

**DR. SAMEER K. TIWARI, SCIENTIST-B, WIHG, DEHRADUN, INDIA**



**Google Scholar**

**Page:**[https://scholar.google.co.in/citations?hl=en&user=4j48YocAAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.co.in/citations?hl=en&user=4j48YocAAAAJ&view_op=list_works&sortby=pubdate). (CTRL+CLICK to follow link)

**RESEARCH GROUP: PETROLOGY AND GEOCHEMISTRY**

**FIELD OF SPECIALIZATION: OROGENIC CARBON DI OXIDE DEGASSING; ISOTOPE GEOCHEMISTRY; CLIMATE CHANGE.**

**EDUCATION:**

Details of educational qualifications starting from the most recent ones.

| Sr. NO | Examination/<br>Degree | Year | Division                                                                                       | %/<br>Mark/<br>Grade | University/<br>College/<br>Board | Distinction/<br>scholarship |
|--------|------------------------|------|------------------------------------------------------------------------------------------------|----------------------|----------------------------------|-----------------------------|
| 01.    | PhD                    | 2015 | Wadia Institute of Himalayan geology and University of petroleum and energy studies, Dehradun. |                      |                                  |                             |
| 02.    | M.Sc.(Geology)         | 2007 | First                                                                                          |                      |                                  |                             |
| 03.    | B.Sc.(H)               | 2004 | First                                                                                          |                      |                                  |                             |

**PROFESSIONAL EXPERIENCE:**

Details of professional experience starting from the most recent position.

| Sr. No. | Name of organization                                 | Position    | From       | To       | Nature of duty           |
|---------|------------------------------------------------------|-------------|------------|----------|--------------------------|
| 05      | Petrology and Geochemistry Group, Wadia Institute of | Scientist-B | Sept, 2017 | Continue | Research and development |

|  |                                                                    |                        |                             |  |                             |
|--|--------------------------------------------------------------------|------------------------|-----------------------------|--|-----------------------------|
|  | Himalayan Geology                                                  |                        |                             |  |                             |
|  | Centre for Glaciology,<br>Wadia Institute of<br>Himalayan Geology, | Project<br>Scientist-B | April,<br>2013-<br>Sep-2017 |  | Research and<br>development |

**VISITING POSITIONS:**

**TEACHING EXPERIENCE:**

**SERVICES:**

**a. Supervision/Guidance to Ph.D. Students:** 02 Students

**b. Training:**

**c. Teaching:**

**d. Membership:**

**e. Editorial Board:**

**f. International/National Seminars/Workshop:**

*Convened three (03) National Geo-Research Scholars meet at WIHG*

**g. External Research Fund received & Project Handled:**

**h. Member of important Committees:**

**AWARDS/FELLOWSHIPS/HONORS/MEMORIAL LECTURES:**

**a. Awards/Medals/Prizes:**

Best Research Paper award (Geothermics, 2016) for the year 2016 from Wadia Institute of Himalayan Geology (Certificate enclosed). (IF- 3.470)

**b. Fellowships:**

**c. Memorial Lectures:**

**d. Recognition/Honors:**

**COUNTRIES VISITED: Thailand,**

## NATIONAL/INTERNATIONAL (outside CSIR-NGRI) COLLABORATION:

Inside WIHG Collaborator:

PATENT -

SCHOLARSHIPS AWARDED, GATE

PH.D. ADVISOR:

### LIST OF PUBLICATIONS

#### (a) SCI Papers

---

#### 2020

(27). Singh, Praveen Chandra, Himanshu K. Sachan, Aditya Kharya, Franco Rolfo, Chiara Groppo, Saurabh Singhal, **Sameer K. Tiwari**, and Shashi Ranjan Rai. "Tectono-metamorphic evolution of the Karakoram Terrane: Constrained from P–T–t–fluid history of garnet-bearing amphibolites from Trans Himalaya, Ladakh, India." *Journal of Asian Earth Sciences* (2020): 104293. (I.F.-2.762)

(26). **Tiwari, S. K.**, Gupta, A. K., & Asthana, A. K. L. (2020). Evaluating CO<sub>2</sub> flux and recharge source in geothermal springs, Garhwal Himalaya, India: stable isotope systematics and geochemical proxies. *Environmental Science and Pollution Research*, (**Springer-NATURE**) 1-18. (I.F.-3.208)

---

#### 2019

(25). Saravanan, P., Gupta, A. K., Zheng, H., Panigrahi, M. K., **Tiwari, S. K.**, Rai, S. K., & Prakasam, M. (2019). Response of shallow-sea benthic foraminifera to environmental changes off the coast of Goa, eastern Arabian Sea, during the last~ 6100 cal yr BP. *Geological Magazine*, 1-9. (I.F.-2.49)

(24). Kharya, A., Sachan, H. K., Santosh, M., Singh, S. K., & **Tiwari, S. K.** (2019). Isotopic fingerprinting of fluid circulation at the terminal stage of the Himalayan orogeny: An example from the Himalayan forearc basin, Indus Tsangpo suture zone, Ladakh, India. *Journal of Earth System Science*, 128(5), 138. (I.F. - 0.955).

