupta, M, **Venkatesh, A S** and Mandre N R (2012). Selective Flocculation of Low-Grade Iron Ore Slimes. SGAT Bulletin, 13, 2, 123-128.
50. Kumar, A, **Venkatesh, A S**, Ramesh Babu, P V and Nanda S. (2012). A note on the presence of Au-REE±Ag-Pt in Archean Iron Ore Group sediments, western margin of Bonai granite pluton, eastern India. Exploration and Research for Atomic Minerals (EARFAM), AMD, DAE, Hyderabad. vol. 21, October, 2011, 9-19 (published in 2012).

51. Kumar, A, **Venkatesh, A S**, Ramesh Babu, P V and Nayak, S. **(2012)**. Genetic Implications of rare uraninite and pyrite in quartz-pebble conglomerate from Sundargarh district of Orissa, Eastern India. **J Geological Society of India**, 79, 279-286. (Springer). S.C.I. I.F. 0.479.
52. Upadhyay, R. K., Asokan, S and **Venkatesh, A. S***, **(2011)**. Mode of occurrence of phosphorous in iron ores of eastern limb, Bonai synclinorium, eastern India. **J Geological Society of India**, June 2011, 77, 6, 549-556 (Springer) S.C.I., I.F. 0.479.
53. Singh, S., **Venkatesh, A. S.** and Sarkar, B. C. (2011). Gold deposits: Global Perspective and National Scenario. *J. Geoscientists*, 1, 1, 55-63.
54. Upadhyay, R.K., **Venkatesh, A. S.*** and Roy S. **(2010)**. Iron ore deposits of eastern India: Geological aspects and their mineralogical characteristics; **Resource Geology**, (Japan) , v. 60,2, 203-211. S.C.I., I.F.0.479. **Q2**
55. Sahoo, P.R, Prasad, J., Prakasam, M., Singh, S and **Venkatesh A.S.*** (2010). Orogenic gold mineralization in and around Kundarkocha, east Singhbhum, Jharkhand” *Journal of the Indian Academy of Geoscience* (ISSN 0379-5160), 52, 1, 11-18.
56. Roy, S. and **Venkatesh. A. S.,*** **(2009a)**. Banded Iron Formation to Blue Dust: Mineralogical and Geochemical constraints from the Precambrian Jilling-Langalata Deposits, Eastern Indian Craton, **Applied Earth Science (Trans. Inst. Min. Metall. B)**, v 118 No 3/4, 178-188.
57. Singh, S and **Venkatesh, A S** , (2009). Geochemistry of host rocks and its implication on the genesis of orogenic gold mineralization within Sonakhan schist belt, Central India, Goldschmidt Conference Abstracts 2009, **Geochim Cosmochim. Acta**, A1229.
58. Roy, S. and **Venkatesh. A. S.,*** **(2009b)**. Mineralogy and geochemistry of Banded Iron Formation and iron ores from eastern India with implications on their genesis. **J. Earth System Science** (Springer). 118, No. 6, December 2009, pp. 1–23.
59. Upadhyay, R.K., Roy S., **Venkatesh A. S***, Rao M.V.S. and Banerjee, P. K. **(2009)**. Relevance of geological aspects and ore mineralogy for selecting beneficiation methods for processing of eastern Indian iron ores. **Journal of Mineral Processing and Extractive Metallurgy (Trans. Inst. Min. Metall. C)**, vol. 118, no. 1, pp. 49-59.
60. Roy, S., Das A. and **Venkatesh. A. S.,*** **(2008)** A comparative mineralogical and geochemical characterisation of iron ores from two Indian Precambrian deposits and Krivoy rog deposit, Ukraine: implications for the upgrading of lean grade ore. **Applied Earth Science: IMM Transactions section B**, 117, 3, 125-147(23).
61. Roy Subrata, Das Avimanyu and **Venkatesh A. S.*** **(2007)**. Characterization of Iron Ore from Jilling area of eastern India with a view to beneficiation. *Iron Ore 2007*, Australia, Trans Aus IMM, pp.179-186.

