

# Curriculum vitae

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## **Pawan Kumar, Ph.D.**

Distt. Bhiwani (Hr.), India

Mob: 6280170696, 9805646180

Email: [pawan.evs@gmail.com](mailto:pawan.evs@gmail.com)



## **Education**

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- **Educational qualification:** M.Sc., M.Phil., Ph.D., SLET, NET (Environmental Science)
- **Topic of Ph.D.:** Hydro-geochemistry and contamination history of Western Himalayan lakes in Himachal Pradesh, India.
- **Topic of M.Phil.:** Plant biodiversity study at Aravalli hill range in Khanak (crusher zone) of District Bhiwani, Haryana: Its ecological and social aspects.
- **Teaching experience:** 04 years

## **Research interest**

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- Water Resource Management
- Hydro-geochemistry
- Palaeoclimate
- Wastewater treatment
- Plant biodiversity

## **Reviewer of the journal**

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- Water Resource Management (Springer Nature).
- Iranian Journal of Earth Sciences (Scopus indexed).
- Arabian Journal of Geosciences (Springer Nature).
- Waste Management (Elsevier).
- Environmental Science and Pollution Research (Springer Nature).
- Journal of South American Earth Sciences (Elsevier)

- Environmental Earth Sciences (Springer)
- Environmental Monitoring and Assessment (Springer)

## Software/instruments exposure

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- ERDAS and ArcGIS
- SPSS, Surfer, Grapher, Corel-DRAW
- Ion-chromatography, AAS, Spectrophotometer, MASW
- XRF, Flame-photometer, FTIR, etc.

## Recent Publications (Total-24)

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### A. Research articles published/communicated in SCI/SCOPUS/Refereed journals

- Kumar A, Dhiman V, **Pawan Kumar**, Pant D (2021). Effects of piperazine and EDTA in garden snail towards electrolytic variation and antimicrobial activities. *Environmental Sciences and Pollution Research*, 28(29): 1-15 (**Springer**).
- Mahajan AK, Kumar P, **Pawan Kumar** (2021). Near surface seismic site characterization using Nakamura based HVSR technique in the geological complex region of Kangra Valley, northwest Himalaya, India. *Arabian Journal of Geosciences*, 14:826 (**Springer**).
- Kumar A, Shashni S, **Pawan Kumar**, Pant D, Singh A, Verma RK (2021). Phytochemical constituents, distributions and traditional usages of *Arnebia euchroma*: A review. *Journal of Ethnopharmacology*, 271, 113896 (**Elsevier**).
- **Pawan Kumar**, Mahajan AK, Kumar P (2020). Determining limiting factors influencing fish kills at Rewalsar Lake: a case study with reference to Dal Lake (McLeodganj), western Himalaya, India. *Arabian Journal of Geosciences*, 13:872 (**Springer**).
- **Pawan Kumar**, Mahajan AK (2020). Trophic status and its regulating factor determination at the Rewalsar Lake, northwest Himalaya (HP), India, based on selected parameters and multivariate statistical analysis. *SN Applied Sciences*, 2: 1266 (**Springer**).

- Diwate P, Meena NK,... **Pawan Kumar** (2020). Sedimentation rate ( $^{210}\text{Pb}$  and  $^{137}\text{Cs}$ ), grain size, organic matter and bathymetric studies in Renuka Lake, Himachal Pradesh, India. *Himalayan Geology*, 41(1): 51-62 (Scopus, WoS; **WIHG**).
- **Pawan Kumar**, Mahajan AK, Kumar A (2020). Groundwater geo-chemical facie: Implications of rock-water interaction at the Chamba city (HP), north-west Himalaya, India. *Environmental Science and Pollution Research*, 27: 9012–9026 (**Springer**).
- **Pawan Kumar**, Meena NK, Diwate P, Mahajan AK, Bhushan R (2019). The heavy metal contamination history during ca 1839-2003 AD from Renuka Lake of Lesser Himalaya, Himachal Pradesh, India. *Environmental Earth Sciences*, 78:549 (**Springer**).
- **Pawan Kumar**, Meena NK, Mahajan AK (2019). Major ions chemistry, catchment weathering and water quality of Renuka Lake, north-west Himalaya, India. *Environmental Earth Sciences*, 78:319 (**Springer**).
- Kumar P, **Pawan Kumar** (2019). Removal of Cadmium (Cd-II) from aqueous solution using gas industry based adsorbent. *SN Applied Science*, 1:365 (**Springer**).
- **Pawan Kumar**, Mahajan AK, Meena NK (2019). Evaluation of trophic status and its controlling factors in Renuka Lake of Lesser Himalaya, India. *Environmental Monitoring and Assessment*, 191:105 (**Springer**).
- **Pawan Kumar**, Meena NK, Mahajan AK (2018). Hydrochemistry and water quality of Rewalsar Lake of lesser Himalaya, Himachal Pradesh, India. *Environmental Monitoring and Assessment*, 190(2):84 (**Springer**).
- **Pawan Kumar**, Devi R (2017). Plant Species Composition and Diversity at the Aravalli Mountain Range in Haryana, India. *Journal of Biodiversity*, 8(1):34-43. (**Taylor & Francis**).
- Sarkar S, Prakasam M,.. **Pawan Kumar**, Meena NK (2016). Rapid sedimentation history of Rewalsar Lake, Lesser Himalaya, India during the last fifty years - Estimated using  $^{137}\text{Cs}$  and  $^{210}\text{Pb}$  dating techniques: A comparative study with other North-Western Himalayan Lake. *Himalayan Geology*, 37(1):1-7 (**Scopus, WoS; WIHG**).
- **Pawan Kumar**, Mahajan AK (2021; under process). A review of microplastic as the most hazardous material in freshwater and marine environment: Source, determination, abundance, impacts and fate. *Journal of Hazardous Materials* (**Elsevier**).

