

PERSONAL PROFILE



(ACADEMIC ACHIEVEMENTS)

(2019-2022)

Prof. Rajesh Kumar

Department of Environmental Science

School of Earth Sciences

Central University of Rajasthan

Ajmer-305817

Rajasthan (INDIA)



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Prof. Rajesh Kumar

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<https://scholar.google.com/citations?user=8ltBuA8AAAAJ&hl=en>,
<https://www.curaj.ac.in/faculty/rajesh-kumar>

Area of Specialisation: Glaciology, Climate Change, Air Pollution, Hydrochemistry

Experiences (23+ years) : Teaching: (12+ years; Research: (23+) years;

Administrative: (10+) years

Research Guidance:

PhD Thesis awarded: 13 Under Guidance: 05 M Tech.: 09 M.Sc. Under Guidance: 12

Details of Research Publications

Research Publications		Book Chapters		Invited Lectures		Paper Presented	
Int	Nat	Int	Nat	Int	Nat	Int	Nat
56	20	39	1		16	46	39

Research Projects funded by National/International Organisation: 09

Total Grant in Rs. 3,22,10,663/-

Ongoing :02 (Grant: Rs. 59,40,380/- CCPD, DST, GoI
Rs. 14,00,030/- APN, Japan)
Completed :07 (Grant: Rs. 2,48,70,200/-)

Academic Profile

Degree/Exam	Board/Institute/University	Year of Passing
Ph.D.	Banaras Hindu University	1999
M.Sc. (Tech.) Geophysics (Meteorology)	Banaras Hindu University	1994
B.Sc. (Hons.) Physics	Ranchi University	1991
Diploma in Yogic Science	Banaras Hindu University	1998

Details of Teaching/Research/work experiences (Post PhD) 23Y07M

Designation	University /Institute	Period (From)	Period (To)
Professor	Central University of Rajasthan	09/07/2019	Continue
Professor	Sharda University	01/04/2015	08/07/2019
Associate Professor	Sharda University	24/05/2010	31/03/2015
Scientific Officer	BIT, Jaipur	14/08/2006	22/05/2010

List of Awards

List of Research Projects

Ongoing

Nature of Project	Title of Project	Capacity	Name of Funding Agency	Value of Project	Duration (months)
Major		Project Coordinator/ (PI)		14,00,030	24 Months
Major	Study of Glacio-hydrological Processes at Naradu Glacier, Western Himalaya	Project Coordinator/ (PI)	Climate Change Program (CCPD), DST, Govt. of India	₹ 59,40,380	36 Months Dec 17, 2020 – Dec 31, 2023

Completed

Nature of Project	Title of Project	Capacity	Name of Funding Agency	Value of Project	Duration (months)
Major	“Integrated Studies of Himalayan Cryosphere (ISHC)” <i>Energy Balance study on Batal Glacier, Himachal Himalaya</i>	Project Coordinator/ (PI)	Space Applications Centre, ISRO, Ahmedabad	₹ 20,00,000	24 Months Sept. 2017- Sept. 2019
Major	Estimation of glacier mass balance, glacier dynamics and surface flow using UAVs (Unmanned Aerial Vehicles) in Baspa Basin, Himachal Pradesh	Principal Investigator (PI)	Ministry of Earth Science, Govt. of India	₹ 49,73,053	36 Months (29/3/2016-28/03/2019)
Major	Contribution to High Asia Runoff from Ice and Snow (CHARIS)	Principal Investigator (PI)	United States Agency for International Development (USAID), USA	\$ 1,12,100 ₹ 75,86,500 @ Rs. 65/USD	60 Months (6/2/2013-30/9/2018)
Major	Study of Glaciohydro-meteorological Processes at the Naradu Glacier	Principal Investigator (PI)	Department of Science and Technology (DST), Govt. of India	₹ 50,55,000	36 Months (19/2/2015-18/02/2018)
Major Project	Snout Monitoring, Mapping, Mass and Energy Balance and Assessment of Biophysical Environment of Naradu Glacier, H.P.	Collaborative (4 partners) PI of own component complete budget = ₹ 1,01,00,000	Dept. of Sc. & Technology (DST), New Delhi, India	₹ 19,61,800	58 (9/9/2010-30/4/2015)
Major Project	Case studies of impacts of climate change on hydrological regime in Nepal, India, and Afghanistan	Principal Investigator (PI)	South Asia Water Initiative (SAWI), ICIMOD, Kathmandu, Nepal.	\$ 31,000 ~₹ 17,00,000	20 19/03/2012-23/10/2013
Major Project	Impact of climate change on Himalayan glaciers in Uttarakhand. with special reference to Gangotri and related glaciers	Principal Investigator (PI)	Worldwide Fund for Nature (WWF)-India	₹ 15,93,900	32 11/09/2007-30/06/2010