(23). Kumar, A., Bhambri, R., **Tiwari, S. K.**, Verma, A., Gupta, A. K., & Kawishwar, P. (2019). Evolution of debris flow and moraine failure in the Gangotri Glacier region, Garhwal Himalaya: Hydrogeomorphological aspects. *Geomorphology*, 333, 152-166. (I.F.-3.680)

(22). Bhambri, R., Hewitt, K., Kawishwar, P., Kumar, A., Verma, A., **Tiwari, S. K.**, & Misra, A. (2019). Ice-dams, outburst floods, and movement heterogeneity of glaciers, Karakoram. **Global and Planetary Change**. (I.F- 4.100)

(21). Yadav, J. S., Pratap, B., Gupta, A. K., Dobhal, D. P., Yadav, R. B. S., & **Tiwari, S. K.** (2019). Spatio-temporal variability of near-surface air temperature in the Dokriani glacier catchment (DGC), central Himalaya. *Theoretical and Applied Climatology*, 136(3-4), 1513-1532. (IF- **2.720**).

---

**2018**

---

(20). Shipika Sundriyal, Tanuj Shukla, Lekhendra Tripathy, Dwarika Prasad Dobhal, **Sameer Kumar Tiwari**, Uday Bhan. Deposition of atmospheric pollutant and their chemical characterization in snow pit profile at Dokriani Glacier, Central Himalaya. *Journal of Mountain Science*. v-15, issue-10, pp-2236-2246 (IF- **1.135**)

(19) Saumik Samantaa, Tarun K. Dalai, **Sameer K. Tiwari**, Santosh K. Rai. [Quantification of source contributions to the water budgets of the Ganga \(Hooghly\) River estuary, India](#). *Marine Chemistry*. (IF-**3.337**)

(18). Amit Kumar, Anil K Gupta, Rakesh Bhambri, Akshaya Verma, **Sameer K Tiwari**, AKL Asthana. [Assessment and review of hydrometeorological aspects for cloudburst and flash flood events in the third pole region \(Indian Himalaya\)](#). *Polar Science*, 2018. (IF-**1.031**)

(17). Jairam Singh Yadav, Bhanu Pratap, Anil K Gupta, DP Dobhal, RBS Yadav, **Sameer K Tiwari**. Spatio-temporal variability of near-surface air temperature in the Dokriani glacier catchment (DGC), central Himalaya. *Theoretical and Applied Climatology*, 2018. (IF- **2.72**)

(16). Akshaya Verma, Amit Kumar, Anil K. Gupta, **Sameer K. Tiwari**, Rakesh Bhambri, Suneet Naithani. Hydroclimatic significance of stable isotopes in precipitation from glaciers of Garhwal Himalaya, Upper Ganga Basin (UGB), India. *Hydrological Processes*, 2018. (IF- **3.181**)

(15). **Sameer K. Tiwari**, Amit Kumar, Anil K. Gupta, Akshaya Verma, Rakesh Bhambri, Shipika Sundriyal, Jairam Yadav. Hydrochemistry of meltwater draining from Dokriani Glacier during early and late ablation season, West Central Himalaya. *Himalayan Geology*, Vol-39 (1) (2018). pp-121-133. (IF- **0.410**)

(14). Rakesh Bhambri, Anshuman Misra, Amit Kumar, Anil Kumar Gupta, Akshaya Verma, **Sameer K. Tiwari**. "Glacier Lake inventory of Himachal Pradesh, India". *Himalayan Geology*, Vol-39 (1) (2018). pp-1-33. (IF- **0.410**)

(13). Kumar, Amit, **Sameer K. Tiwari**, Akshaya Verma, and Anil K. Gupta. "Tracing isotopic signatures ( $\delta D$  and  $\delta^{18}O$ ) in precipitation and glacier melt over Chorabari Glacier–

Hydroclimatic inferences for the Upper Ganga Basin (UGB), Garhwal Himalaya." *Journal of Hydrology: Regional Studies* 15 (2018): 68-89.