62. Upadhyay, R.K., and **Venkatesh, A.S.,*(2006)**. Current strategies and future challenges on exploration, beneficiation and value addition of iron ore resources with special emphasis on iron ores from eastern India. **Applied Earth Science (Trans. Inst. Min. Metall. B)**, Vol. 115, No 4, p 187-195.
63. Singh, S. and **Venkatesh, A.S.*** (2006). Geochemistry of Mafic Volcanic Host rocks associated with Gold mineralization within Sonakhan Group, Central India. *Indian J Geochemistry* 21 (2), 381-400.
64. Majumder, T, **Venkatesh, A.S,*** Kumar V and Upadhyay, R.K. (2005). Mineralogical Characterisation of Iron Ores From Eastern India With Special Emphasis on Beneficiation of Iron Ore Fines. Iron ore 2005 Intl. conference, Fremantle, WA, Australia, 19-21, Sept, 2005. **Trans Aus IMM** special publication series no 8/2005, 227-231.
65. Rai, K.L., Pandey, H K., **Venkatesh, A.S.,** Dash, S K., Agarwal, S and Diwan, P (2004). Granitoids, their altered variants and associated rocks from Malanjkhand, Central India: Geological setting, geochemistry, evolution and petrogenesis. *J Econ. Geol. and Georesource Mangagement*, 1, 2, 235-277.
66. Saha, I and **Venkatesh, A. S.* (2002)** Invisible Gold within sulfides from Archean Hutti-Muski schist belt, Southern India. **J. Asian Earth Sciences.**, v.20, pp 449-457 (Featured as Elsevier's most downloaded papers for the journal with very high citations). **Q2**
67. **Venkatesh, A S** (2002) Invisible Gold to Native Gold: An interplay within the deep crustal scale shear regimes: First report from Sakoli Group, Central India. Deep Continental Studies (DCS) (Department of Science and Technology, Govt of India publication) News letter, vol.12.No.1, pp. 22-24.
68. Mishra, T., Jose, B., Deepa, K K., Sreehari, S M S. and **Venkatesh, A S.* (2001)** Auriferous mineralisation in the Sakoli Group, Central India with particular reference to the occurrence of sulphide bound gold. *Applied Earth Sci.*, **Trans. Instn. Min. Metall. Sec: B:** (U.K), V.110, B103-109. <http://dx.doi.org/10.1179/aes.2001.110.2.103>.
69. Rai, K L and **Venkatesh, A S (1993)**. Geological setting and nature of copper-molybdenum mineralization in the intra-continental acid magmatic regime of Malanjkhand, Central India. **Resource Geology** (Japan), 5, 285-297. **Q2**
70. Poornachandra Rao, G V S., **Venkatesh, A S*** and Bhalla M S (1991). Palaeomagnetic results of pyroxenites from Sukinda valley, Orissa, SE India and their tectonic implications. *Indian J. Geol.*, 63, 2, 106-118.
71. **Venkatesh, A S.,** Poornachandra Rao, G V S., Prasada Rao, N T V and Bhalla M S. **(1987)**. Palaeomagnetic and geochemical studies on dolerite dykes from Tamil Nadu, India. **Precambrian Research**, 34, 3-4, 291-310. **Impact factor, 4.427 , Q1**

72. Poornachandra Rao, G V S., Radhakrishna, T and **Venkatesh, A S.*** (1986). Palaeomagnetism of dolerite dykes from north Kerala region. *Geophys. Res. Bull.*, 24, 3, 121-128.
73. Radhakrishna, T., Poornachandra Rao, G V S., Mitchell, J G and **Venkatesh, A S.*** (1986). Proterozoic dyke activity in Kerala along the western continental margin of India. *J Geol. Society of India.*, 27, 245-253.
74. **Venkatesh, A S.,*** Poornachandra Rao, G V S., Prasada Rao, N T V and Bhalla M S. (1984). Palaeomagnetism and age of dolerite dykes near Kunnam, South Arcot District, Tamil Nadu. *Geoviews*, XII, 101-105.