- **Pawan Kumar**, Mahajan AK (2021; under review). Hydro-geochemical facie and solute acquisition in two different north-western Himalayan lakes, India. *Earth. Sys. Sci.* (Springer).
- **Pawan Kumar**, Mahajan AK, Pant D,.. (2021; under review). A systematic short review of biosorption trend and feasibility to remove heavy metals in aqueous environment: Limitations and future perspective. *Water, Air, & Soil Pollution* (Springer).

#### **B. Book/conference proceeding/book chapter**

- **Pawan Kumar** (2013). *Prayavaran Adhayayan*, Printed in India. pp. 223. ISBN: 9789353515621.
- **Pawan Kumar** (2013). *Energy scenario in India and its future perspectives with references to sustainable development*. Twenty first century printing press, Patiala, India. ISBN: 9789380145372.
- **Pawan Kumar**, Kumar P, Kumar P (2013). *Biotechnology and its approaches to sustainable development with reference to environment*. ISBN: 9788192094533.
- **Pawan Kumar**, Meena NK, Mahajan AK (2021). *The climatic and anthropogenic influences on Himalayan glacial and non-glacial lakes: A review*. In Quaternary climate change over the Indian Subcontinent, CRC Press, Taylor and Francis Group. ISBN: 9781003083238.

#### **C. Paper presented in recent conference/seminar (Total-17)**

- Mahajan AK, Kumar P, **Pawan Kumar** (2019). Resilience infrastructure in Himalayan region: A need, not luxury, World conference on Disaster management, Victor Menezes Convention Centre, Indian Institute of Technology (IIT) Bombay, Powai, Mumbai, India.
- **Pawan Kumar**, Mahajan AK (2017). The hydro-geochemical characterization and water quality index of Dal Lake Mcleodganj in north-western Himalaya, India, National Workshop in Department of Environmental Sciences, Central University of Himachal Pradesh, India.

- **Pawan Kumar**, Meena NK, Mahajan AK (2016). Impact of anthropogenic activities and climate change on Himalayan lakes. One day national conference on Biodiversity conservation and pollution control-challenges and strategies, Department of Environmental Sciences, University of Jammu.
- Mahajan AK, Rajput P, Kumar P, **Pawan Kumar**, Sharma S (2014). Seismic hazards status in Himachal Pradesh and its preparedness, three days national workshop on “Status of Natural Hazards in Himachal Pradesh”, CUHP, TAB Shahpur.
- **Pawan Kumar**, Narendra K Meena, Mahajan AK (2014). Trophic status and water quality assessment of Rewalsar Lake Himachal Pradesh, India, three days national workshop on “Status of Natural Hazards in Himachal Pradesh”, CUHP, TAB Shahpur.
- **Pawan Kumar** (2014). Spiritual, ethical and emotional aspects and their roles in biodiversity conservation, two days national conference on “Implication of Climatic change on Himalayan environment, CUHP, TAB Shahpur.
- **Pawan Kumar** (2013). Depleting Ozone Layer: It’s Threat and Efforts at Global Levels, One day national seminar entitled “Changing Environment: A Global Concern” APJ Girls College Charkhi Dadri (Bhiwani), Haryana.
- **Pawan Kumar**, Kumar P, Kumar P (2013). Biotechnology and its approaches to sustainable development with reference to environment, One day national seminar on “Promising trends in science galaxy”, Deptt. of Zoology, MDU Rohtak, Haryana.

#### **D. Conferences/seminar/workshop attended (Total-20)**

- Two days national workshop “Disaster management to mark 1905 Kangra earthquake” in Central University of Himachal Pradesh, India. 3-4 April 2019.
- Two days national workshop “Biodiversity and climate” in Central University of Himachal Pradesh, India. 25-26 February 2019.
- Two days International Symposium on “Emerging trends in modelling strategies for natural resources conservation and waste management” (ETMSWM) 22-23 March, 2018.
- Two days National workshop on “Environmental risk assessment (ERA) and food toxicity” Department of Environmental Sciences, Central University of Himachal Pradesh, India. 08-09 March 2018.

- One day National workshop on “Writing Research Paper”, Central University of Himachal Pradesh, TAB, Shahpur, Kangra. 18-19 December **2014**.
- Three days workshop on “Youth and climate change in the Indian Himalayan region (IHR)”, GB Pant Institute of Himalayan Environment and Development, Himachal Unit, Mohal-Kullu, Himachal Pradesh. 01-03 December, **2014**.
- Two days training on “Global Positioning System (GPS)” at Soldha landslide site” near 32 mile of District Kangra, Himachal Pradesh by M/S Aimil. Ltd. New Delhi, **2014**.
- Two days training on “subsurface utility engineering (SUE)” by Aqua foundation academy. **2014**.
- One day seminar on GIS, ESRI India, HSV Chandigarh. Sept. 03, **2014**.
- Five days’ workshop on “ERDAS and Geomedia-Remote sensing & GIS Software”, conducted by SCIENCE, Dehradun in collaboration with Intergraph at Department of Environmental Sciences, Central University of Himachal Pradesh, Dharamshala, Himachal Pradesh. 24-28 February **2014**.

**(Pawan Kumar, Ph.D.)**