List of Students Awarded and Registered for Ph.D. and M.Phil.

Ph.D. under supervision : 05

Ph.D. thesis awarded to students under my supervision : 13

Sl.	Registration Number	Name of scholar	Discipline	Title of Research	Date of Award (MMDDYY)
1	2010002601	Manish Sharma	Env. Sc.	Seasonal characteristics and dynamics of atmospheric aerosols	04-02-2016
2	2010002616	Shruti Singh	Env. Sc.	Study of environmental impacts and associated concern on Naradu Glacier Himachal Pradesh	12/30/2016
3	2012005928	Pramod Kumar Sinha	Civil Engineering	Impact of climate change on water availability in the resource of Letaba River	4/18/2017
4	2012003524	Shaktiman Singh	Env. Sc.	Study of glacio- hydrological processes	05-05-2018
5	2010002635	Madhu Ranjan Vatsa	Management	Sustainable green marketing strategy: a case study of Car industry in India	07-09-2018
6	2014017463	Lydia Sam	Env. Sc.	Study of dynamics in Himalayan glaciers using geospatial techniques	7/25/2018
7	2011230099	Mohammad Arif	Env. Sc.	Modelling of Black carbon emission and its impact	10-05-2019
8	2010002599	Akshansha Chauhan	Env. Sc.	Characterising Air Pollution (Natural and Anthropogenic) over Northern India using Satellite and Ground Observations	12/14/2019
9	2014001480	Ramesh Kumar	Env. Sc.	Hydro geochemical characteristics of Shaune glacier	01/18/2020
10	2015002383	Rupendra Singh	Env. Sc.	Study of Glacier Dynamics in Shyok Sub-Basin (Karakoram Himalaya) Using Remote Sensing and Geographical Information System	09/29/2020
11	2010002615	Piyush Gourav	Env. Sc.	Glacio-Geomorphological Hazard Mapping of Gangotri Glacier Catchment Using Remote Sensing and GIS Modelling	09-04-2021
12		Radha Krishna Sharma	Env. Sc.	Hydro-meteorological influence on the variability of melt runoff and suspended sediments in east Rathong glacier, eastern Himalaya	03-06-2022
13	2015002854	Atar Singh	Env. Sc.	Empirical modelling for ice volume and glacier mass balance	21-02-2023

List of participation in Conferences/Seminar/Workshops (National/International)

International

- i. Participated in a webinar on “Designing formative assessments for effective learning outcomes” held online via video conferencing, organised by Turnitin on 08 October, 2021.
- ii. Participation in a webinar on “The Cryosphere under Warm Climate: Effect on Water Security” organised by the State Centre on Climate Change under the aegis of Himachal Pradesh Council for Science Technology & Environment (HIMCOSTE), Shimla and Devecha Centre for Climate Change, IISc. Bengaluru on 01 February, 2021
- iii. Participated in the 2nd International Workshop on “Extreme Severe Storms and Disaster Mitigation Strategies” held on February 27-29, 2020, at Central University of Rajasthan.