Conference Papers

International/National conference proceedings-Full papers /abstracts

1. Sahoo, P R., Khan, I., Golani, P R., Venkatesh A S and Gupta, S. (2016). Geological aspects and fluid evolution associated with copper (gold+silver) mineralization in the Mundiawas- Khera area, Alwar district, Rajasthan, western India. [Asian Current Research On Fluid Inclusions \(ACROFI-VI\)](#), Indian Institute of Technology, Bombay, 25th to 27th November, 2016, Extended Abstracts Volume.
2. Mukherjee, R., Fareeduddin and Venkatesh, A. S. (2016) Compositional Variation of Tourmaline from the Paleoproterozoic Bhukia Gold Prospect of Aravalli Supergroup, Western India: Implications for the Provenance and Gold Metallogeny. Abstract V23B-2973 presented at 2016 Fall Meeting, [AGU](#), San Francisco, Calif., 11-15 Dec.
3. Khan, I., Sahoo, P R., Golani, P R and **Venkatesh A S** (2016). Geological controls, environment of formation and style of copper and gold mineralization in the Mundiawas-Khera area of Alwar district, Rajasthan, Western India. Paper **presented by Venkatesh A S** in the Mineral Deposits and Ore Forming Processes, session of 35th IGC, held from 27 August - 4 September, 2016, [Cape Town, South Africa](#).
- 4 Sahoo, P R., Singh, S and **Venkatesh A S** (2016). Genesis of gold mineralization in Kundarkocha gold deposit, Singhbhum Craton, eastern India: evidences from host rock geochemistry, Paper **presented by Venkatesh A S** in the Gold Mineralizing Systems session (jointly sponsored by SEG and SGA) of 35th IGC, held from 27 August - 4 September, 2016, [Cape Town, South Africa](#).
- 5 Chakravarti, R., Singh S., Mahanta S, Sahoo P R and **Venkatesh A S.** (2016). Source characterization of Quartz-Pebble Conglomerates within Gorumahisani-Badampahar Belt, Singhbhum-Orissa Iron Ore Craton, India: Implications for radioactive and gold mineralization. Paper presented by Chakravarti, R in the 13th Annual Meeting of Asia Oceania Geosciences Society (AOGS), held from 31 Jul to 5 Aug, [Beijing, China](#) SE21-A004.

