

Dr. Sagar Kumar Swain, (Post.Doc, Ph.D, M.Tech, M.Sc, B.Sc)

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Research Interest: Mineral Exploration, Ore Geology, Isotope Geochemistry (stable, Radiogenic & REE), and Petrology.

Professional Career:

- 3-Years Post.Doc Experience at IIT(ISM) Dhanbad.
- Past Professional Experience at F.M. University, Balasore & NIT-Rourkela.

Instrumental Experience:

- Work experience in instrument like EPMA, IRMS for Stable Isotope, MC-ICPMS for Radiogenic Isotope, HR-ICP-MS for Trace & REE, XRF for Major Elements & etc.

Awards & Grants:

May 2016	Award: Elsevier Geochemical Society grants of \$865 dollars (US) for a fund to young scientists.
Apr 2016	Goldschmidt conference, Tokyo, Japan Grant: Goldschmidt conference grant to Tokyo, Japan
Oct 2015	Grant: SERB-DST International travel grant to GSA-2015 to Washington, USA
Aug 2016	Grant: BP Radhakrishna Grant from Geological Society of India
Aug-2019	Grant: SERB-DST International travel grant to Goldschmidt-2019 to Spain, Europe

Publications:

1. **Swain, S.K.**, Sarangi, S., Sarkar, A., Bhattacharya, S., Srinivasan, R., Patel, S.C., Pasayat, R.M., Sawkar, R. H., 2015. Isotope (C and O) composition of auriferous quartz-carbonate veins, central lode system, Gadag Gold Field, Dharwar Craton, India: Implications to source of ore fluids: *Ore Geology Reviews*, 70, pp. 305-320. (Impact factor- 3.9). (<https://doi.org/10.1016/j.oregeorev.2015.03.020>).
2. **Swain, S.K.**, Sarangi, S., Srinivasan, R., Sarkar, A., Mazumdar, A., Satyanarayana S., 2018. Stable Isotope (C-O-S) and geochemical studies of auriferous quartz-carbonate veins, Neoproterozoic Orogenic Ajjanahalli and Gadag Gold Field, Chitradurga Schist Belt, Dharwar Craton, South India: evidences for mantle origin of gold mineralizing fluids. *Ore Geology Reviews*, 95, pp. 456-479. (Impact factor- 3.9) (<https://doi.org/10.1016/j.oregeorev.2018.03.005>).
3. **Swain, S.K.**, Roy, P. N. S., Mukherjee, B., Sawkar, R. H., 2019. Fractal dimension and its translation into a model of gold spatial proxy *Ore Geology Reviews*, 110, pp. 1-10 (Impact factor- 3.9). (<https://doi.org/10.1016/j.oregeorev.2019.102935>).

International Conference Proceedings:

4. **Swain, S.K.**, Roy, P. N. S., Sawkar, R. H., 2019. Fractal dimension and its implication to mineral exploration. “**Goldschmidt Conference in Barcelona, Spain** (18th -23th Aug 2019)”
5. **Swain, S.K.**, Sarangi, S., Srinivasan, R., Sarkar, A., R., Mazumdar, A., 2017. Mantle/Juvenile Magmatic Source for Auriferous Ore Fluids of Hutti Gold Deposit, Hutti-Maski Greenstone Belt, Southern India: Evidence from C, O, S Isotopic Systematics. “**Goldschmidt Conference in Paris, France** (13th -18th Aug 2017)” (**Gold2017: abs: 1842**).
6. Sarangi, S., **Swain, S.K.**, Srinivasan, R., Sarkar, A., R., Mazumdar, A., Satyanarayanan, M., 2017. Isotope (C-O-S) and Geochemical Evidence of Juvenile Origin for the Neoproterozoic Orogenic Gold Deposits at Ajjanahalli and Gadag Gold Field, Chitradurga Schist Belt, Dharwar Craton, India “**Goldschmidt Conference in Paris, France** (13th -18th Aug 2017)” (**Gold2017: abs: 2674**).
7. **Swain, S.K.**, Sarangi, S., Srinivasan, R., Sarkar, A., R., Mazumdar, A., Satyanarayanan, M., 2016. Stable isotope (C-O-S) and REE study of BIF hosted Ganjur gold deposit, Neoproterozoic Dharwar craton, Karnataka, India: Evidence for Mantle/Magmatic source of mineralizing fluid. “**Goldschmidt Conference in Yokohama, Japan** (26th June -1st July 2016)” (**Gold2016: abs: 96**).
8. Sarangi, S., Srinivasan, R., Behera, D., **Swain, S.K.**, Hegde, V.S., Nutman Allen, P., 2016. A Critique of Sutured Cratonic Blocks in the Archean Dharwar Craton of Southern India. **Goldschmidt Conference in Yokohama, Japan** (26th June -1st July 2016)” (**Gold2016: abs: 806**).
9. **Swain, S.K.**, Sarangi, S., Srinivasan, R., Mazumdar, A., Satyanarayanan, M., 2015. Sulfur isotope and REE Geochemical studies of auriferous quartz carbonate veins from central lode

system, Gadag gold field, Dharwar craton, India: implications on source of ore fluids “2015 GSA Annual Meeting in **Baltimore, Maryland, USA (1-4 November 2015)**”. **Geological Society of America. Vol. 47, No. 7, p.243.**

10. Swain. S.K., Sarangi. S., Sarkar. A., Patel, S.C., Srinivasan. R., Sawkar. R. H., **2013.** $\delta^{13}\text{C}_{\text{CO}_2}$ and $\delta^{18}\text{O}_{\text{H}_2\text{O}}$ composition of fluids calculated from carbonate $\delta^{13}\text{C}_{\text{Pdb}}$ and $\delta^{18}\text{O}_{\text{smow}}$ data of quartz carbonate veins of Gadag gold deposits, Chitradurga Schist Belts: Implication to the source of auriferous fluids. In Abstract volume “**Annual General Meeting of the Geological Society of India and International Conference on “Future challenges in Earth Sciences for Energy and Mineral Resources (ESEMR 2013).**

11. Swain. S.K., Sarangi. S., Sarkar. A., Srinivasan. R., Vasudev, V.N., **2014.** Stable Isotope ($\delta^{13}\text{C}$ and $\delta^{18}\text{O}$) Composition of Carbonates of Auriferous Quartz Carbonate Veins, Chigargunta and Bisanattam Gold Deposits, South Kolar Schist Belts: Implication To Source of Ore Fluids (30th International Conference on “**Ore Potential of Alkaline, Kimberlite and Carbonatite Magmatism**” PROGRAMME (29 September-02 October 2014, Antalya, Turkey)

12. Sarangi. S., Swain. S.K., Sarkar. A., Srinivasan. R., **2014.** Isotope Studies in Archaean Orogenic Gold Deposits, with a special reference to Chitradurga Schist Belt”, Dharwar Craton. **International seminar on sedimentary processes and metallogeny through time (SMPT-2014).**

13. Swain. S.K., Sarangi. S., Sarkar. A., Patel, S.C., Srinivasan. R., Sawkar. R. H., **2014.** Stable isotope (C & O), geochemical and petrographic studies of orogenic gold deposits, Sangli mine area, Gadag schist belt, Karnataka: implications to source of ore fluids **Magmatism, Tectonism and Mineralization (MTM-2014).**