- iv. Participated in the International Workshop on “Asia Precipitation Experiment (AsiaPex)/South Asia (SA)” held on March 1-2, 2020, at Central University of Rajasthan.

National

- i. Participated in a Road Safety leaders training program titled “Helmet Protsahan, Siksha Jagrukta Evam Anivaryata Abhiyan” held at Govt. Engineering College, Ajmer, Rajasthan on 25 January, 2020.

List of Conferences / Seminars / Workshop Organized

- (i) **Convener**, Youth Development Program on “A Purview of Dimensions, Career Amplitudes and Applied Research Latitudes in Multi-Disciplinary Realm of Environmental Science” organised at Department of Environmental Science, School of Earth Sciences, Central University of Rajasthan during 14-15 March, 2022.
- (ii) **Organised, Webinar titled “Prakram Divas: Netaji's Subhas Chandra Bose Jayanti” on 23 January 2021** at Central University of Rajasthan.
- (iii) **Convener, Webinar on "The Road to Road Safety"** on 06 February 2021 in association with Central University of Rajasthan, Ajmer and Civil Defence, Ajmer
- (iv) **Convener, Webinar on "The Road to Road Safety"** on 13 February 2021 in association with Central University of Rajasthan, Ajmer and Civil Defence, Ajmer
- (v) **Organised a webinar on "The Road to Road Safety"** on 17 February 2021 in association with Central University of Rajasthan, Ajmer and Civil Defence, Ajmer
- (vi) **Organising Secretary**, 19th edition of **International Conference on Cryptology (INDOCRYPT - 2018)** jointly organised by **Scientific Analysis Group (SAG)**, DRDO, Delhi and **Sharda University**, Greater Noida during December 09-12, 2018 held at India Habitat Centre, New Delhi.
✓ **Sponsors:** NBHM, Bharat Electronics, TCS, Google, Microsoft Research, Cryptology Research Society of India, International Association of Cryptology Research and Springer; Participants 190 (International 22). Outlay 25 Lakhs.
- (vii) **Convener, “Earth Day- 2018”** on 22 April, 2017 at Sharda University, Greater Noida, Funding Agency: Ministry of Earth Sciences, Govt. of India and Sharda University
✓ **Fund Sanctioned: ₹ 83,000/-; Expenditure incurred: ₹ 77,471/-; Grant Received: ₹ 50,000/- from MoES, Govt. of India and ₹ 27,471/- from Sharda University**
- (viii) **Organising Secretary, “National Instructional Workshop on Cryptology (NIWC-2017)”** during October 06-08, 2017 at RTDC, Sharda University, Greater Noida, Funding CRSI
- (ix) Convener, Guest Lecture by Prof. J Narayan is The John C. C. family distinguished Chair in Material Engineering, distinguished Director of NSF Centre for Advanced Materials and Smart Structures, Department of Material Science and Engineering, North Carolina State University, Raleigh (USA), held at Sharda University, Gr. Noida on 15 December, 2017
- (x) **Co-Convener, “Water Conservation”** Event in collaboration with CMS VATAVARAN Environment and Wildlife Film Festival and Forum on 13 October 2017, Held at Sharda University Greater Noida.
- (xi) **Convener, “Earth Day- 2017”** on 22 April, 2017 at Sharda University, Greater Noida, Funding Agency: Ministry of Earth Sciences, Govt. of India
✓ **Fund Sanctioned: ₹ 1,10,000; Expenditure incurred: ₹ 98,445/- ; Grant Received: ₹98,445/-**
- (xii) **Convener, “Earth Day- 2016”** on 22 April, 2016 at Sharda University, Greater Noida, Funding Agency: Ministry of Earth Sciences, Govt. of India
✓ **Fund Received: ₹ 88,424; Expenditure: ₹ 88,424; Refunded: ₹ 0.0**