- 6 Kumar, A., Sahoo P R and **Venkatesh, A S** (2016). Significance of sulfosalts within the Archean Kundarkocha Gold Deposit, eastern India. Paper presented by Kumar A in the 13th Annual Meeting of [Asia Oceania Geosciences Society \(AOGS\)](#), held from 31 Jul to 5 Aug, [Beijing, China](#) SE21-A026.
- 7 Sharma, J P., Mahanta, H., Sahoo P R, **Venkatesh A S** and Patil D J. (2016). Significance of sulfosalts within the Archean Kundarkocha Gold Deposit, eastern India. Paper presented by Sharma J P and Sahoo P R in the 13th [Annual Meeting of Asia Oceania Geosciences Society \(AOGS\)](#), held from 31 Jul to 5 Aug, [Beijing, China](#) SE21-A031.
- 8 Sengar, V K., **Venkatesh, A S.**, Ray, A K C., Chatteraj, S L and Sharma, R U (2016). Mineralogical mapping in the part of a gold prospect using EO-1 Hyperion data, extended abstract in Commission VI, WG VI/4, [Prague ISPRS](#) 2016 conference, held on July 18th, 2016, presented by Chatteraj, S L. and V Sengar (Part Time research student)
- 9 Prasad, A K., Sahoo, S., **Venkatesh A. S.**, Ana Vukovic, A. Univ. of Belgrade (Serbia); Nickovic, S, (2016). Republic Hydrometeorological Service (Serbia); Sprigg, W A The Univ. of Arizona (USA) Modeling of dust source over southwest USA using multisensor data. (2016) in [SPIE, ASIA-PACIFIC REMOTE SENSING](#) held in New Delhi 4–7 April 2016, presented by Prasad A K Abs No. 9877-21.
- 10 Mukherjee, R., Fareeduddin and Venkatesh, A. S. (2015). Gold mineralization in Paleoproterozoic Bhukia Gold Prospect, Rajasthan, Western India: Controls and genetic aspects. 12th Annual Meeting, [Asia Oceania Geosciences Society, Singapore](#). SE13-A013, p. 291.
- 11 Prasad, Jitendra., **Venkatesh, A S** and Chaturvedi, Lokesh (2014). Geological Aspects of Iron Ores from Kiriburu-Meghahatuburu: Implications for Exploration, Value Addition and Mining Operation. In 6TH National Seminar on Surface Mining, held at Indian School of Mines, Dhanbad, 10-11, Jan, 2014, Ed., Sen P and Choudhary, B S. M/s Power Print publ. ISBN: 978-93-5156-186-6. pp. 467-474.
- 12 Lipisudha Badapanda., Nayak B and **Venkatesh, A S** (2014). Mineralogical characterization of low grade iron ores from Daitari open cast mines, Odisha. In 6TH National Seminar on Surface Mining, held at Indian School of Mines, Dhanbad, 10-11, Jan, 2014, Ed., Sen P and Choudhary, B S. M/s Power Print publ. ISBN: 978-93-5156-186-6. pp. 45-52.
- 13 Chandan Karun Kumar, Jha Vandana, Khatun Mousoma, Sahendra Singh and **Venkatesh A S** and (2013). Geochemistry of Paleo to Mesoproterozoic metasedimentary units, Lawa-Mayasera Area, Chandil Formation, Eastern Indian Craton: Implications for provenance and source area weathering. [125th Annual Meeting, Geological Society of America, 27-30 October, 2013, Denver, Colorado, USA](#), Abs., 92-1; Session No. 92,

Clastic Sediment: Precambrian to Recent, Experimental to Applied studies. (Vandana Jha, Research student presented the paper at Colorado).