---

2017

---

(12) S. & Sharma N.K. Maurya, U.K., Rai, S.K., Bartarya, S.K., Kumar, A., Kumar, A., Tiwari, Sameer., Thakur, D. Hydrological behaviour of natural springs/streams in mid hills of Chakrata Himalaya, India. Proceedings of the International Ground Water Conference in New Delhi (11-113 Dec. 2017), 367, **IGCW-Full Paper**.

(11). Sachan, Himanshu Kumar, Aditya Kharya, P. Chandra Singh, Franco Rolfo, Chiara Groppo, and **Sameer K. Tiwari**. "A fluid inclusion study of blueschist-facies lithologies from the Indus suture zone, Ladakh (India): Implications for the exhumation of the subduction related Sapi-Shergol ophiolitic mélangé." *Journal of Asian Earth Sciences* (2017).

(IF- 2.762)

---

2016

---

(10). **Tiwari, Sameer K.**, Santosh K. Rai, Sukesh K. Bartarya, Anil K. Gupta, and Manju Negi. "Stable isotopes ( $\delta^{13}\text{C}$  DIC,  $\delta\text{D}$ ,  $\delta^{18}\text{O}$ ) and geochemical characteristics of geothermal springs of Ladakh and Himachal (India): Evidence for  $\text{CO}_2$  discharge in northwest Himalaya." *Geothermics* 64 (2016): 314-330. (IF- 3.470)

(09) Kharya, Aditya, H. K. Sachan, **Sameer K. Tiwari**, Saurabh Singhal, P. Chandra Singh, Santosh Rai, Sushil Kumar, Manish Mehta, and P. K. R. Gautam. "New occurrence of albitite from Nubra valley, Ladakh: characterization from mineralogy and whole rock geochemistry." *Current Science* (00113891) 111, no. 9 (2016). (IF- 0.756)

(08). **Tiwari, S. K.**, S. K. Bartarya, S. K. Rai, Anil K. Gupta, and A. K. L. Asthana. "Isotopic and geochemical studies of groundwater from the Ramganga basin and the middle Ganga Plains: implication for pollution and metal contamination." *Environmental Earth Sciences* 75, no. 16 (2016): 1170. (IF- 1.765)

(07). Sources of water in the Ganga (Hooghly) River estuary, India. TK DALAI, S SAMANTA, **S. K TIWARI**, *Goldschmidt* 2016, 588.

---

2015

---

(06). Rai, Santosh K., **Sameer K. Tiwari**, Aditya Kharya, Manju Negi, and A. K. Gupta. "A Laser Based Fluorination (BrF<sub>5</sub>) System for the Extraction of Oxygen (O<sub>2</sub>) from Silicate Rocks of Himalaya and δ<sup>18</sup>O Measurements: Method Establishment and Implications." *Mapan* 30, no. 3 (2015): 221-230. (IF- 0.280)

(05). Asthana, A. K. L., Anil K. Gupta, Khayingshing Luirei, S. K. Bartarya, S. K. Rai, and **S. K. Tiwari**. "A quantitative analysis of the ramganga drainage basin and structural control on drainage pattern in the fault zones, Uttarakhand." *Journal of the Geological Society of India* 86, no. 1 (2015): 9-22. (IF- 0.994)

(04). Rai, Santosh K., **Sameer K. Tiwari**, S. K. Bartarya, and Anil K. Gupta. "Geothermal systems in the Northwest Himalaya." *Current Science* 108, no. 9 (2015): 1597. (IF- 0.756)

(03).Ganguly, S., **Sameer. K. Tiwari**, U. Bhan, S. Mittal, S. Rai, and E. F. Osta. "Melting of Sea Ice Inexplicable for Recent Global Eustatic Sea Level Rise." *Journal of Earth Science & Climatic Change* 6, no. 1 (2015): 1.

(02). **Tiwari, Sameer K.**, RAJK SINGH, Jayendra Singh, Anil K. Gupta, S. K. Bartarya, and S. K. Rai. "Impact of limestone mining activities on major ion geochemistry of Krem Markhyrdop water, Meghalaya, India." *HIMALAYAN GEOLOGY* 36, no. 1 (2015): 74-80. [2014] (IF- 0.410)

(01). Sameer K. Tiwari. [Isotopic and Geochemical Studies of Geothermal Springs of North West Himalayas India Implication for Source and Degassing of Metaphoric CO<sub>2</sub>](#)

Unpublished Ph.D Thesis. University of Petroleum and Energy Studies, Dehradun, India. (ir.inflibnet.ac.in).

**(b) Non-SCI Articles**

**(c) Chapter in Books**

**(d) Books-authored/Edited volume:**

**(e) Abstract volume:**

**(f) Reports/Other Documents:**

**(g) Articles in Proceeding Volumes**