- (xiii) **Convener, “Save Water Save Life- 2015”** held on 30 September, 2015 at Sharda University, Greater Noida, Funding Agency: Sharda University
- (xiv) **Joint Convener, “Earth Day- 2015”** held on 22 April, 2015 at Sharda University, Greater Noida, Funding Agency: Sharda University
- (xv) Faculty Coordinator for a student’s organised session **“Mind Matters”** a talk by Mr. Rahul Pandey organised on 07/04/2015, Room No. 102, SET-III.
- (xvi) **Faculty Coordinator “SANLAYAN 2013 – a Talent Hunt” program of Sharda University organised on 16 November, 2013 at Sharda University, Greater Noida, India**
- (xvii) **Co-Convener, International Conference on “Multifunctional Materials Energy and Environment”** held during August 21-23, 2013 at Sharda University, Greater Noida, India
- (xviii) **Convener, “Earth Day-2013”** on 22 April, 2013 at Sharda University, Greater Noida, Funding Agency: Ministry of Earth Sciences, Govt. of India
 - ✓ **Fund Received: ₹ 1,00,000; Expenditure : ₹ 92,406; Refunded: ₹ 7,594**
- (xix) **Convener, “Workshop on Positive Degree Day Modelling of Glaciers”** during 28th -29th September, 2012 at Sharda University, Greater Noida, Funding Agency: South Asia Water Initiative (SAWI), Abu Dhabi Dialogue Knowledge Forum, Small Grants Programme (ADDFSGP)
- (xx) **Organising Secretary, “National Conference on Semiconducting Materials and Nano Devices”**, during September 14-15, 2012, RTDC, Sharda University, Greater Noida, India
- (xxi) **Organising Secretary, “National Seminar on Futuristic Materials for Device Applications”** on 27 July, 2012, organised by Research and Technology Development Centre, Sharda University and Sponsored by Defence Research and Development Organization, New Delhi
- (xxii) **Convener, “Earth Day- 2011”** on 22 April 2011 at Sharda University, Greater Noida, Funding Agency: Ministry of Earth Sciences, Govt. of India
 - ✓ **Fund Received: ₹ 1,07,000; Expenditure : ₹ 96,835; Refunded: ₹ 10,165**
- (xxiii) **Convener, International Workshop on “Deglaciation: Impacts and Adaptations for Water Resources and Livelihoods in the Himalayas”**, April 27-28, 2004 at India International Centre, New Delhi, India.

List of Invited Talks

- (i) **Guest Speaker** talk entitled “Extreme Events and Sustainable Livelihood” on "World Environment Day 2022" in a Webinar organised by Department of Environmental Science, Central University of South Bihar with the theme "Only One Earth" on 05.06.2022
- (ii) **Invited talk** entitled “Environmental Issues and Sustainable Development” in National Seminar on Environmental Issues and Sustainable Development (EISD-2022) 26 March, 2022 Organized by S. S. Jain Subodh College of Global Excellence, Sitapura, Jaipur under the auspices of National Academy of Sciences, India (NASI) - Rajasthan Chapter on 26.03.2022
- (iii) **Lead Speaker and Chair** the technical session on Scientific Evidence of Climate Change, Extreme Events and Sustainable Livelihoods on 13th March 2022, organised by Department of Geography at Kirori Mal College, University of Delhi, Delhi. Talk delivered - Climate Change, Extreme Events and Sustainable Livelihood on 13.03.2022.
- (iv) **Resource person** in a Webinar on Awareness Among the Prospective Teachers on Environmental Issues and Concerns organised by Regional Institute of Education (RIE),