- 14 Singh, S., Satapathy, J S and **Venkatesh, A S** (2011). Implications of global scale crustal processes on exploration prospects of orogenic gold mineralisation. In 17th Convention of Indian Geological Congress and International Conference on New Paradigms of Exploration and Sustainable Mineral Development: Vision 2050, held in Nov. 10-12, 2011, Ed. Varma O P, Sarkar, B C, Varma A K, Mukherjee M K and Singh S. M/s Power Print publ. ISBN: 978-81-8465-954-2. Pp. 771-778.
- 15 Sanjoy Kumar Sarkar, Kundargi, G P, Sarita Kabi and **Venkatesh, A S.** (2011). Geological aspects of manganese mineralisation in Balaghat Mine: Implications on the exploration and mine development. In Sem. Vol., 2nd National Seminar on Underground Metal Mining: Status and Prospects (UMMSP), Ed., V M S R Murthy, U K Singh and B S Choudhary, Oct, 13-15, 2011, Power print publ., Dhanbad, ISBN No. 978-81-8465-863-7, pp. 95-102.
- 16 Sahendra Singh, **Venkatesh A S** and Chandan Karun Kumar (2011). Crustal evolution of Earth and it's control on global scale orogenic gold metallogeny. Pp. 21-9. Paper presented in International conference on Fragile Earth conducted by **The Geological Society of America held at Munich, Germany**, 4-7th September, 2011, Paper 18826. (Dr S Singh presented paper at Munich).
- 17 **Venkatesh, A S**, Mohapatra, P and Monalisa Das (2010). Environmental Geochemistry of Soil and Water Associated with Coal Overburden in Eastern Part of Jharia Coalfield. In Conf. Vol., National Conference *cum* Workshop on Geological and Technological Facets of CBM, Shale Gas, Energy Resources and CO₂ Sequestration, Ed. Varma A K., Dubey, R K., Sarkar, B C and Saxena, V K. Nov, 19-20, 2010, ISM, Dhanbad, Allied Publishers Pvt. Ltd., New Delhi, ISBN No.978-81-8424-643-8, pp., 149-153.
- 18 Sahendra Singh, **Venkatesh, A.S.** and Tirkey V. (2010). Environmental hazards due to Coal Mine Fire: A Geological perspective of Coal mine fire in Kuju area, Ramgarh district, Jharkhand. In Souvenir., National Conference *cum* Workshop on Geological and Technological Facets of CBM, Shale Gas, Energy Resources and CO₂ Sequestration, Nov, 19-20, 2010, ISM, Dhanbad, pp., M/S Power Print Publishers, Dhanbad. Abs. 25.
- 19 **Venkatesh, A S** and Anish T K (2008) Environmental geochemistry of Arsenic contamination in parts of western Bihar., Sem vol., National Seminar on Environmental Issues on geotechniques and mineral industry. Ed. Kumar and Dey, Aug, 4-8, Sindri, pp. 448-456.
- 20 Singh, S., **Venkatesh, A S** and Tirkey, V. 2008. A geodynamic model for the tectonic evolution of Sonakhan greenstone belt, Bastar Craton, Central India. Abs. in IV **Int conf. on the geology of Tethys, Cairo Univ., Egypt**, Nov. 2008, p. 5 (Dr S Singh presented paper Cairo).

- 21 Varma, A K., Mohanta, A., Singh A K., Mendhe V A., Asthana D and **Venkatesh A S.** (2007). Geological and Petrographic investigations for Carbon Dioxide Sequestration in Rajmahal Traps of Birbhum, West Bengal, In. Eds. Gurdeep Singh., David Laurence and Kuntala Lahiri-Dutt., 1st International Conference vol “ Managing the Social and Environmental Consequences of Coal Mining in India” held at Delhi in 2007, pp. 743-750.
- 22 Dubey, R. K and Venkatesh, A.S. (2007). Shock signature on Precambrian dykes of Tamil Nadu. In Natl. Sem. on Mapping and Modeling of Deep Crustal features using Geoelectromagnetics and other Geophysical Methods, Abs Volume, p. 30.
- 23 **Venkatesh A.S.** and Jose B (2007). Metallogenetic Evolution of the Gold Mineralisation in the Sakoli Group, Central India. In. Group Discussion on “Metallogeny, Crustal Evolution and Advanced Techniques in Ore Genesis, (held at IIT, Kharagpur from 9-10 March, 2007, Abs Volume, pp.9-10 as rapporteur.
- 24 Sarangi, A.K., **Venkatesh, A.S.**, Sarkar, B.C., Dash, D. R. and Rongmei, G. (2006). Nature of Uranium mineralisation and development of deposit at Turamdih, East Singhbhum District, Jharkhand. In. Eds. Murthy et al., Nat Sem. vol. Underground Metal Mines SP-2006 held from 13-14, Feb at ISM, pp. 3-9.
- 25 Varma, A. K., Bania, K., Saxena V. K and **Venkatesh, A.S.** (2006). Geological and Petrographic potentialities of Coal and Carbonaceous shale from Makum Coalfield, Assam for Petroleum generation. In Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006), Eds. Varma, A K, **Venkatesh, A.S.**, Dhar, Y.R and Saxena, V.K. publ. Allied Publisher, New Delhi, pp. 115-118.
- 26 Singh, S and **Venkatesh, A.S.** (2006). Metallogenetic Modelling of Gold Mineralisation in Sonakhan greenstone belt, Central India, In Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006), Eds. Varma, A K, **Venkatesh, A.S.**, Dhar, Y.R and Saxena, V.K. publ. Allied Publisher, New Delhi, pp. 145-150.
- 27 Roy, S., Das, A and **Venkatesh, A.S.** (2006). Characterisation of Iron ore slimes from different deposits: A Comparative study.. In Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006), Eds. Varma, A K, **Venkatesh, A.S.**, Dhar, Y.R and Saxena, V.K. publ. Allied Publisher, New Delhi, pp. 171-180.
- 28 Ragini, R., Singh, R.P., Varma, A.K and **Venkatesh, A.S.** (2006). Application of Fluid Inclusion Stratigraphy in Reservoir rock characterization of Bombay High and Lakwa oil fields: A preliminary appraisal. In Nat. Conf. on “ Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006), p. 30.
- 29 Nayak, B and **Venkatesh, A.S.** (2006). Heavy mineral distribution in the beach sands of Eastern coastal Orissa. In Nat. Conf. on “ Frontier Areas in Geological and Technological

