

# CURRICULUM VITAE

## Dr. Sagar Ku Swain

### CAREER OBJECTIVE:

To utilize my skill for dedicated hard work to develop research activity and to enhance my skill with strong emphasis on collaboration and team work.

### AREA OF INTEREST:

Geochemistry & Mineral Exploration

### PUBLICATION HIGHLIGHTS:

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, Q1 Journal**).
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, Q1 Journal**).
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, Q1 Journal**).
4. Mishra. D.P. & **Swain. S.K.** 2020. Global trends in reserves, production and utilization of iron ore and its sustainability with special emphasis to India *Journal of Mines, Metals & Fuels*, vol. 68, pp. 11-18.
5. **Swain. S.K.**, Sarangi. S., Sarkar. A., Srinivasan. R., 2013. Role of mantle/magmatic derived auriferous fluid for Archean orogenic gold deposits from Sangli mine area, Gadag Schist Belt, South India: evidence from C-O stable isotope and fluid inclusion study. *Central European Geology*, vol. 56, pp. 81-82.
6. **Swain, S.K.**, Roy, P. N. S., 2024. Fractal dimension and its implication to Mineral Exploration: A case study from Ajjanahalli & Gadag gold deposits in India. Geological society of London (**Impact factor- 2.6, Q1 Journal**).

## **CONFERENCE PROCEEDINGS:**

1. Sarangi, S., Stein, H., Srinivasan, R., **Swain, S.K.**, Vasudev, V.N., 2020. Re-Os Dating of Auriferous LLHR Pyrite and SHRIMP U-Pb Zircon Age for Host Granitoids: Implications for the Origin of the Jonnagiri Gold Deposits, Dharwar Craton, Southern India. **“Goldschmidt Conference in Honolulu, USA (21th -26th June 2020) Gold2020: abs: 2282).**
2. **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) Gold2019: abs: 3280).**
3. **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 (13<sup>th</sup> -18<sup>th</sup> Aug 2017)” (Gold2017: abs: 1842).**
4. 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 (13<sup>th</sup> -18<sup>th</sup> Aug 2017)” (Gold2017: abs: 2674).**
5. **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 (26<sup>th</sup> June -1<sup>st</sup> July 2016)” (Gold2016: abs: 96).**
6. 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 (26<sup>th</sup> June -1<sup>st</sup> July 2016)” (Gold2016: abs: 806).**
7. **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.**

8. **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).**”
9. **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 **p.192**))
10. 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).**
11. **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).**