- NCERT, Ajmer during 7-8 March 2022. Talk delivered - "Environmental Issues and its impacts" on 08.03.2022.
- (v) **Guest of honour** in a two-days Conference- "SECURE HIMALAYA- SAFE INDIA" organised by Department of Environment, Science & Technology, Paryavaran Bhawan, Government of Himachal Pradesh, Shimla-1 in association with GIZ, Germany during 18-19 December 2021. Talk delivered - Changing Climate and Current Scenario of Himalayan Glaciers on 18.12.2021.
 - (vi) **Resource person** in a RUSA 8th Faculty Induction Programme (online) from 15.11.2021 to 14.12.2021 organised by UGC-HRDC, University of Rajasthan, Jaipur on the objectives of professional skills of the teachers and make them agents of socio-economic change and delivered talk entitled "Global Warming and its Impacts: Issues, Challenges and Mitigation" on Dec 1, 2021.
 - (vii) **Invited talk** entitled "Climate Change & its Impact on glaciers" in a webinar "Challenges of DRR and Climate Change: Knowledge from Lap to the People" organized by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India on 23/09/2021 (Online)
 - (viii) **Invited talk** entitled "Climate Change & its Impact on glaciers" under the expert lecture series to enhance the cognizance about the various aspects of sustainable development organized by Centre for Sustainable Development, Mahatma Gandhi Central University, Motihari, Bihar on 19/06/2021 (Online)
 - (ix) **Invited talk** entitled "Environmental and Natural Disasters" National Webinar on Environmental and Natural Disasters organised by ST. Wilfred's Institute of Engineering & Technology, Ajmer on 11 June 2021 (online).
 - (x) **Invited talk** entitled "Changing Climate Impacts and need to Restore our Ecosystem" in a webinar on 'Ecosystem Restoration – Creating a Good Relationship with Nature' organised by the Institute of Town Planners, India (ITPI), New Delhi, on the World Environment Day – 5 June 2021.
 - (xi) **Invited talk** entitled "Climate Change & its Impact on glaciers" in "Four Weeks Online Induction Training Program for Faculty Members of Higher Education Institutions (HEIs)" organised by Teachers Learning Centre at the Central University of Rajasthan delivered on 15 February 2021.
 - (xii) **Invited talk** entitled "Trend of Climate & impacts on Environment- The role of technology & Management" in "National Conference on Recent Trends in Engineering & Management" organised by ST. Wilfred's Institute of Engineering & Technology, Ajmer, on 4 March 2021 (online) also the Chief Guest of the event.
 - (xiii) **Invited talk** entitled "Natural Disaster and Mitigation" in 10th webinar on 'Civil Defence and Disaster Management' organised by Pacific School of law, Pacific University, Udaipur on 19.12.2020
 - (xiv) **Invited talk** entitled "Climate Change and its impact on glaciers" in a Refresher Course (9 March 2021 to 22 March 2021) on Environmental Studies organised by Pandit Madan Mohan Malviya National Mission on Teachers and Teaching (PMMMNTT), Ministry of

Education and the Department of Environmental Science, Central University of Kerala, on 15 March 2021.

- (xv) **Invited talk** entitled “**Climate change and its impacts on glaciers: the role of Science and Technology**” in a webinar on **National Science Day, 28 February 2021 organised by ICAR-Central Arid Zone Research Institute, Jodhpur. On 28 February 2021.**
- (xvi) **Invited talk** entitled “Impact of Changing Climate in General and in particular on the Glacier: A Case Study of Naradu Glacier, Himachal Pradesh” in the 1st National Conference on Environment and Energy Materials (NCEEM-2020), Organised by the Department of Environmental Sciences, School of Basic Sciences and Research, Sharda University, Greater Noida during June 27-28, 2020 (Online)
- (xvii) **Invited talk** entitled “Glacier mass balance estimation of Naradu Glacier, Western Himalaya” in the **National Conference** on “Recent Trends in Environmental Pollution and Disaster Risk Reduction (RTEPDRR 2020)” organised by IIT(ISM), Dhanbad in collaboration with FICCI, New Delhi at FICCI FEDERATION HOUSE TANSEN MARG NEW DELHI during February 06-07, 2020.
- (xviii) **Invited talk** entitled “Environmental sustainability: a case study on Himalayan Cryosphere” in Second **International Conference** on Recent Trends in Environment and Sustainable development (RTESD-2019) organised by Vivekananda Global University, Jaipur on 18 October, 2019
- (xix) **Invited talk** entitled “Climate Change Facts finding” at Dept. of Environmental Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar, Haryana on 29 March, 2019
- (xx) **Invited talk** entitled “Climate Change and its Impact on Baspa Valley, Western Himalaya” in DTRL, DRDO, Metcalfe House, Delhi-110054 on 06 January 2017
- (xxi) **Invited Talk** entitled “Air Pollution and Climate” in “National Conference on Materials of Next Generation” Ram-Eesh Institute of Engineering and Technology, Knowledge Park-I, Greater Noida, India during November 6-7, 2015
- (xxii) **Invited Talk** entitled “Glacial Hazards under the influence of changing climate”, International Conference on “Multifunctional Materials Energy and Environment” held during Aug 21-23, 2013 at Sharda University, Greater Noida, INDIA
- (xxiii) **Invited talk** entitled “Himalayan Cryosphere: Witnessing Change” in the DRDO CEP course on “Application of advanced image processing and GIS techniques for snow cover mapping, glacier investigation and avalanche hazard analysis: during 04-08 July 2011 at SASE, Chandigarh, India