aspects of Fossil Fuel and Mineral Resources (GTFM-2006), p. 38.

- 30 Mahato, N., Dhar, Y R and **Venkatesh, A.S.** (2006). Some aspects of arsenic contamination of ground water in parts of Gangetic plains of Bihar. In Nat. Conf. on “Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006), p. 40.
- 31 Singh, S., Sahoo, P., Asthana, D. and **Venkatesh, A .S.** (2005). Geology and Geochemistry of orogenic gold mineralisation in the Sonakhan Greenstone belt, Central India. Nat Sem. On Proterozoic System of India, held at ISM from 11-12, November, 2005.,p. 47.
- 32 Jose, B. and **Venkatesh, A.S.** (2005). Metallogenetic studies of Gold-Copper mineralisation in Pular-Parsori-Tuthanbori belt, Sakoli Group, Central India. Nat Sem. On Proterozoic System of India, held at ISM from 11-12, November, 2005.,p. 20.
- 33 Maiti S. K, Nandhini, S and **Venkatesh, A.S.** (2005). Evaluation of Bioremediation and related Environmental Geochemical aspects of Copper Mine Waste from Mosaboni, Eastern India. in International Conference volume on Mineral Processing Technology (MPT-2005), Tata McGraw Hill publ.,eds. Venugopal, R V., Sharma, T, Saxena, V K and Mandre, N R., 434-441.
- 34 **Venkatesh, A S**, Jose, B and Srinivas T (2004). Fluid - Rock Interactions within the Palaeoproterozoic Au Mineralization of the Sakoli Group, India. in the proc. Eleventh International Symposium on **Water-Rock Interaction**, Saratoga Springs, **New York**, held on June 27-July 2, 2004, **Eds. Wanty, R.B. and Seal II, R.R., publ. by Taylor and Francis Group, London** Proc. v.1, pp. 311-316. Prof Venkatesh presented paper at New York WRI. Received financial award for attending conf.
- 35 Singh, S and **Venkatesh, A S** (2004). Geodynamic Significance of Rajahmundry Traps; Andhra Pradesh, India. *In* 32nd **International Geological Congress, held in Florence. G05.08 under Tectonics of Shield Areas** (CD form).
- 36 Jose, B, **Venkatesh, A S** and Srinivas, T (2004). Metallogenetic controls of Gold-Copper mineralisation within Sakoli Group, Central India. *In* 32nd **International Geological Congress, held in Florence. G14.09 under Metallogeny of large and super large mineral deposits** (CD form).
- 37 Kumar, V, **Venkatesh, A S.**, Sharma, T. and Jahdav, G N (2002). Ore geological characterization of low-grade iron ore from Noamundi iron ore mines, Eastern India: An implication for beneficiation. Abs. Sem. Vol. International seminar on Mineral processing Technology at IISC, Bangalore held on Jan 3-5, 2003, pp.125.
- 38 Suresh, N, Tripathi, D and **Venkatesh, A.S.** (2001) Characterisation and beneficiation of Boula-Nusali chromites. International conf. “On challenges on coal and mineral beneficiation” held at ISM. Dec.7-8- 2001, pp.23-28. Tata McGraw-Hill Publ. Company

Ltd.

