

## **JINIA NANDY**

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## **EDUCATION**

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2022 (December)-till now: **Need based Assistant professor** in Geology department P.P.K. Bundu College, Ranchi University.

2018- 2022 (November): **Need based Assistant professor** in University Department of Geology, Ranchi University.

2015-2017: **Post Doctorate**, Principal investigator of **Fast Track DST project**.

2009-2014: **Ph.D** in Igneous Geochemistry (Applied Geology) from IIT, Indian School of Mines, Dhanbad, Jharkhand.

2007 – 2009: **M.Tech** in Petroleum exploration from IIT, Indian School of Mines, Dhanbad, Jharkhand, with 85.1% marks (Rank 2<sup>nd</sup>).

2005 – 2007: **M.Sc. in Applied Geology** from Department of Geological Sciences, **Jadavpur University**, West Bengal, India, with **70.18%** marks.

2002 – 2005: **B.Sc. in Geology** from Department of Geological Sciences, **Jadavpur University**, West Bengal, India, with 68.88 % marks.

2002: **Higher Secondary** in Science, West Bengal Board, with 81.4%.

2000: **Madhyamik**, West Bengal Board, with 86.75%.

## **DST PROJECT TITLE**

**Geochemistry and petrogenesis of different granitoid suites associated with the Tsundupalle greenstone belt, eastern Dharwar craton (EDC), south India: implications for crustal evolution during Archaean.**

Young Scientist Fellow in Applied Geology Department of Indian School of Mines, Dhanbad.

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## **Ph.D. DISSERTATION TITLE**

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**Study of Kadiri greenstone belt and adjacent granitoids, Eastern Dharwar craton, southern India: Petrogenesis and tectonic setting.**

Supervisor:

Dr. Sukanta Dey (Associate Professor, Department of Applied Geology, Indian School of Mines, Dhanbad).

### **M.Tech THESIS TITLE**

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#### **Estimation of water saturation using resistivity independent methods.**

Supervisor:

Dr. Rima Chatterjee (Associate Professor, Department of Applied Geology, Indian School of Mines, Dhanbad).

### **RESEARCH INTEREST**

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I specialize in the study of igneous rock and their geochemical properties. My interest includes in field study, petrography study and geochemistry including major and trace elemental, zircon U-Pb dating, Sm-Nd isotopic study, EPMA studies and lastly tectonic evolution of those suites of rocks. These analyses also help to evaluate petrogenesis of those rocks and their evolution through time.

### **PUBLICATIONS**

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1. Dey, S., **Nandy, J.**, Choudhary, A.K., Yongsheng, L. and Keqing, Z. (2013) Neoproterozoic crustal growth by combined arc-plume action: Evidences from Kadiri greenstone belt, Eastern Dharwar craton, India. **Geological Society Of London, Special Publication “Continent formation through time”**, v. 389(1), 135-163, (IF-3.46).
2. Dey, S., **Nandy, J.**, Choudhary, A.K., Yongsheng, L and Keqing, Z (2014) Origin and evolution of granitoids associated with the Kadiri greenstone belt, eastern Dharwar craton: a history of orogenic to anorogenic magmatism. **Precambrian Research**, v. **246**, p. **64-90**, (IF-4.918).
3. **Nandy J.** and Dey S. (2013) Petrography and geochemistry of Kadiri greenstone belt and their implications. **Indian Journal of Geological Congress**, v. 5(2).
4. Dey, S., Halla, J., Kurhila, M., **Nandy, J.**, Heilimo, E. and Pal, S. (2016) Geochronology of Neoproterozoic granitoids of the NW eastern Dharwar craton: implication for crust formation. **Geological Society of London Special Publication**, 449 (1),89-121, doi:10.1144/SP449.9.
5. Dey, S, Mitra, A., **Nandy, J.**, Mondal, S., Topno, A., Liu, Y., and Zong, K. (2017) “Early crustal evolution as recorded in granitoids of the Singhbhum and western Dharwar cratons”

submitted in Martin van Kranendonk, Victoria Bennet, Elis Hoffman (ed.) **Elsevier Book, Earths Oldest Rocks** (Second Edition), 2019, 741-792.