a) SESSION CHAIR/JUDGES BY INVITATION FROM OTHER ORGANISATIONS: (11)

- i) **The judge** in the Inter-Collegiate Competition on the topic “Impact of Social Media on Relationship- Helpful or Harmful” held at Army Institute of Education, Greater Noida, affiliated to Guru Gobind Singh Indraprastha University, New Delhi on 27 March, 2019

- ii) **The judge** in the “26th National Children’s Science Congress-2018” at Intra-regional Level under the theme “Science Technology and innovation for a Clean, Green and Healthy Nation” held at Kendriya Vidyalaya, Greater Noida during November 3-5, 2018.
- iii) **Guest of Honour** in the 9th Doctoral Conference entitled “Current Trends in Management & Information Technology” during July 27-28, 2018 at Hindustan Institute of Management & Computer Studies, Farah, Mathura (UP).
- iv) **Session Chair**, National Seminar on Agrometeorology for Sustainable Development with special emphasis on Agrometeorological Practices for Climate Resilient Farming and Food Security (AGMET-2017), held at CCS HAU Hisar, Haryana, during 12-14 October 2017.
- v) **Session Chair** in International Conference on “Media and Communication in Sustainable Development (MCSD-2016)” in association with ACMC India Chapter, Society for Education and Research Development, Indian Institute of Management, Kashipur, Uppsala University, Sweden and Visva-Bharati, Shantiniketan, held on October 24-25, 2016 at AIMT, Greater Noida.
- vi) **Session Chair** in an International workshop on “Environmental Threats in Cold Deserts - Challenges and the Way Ahead” during July 22-23, 2009 at New Delhi, INDIA

Interviews published/ Broadcasted in Print and Electronic Media

: 17

- (i) Interview on “Global Warming and Melting of Glaciers”, July 2014; <http://www.sharda.ac.in/blog/global-warming-and-melting-of-glaciers-interview-with-dr-rajesh-kumar/>
- (ii) Interview on “Beating Retreat”, HINDUSTAN TIMES, 22 November, **2009** (Saturday); <http://www.hindustantimes.com/StoryPage/Print/479098.aspx>
- (iii) Interview on “Himalayan glaciers are melting faster”, DECCAN CHRONICLE, Hyderabad, 3 November, **2009** (Tuesday); <http://www.deccanchronicle.com/hyderabad/himalayan-glaciers-are-melting-faster-619>
- (iv) Interview on “Why are the Himalayan glaciers melting?” BBC NEWS, 2 November **2009** (Monday); <http://news.bbc.co.uk/2/hi/8337604.stm>
- (v) Interview on “Himalayan glaciers melting fast: Scientists: Bangladesh to face catastrophe”, BANGLADESH TIMES, 31 October, **2009** (Saturday); <http://nation.ittefaq.com/issues/2009/10/31/news0131.htm>
- (vi) Interview on “Global warming threatening earth’s ice factories”, by Bahar Datta, CNN_IBN, Saturday, 6 June, **2009**; <http://ibnlive.in.com/news/global-warming-threatening-earths-ice-factories/94283-3.html>
- (vii) Interview on “The Gangotri is melting”, THE HINDU, Friday, 19 June, **2009**; <http://www.thehindu.com/fr/2009/06/19/stories/2009061950520100.htm>
- (viii) Interview on “At Melting Point: Gangotri shifts, scientists shifty” CNN-IBN, 5 June, **2009** (Friday); <http://ibnlive.in.com/news/at-melting-point-gangotri-shifts-scientists-shifty/94226-11-15.html>
- (ix) Interview on “The great Himalayan meltdown” by N. Gopal Raj, THE HINDU, Tuesday, 10 April, **2007**; <http://www.thehindu.com/2007/04/10/stories/2007041001520900.htm>