- 39 Venkatesh, A. S. (2001). Geochemical signatures and auriferous implications in Sonakahan greenstone belt, Chattisgarh. **Geol . Surv. India, Spl. publ** No.55. pp., 219-228 (Sem. Vol: Dr M S Krishnan Centenary Seminar on Precambrian of India, held at Kolkata).
- 40 Saha, I and **Venkatesh, A S**. (2000) Geological and structural aspects of gold mineralization at Archean Hutti-Maski Schist Belt, India {abs.}: **31st International Geological Congress, Rio de Janeiro, Brazil** 2000(in CD form).
- 41 **Venkatesh, A S** and Saha, I. (2000) Wall-rock alterations associated with gold mineralization in the Archean Hutti-Maski Schist Belt, South India {abs.}:**31st International Geological Congress, Rio de Janeiro, Brazil 2000** (in CD form).
- 42 Banik, R., Suresh, N., **Venkatesh, A S** and Mandre, N R (1994). Selective flocculation of low grade sulphides of Rangpo-Sikkim using cellulose xanthite. Abs. International symp. on Mineral Beneficiation-Recent trends and beyond 2000 AD, Oct 3-4 held at IBM, Nagpur.
- 43 Rai, K L and Venkatesh, A S (1990). Malanjkhand copper deposit: A petrological and geochemical appraisal. **GSI Spl. Publ.** No. 28, 563-584 (Precambrian of Central India held at Nagpur).
- 44 Rai, K L and **Venkatesh, A S** (1990). Geological setting, characteristics and genetic aspects of sulphide mineralization at Malanjkhand, Balaghat District, M.P. Abs. 7th IGC and Nat. Sem. 31-12-1989 to 2-1-1990 held at Bangalore.
- 45 Poornachandra Rao, G V S., **Venkatesh, A S** and Bhalla M S (1989). Palaeomagnetism and tectonics of the Sukinda valley, Orissa, SE India. Abs. In International Symp. on “ Structure and Dynamics of the Indian Lithosphere, held at NGRI, Hyderabad on Feb. 1-2, 1989.
- 46 Rai, K L., Venkatesh, **A S** and Jain, V K (1988). Ore microscopy and mineral paragenetic sequence of copper ores in Malanjkhand deposit, Balaghat District, M.P. Abs. In the Nat. Sem. On the Development of ore petrology and its impact on resource evaluation and mineral economics held at Andhra University, Visakhapatnam.
- 47 Rai, K L and **Venkatesh, A S** (1987). Regional geological setting of Malanjkhand type Cu-Mo deposit, Madhya Pradesh, India. Abs. Diamond Jubilee Nat. Symp. on “ Development of India’s Mineral and Fuel Resources: Geological and Environmental aspects” held at ISM, Dhanbad on 3 & 4, July, 1987.

Conferences/Seminars conducted: as Organizing Secretary

Conducted a National Seminar on “Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources (GTFM-2006) conducted in the capacity of Organizing Secretary, from 2-4, November, 2006 at ISM, Dhanbad and conference volume published as mentioned below.

Books published

Singh Sahendra and **Venkatesh A. S. (2012)**. Gold Mineralization within Sonakhan Schist Belt, Central India: Exploration Prospects and Metatectonic Implications, LAP Lambert Academic Publishing, Germany, p.240. [Paperback] ISBN-10: 3845411821 | ISBN-13: 978-3845411828, Price: \$106.00.

Conference volume/Book edited by Varma A K, **Venkatesh A S**, Dhar Y R and Saxena V K **(2006)**. “Frontier Areas in Geological and Technological aspects of Fossil Fuel and Mineral Resources” published by M/S Allied Publishers, New Delhi, p. 344.