6. **Nandy, J.**, Dey, S. and Heilimo, E. (2019) Neoarchean magmatism through arc and lithosphere melting: evidence from Eastern Dharwar Craton. **Geological Journal** (Special Volume), 54, 3148-3166

### **Conference Presentation:**

1. **Nandy, J.** and Dey, S. (2012) Field setting, geochemistry and geochronology of the Kadiri greenstone belt, eastern Dharwar craton, India: Evidences for Neoarchean crustal growth by joint arc-plume processes. **Abstract volume In IGCP-SIDA 599 meeting and field trip to the Early Archean Dniester-Bug Complex southern in Ukraine.**

2. Nandy, J. and Dey, S. (2017) Neoarchean magmatism through arc and lithosphere melting: evidence from Eastern Dharwar craton. **Goldschmidt Conference, 2017 in Paris, France.**

3. **Nandy, J.** and Dey, S. (2013) Evolution of Kadiri granitoid-greenstone belt, eastern Dharwar craton, India. Abstract selected in **International conference on future challenge in Earth science for energy and mineral resources.**

4. **Nandy, J.** and Dey, S. (2013) Petrogenesis and tectonic evolution of Kadiri-granitoid-greenstone belt, eastern Dharwar Craton. **Modern Geological and geophysical methods and their applications (IGU).**

### **HONORS AND ACTIVITIES**

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- Got Young scientist fellowship of DST Fast Track project, March, 2015.
- International Seminar and paper presentation at – IGCP-SIDA 599- Meeting & Field trip to the early Archean Dniester-Bug Complex in Southern Ukraine, 2012.
- Got First class **2<sup>nd</sup> position in M.Tech**, 2009.
- **All India Rank 70<sup>th</sup>** in Graduate Aptitude Test for Engineering (**GATE**) examination, 2005.

### **PROFESSIONAL EXPERIENCES**

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#### **TEACHING:**

- Two months teaching experience in Ashutosh College, Geology Department as a full time contractual post (3/11/2014-31/12/2014).
- Assisted in practical classes of igneous, sedimentology, hand specimen, and structural for Msc.Tech and integrated Msc.Tech course (lab) in Indian School of Mines, Dhanbad.
- Assisted many Msc.Tech students towards the completion of their dissertation works.

## **FIELD:**

- Accomplished detailed field work as a part of Ph.D. program in south India. The field work included detail lithological and structural mapping, identification of different lithology and their association in outcrop scale.
- Participated in fieldworks that cover wide areas of geology which includes-
  - ↳ Geological mapping and study of igneous rocks in Maithon area, Burdwan District, West Bengal, 2002-03
  - ↳ Study and Geological mapping of metamorphic marble terrain in Jabalpur, M.P, 2003-04
  - ↳ Study of modern depositional environment in Chandipur Tidal flat, Orissa, 2004-05
  - ↳ Structural Mapping of metasedimentary sequences in and around Ghatshila, Jharkhand, 2005-06
  - ↳ Visit to O.N.G.C Rajahmundry to study about the drilling operations and the work at the base station and to study the different stratigraphic formations, Andhra Pradesh, 2006-07
- ↳ Industrial training in Oil India Limited and ONGC, Dehradun, 2008(M.Tech).

## **TECHNICAL SKILLS**

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- ↳ Textural analysis with Leica DMLP **polarized light microscope** fitted with an image analyzer (DC300FX camera and Leica QWIN software for image analyses).
- ↳ Familiar with sample preparation for **Inductively Coupled Plasma Mass Spectrometer (ICPMS) analysis** for open and closed digestion
- ↳ Samples prepare for **Thermal ionization mass spectrometer (TIMS) analysis** for granite and basalt rocks
- ↳ Experienced in sample preparation method for **XRF**.

## **SOFTWARES**

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<b>Geochemical</b>	: GCD tool kit, Tri Draw
<b>Digitization and mapping</b>	: AutoCad, Corel, Surfer
<b>Other software</b>	: Microsoft Office, Adobe Photoshop

## **REFERENCES**

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**Dr. Sukanta Dey**

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**Prof. Talat Ahmed**

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