- (x) News published based on publication on “Himalayan Glacier Melting Observed from Space” SCIENCE DAILY, 28 March, 2007 (Wednesday); <http://www.sciencedaily.com/releases/2007/03/070327113346.htm>
- (xi) Interview on “The Gangotri glacier is shrinking” by Divya Aiyer, CNN-IBN, 20 November, 2006 (Monday); <http://ibnlive.in.com/news/the-gangotri-glacier-is-shrinking/26587-3.html>
- (xii) Interview for video on “The Gangotri glacier is shrinking” by Divya Aiyer, CNN_IBN, November 2006; <http://www.ibnlive.com/videos/26587/the-gangotri-glacier-is-shrinking.htm>
- (xiii) Interview on “The Ganga Could Run Dry” by Shubranshu Choudhary, THE HINDU, Sunday, 9 October, 2005; <http://www.thehindu.com/thehindu/mag/2005/10/09/stories/2005100900130200.htm>
- (xiv) Interview on “Gangotri ki Kawad yatra se Chinta (Worries due to more rush of KAWAD pilgrimage on Gangotri)” BBC Hindi Services, UK, 10 August, 2005; http://www.bbc.co.uk/hindi/regionalnews/story/2005/08/050809_gangotri_kanwad.shtml
- (xv) Interview on “Impacts of Climate Change on Gangotri Glacier Retreat”, by Roger Haraben, BBC World NEWS Channel, Thursday, 30 June 2005.
- (xvi) Interview in Hindi “Bhagirathi ka Udgam Peechhe Hat Sakta hai (The origin of Bhagirathi river can go back)” by Sivkant Sharma, BBC Hindi Services, UK 3 November 2003, http://www.bbc.co.uk/hindi/science/story/2003/11/031103_glacier_gangotri.shtml
- (xvii) Radio talk in London on “Gangotri Glacier’s Status”, with Shiv Kant Sharma, BBC Hindi Seva, London, U.K., 1 November 2003,
- (xviii) Interview on “White Wash”, Down To Earth, Published by CSE, New Delhi, 30 September 2003

Professional Achievements/Member of organisations

- i) Life member South Asian Meteorological Association (SAMA) dated 15.05.2022, membership number: **SAMA-LM-IND-41**
- ii) Editorial Board member Geomatics, Natural Hazards & Risk, Taylor and Francis since 19 April 2021
- iii) Member Editorial Board, Jalawaayu, An International Journal of Central Department of Hydrology and Meteorology, Institute of Science and Technology, Tribhuvan University (CDHM-TU), Nepal since inception 23 March 2021.
- iv) Member American Geophysical Union (AGU), 2000 Florida Avenue, NW, Washington, DC 20009-1277
- v) Member reviewer's panel office order Strategic Programmes, Large Initiatives and Coordinated Action Enabler (SPLICE) and Climate Change Programme (CCP), DST, Govt. of India (w.e.f. 4 November, 2016 for 3 years)
- vi) **Climate Reality Leadership Corps** (February 22-24, 2015), The Climate Reality Project, 750 9th Street, NW, Suite 520, Washington, DC 20001
- vii) Member International Glaciological Society (IGS) Membership Number: 00007607
- viii) Life member of **International Association of Hydrological Sciences (IAHS)**, Wallingford, UK (Membership No. 7553)
- ix) Life Member of the **Indian Meteorology Society (IMS)**, New Delhi, India (Membership No. LM 595)
- x) Life member of **Association of Agro-meteorologist's**, Anand, India (Membership No. LM 70)
- xi) **Managing Editor**, Jr. of Scientific & Industrial Research, published by Sharda University, India since 2011
- xii) **Member of Asia Oceania Geosciences Society (AOGS)** for period 2010-2013 (Member ID-10A111)
- xiii) **Member editorial Board** (since August 2013), International Journal of Applied Environmental Science & Technology (ISSN 2321-8223), Published by National Printer and Publisher, Alakhnanda Community Centre, New Delhi- 110019.
- xiv) **Member International Glaciological Society (IGS)** (since May 2015) [Member ID-00007607]

List of membership on International / National / University bodies

- i. Editorial Board member Geomatics, Natural Hazards & Risk, Taylor and Francis since 19.04.2021
- ii. Member American Geophysical Union (AGU), 2000 Florida Avenue, NW, Washington, DC 20009-1277
- iii. Member reviewer's panel office order Strategic Programmes, Large Initiatives and Coordinated Action Enabler (SPLICE) and Climate Change Programme (CCP), DST, Govt. of India (w.e.f. 04 November, 2016, for 3 years).
- iv. Climate Reality Leadership Corps (February 22-24, 2015), The Climate Reality Project, 750 9th Street, NW, Suite 520, Washington, DC 20001.

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- viii. Life member of the Association of Agro-meteorologists, Anand, India (Membership No. LM 70)
- ix. Managing Editor, Jr. of Scientific & Industrial Research, published by Sharda University, India, since 2011
- x. Member of Asia Oceania Geosciences Society (AOGS) for the period 2010-2013 (Member ID- 10A111)
- xi. Member editorial Board (since August 2013), International Journal of Applied Environmental Science & Technology (ISSN 2321-8223), Published by National Printer and Publisher, Alakhnanda Community Centre, New Delhi- 110019.
- xii. Member International Glaciological Society (IGS) (since May 2015) [Member ID- 00007607]

List of Publications

Sl.	Details of the Papers	Year Pub.	Jr. Class	listing	Impact Factor
114	Kumar, R., Kumari, A., Kumar, R. , Sulaiman, M. A., Zafar, M. M., Singh, A., Pippal, P. S. (2023). Assessing the geochemical processes controlling groundwater quality and their possible effect on human health in Patna, Bihar. Environmental Science and Pollution Research, 1-20.	2023	Int. Jr.	Web of Science Scopus	5.19
113	Kumar, M.; Dashora, M.; Kumar, R. ; Dubey, S.K.; Gupta, P.K.; Kumar, A. Deciphering Depositional Environment of Playa Lakes Using Grain Size Parameters in the Arid and Semi-Arid Region of Rajasthan, India. Agriculture 2022, 12, 2043. https://doi.org/10.3390/agriculture12122043 .	2022	Int. Jr.	Web of Science	3.40
112	Kumar R., Kumar R. , Bhardwaj A., Singh A., Singh S., Kumari A., Sinha RK (2022) Multivariate statistical analysis and geospatial approach for evaluating hydro-geochemical characteristics of meltwater from Shaune Garang glacier, Himachal Pradesh, India. Acta Geophysica. Impact Factor: 2.05. ISSN: 1895-7455. https://doi.org/10.1007/s11600-022-00844-1 .	2022	Int. Jr.	Scopus	2.29
111	Kumar R., Kumar R. , Singh S., Arif M., Kumar P., Kumari A (2022) Chemometric approach to evaluate the chemical behavior of rainwater at high altitude in Shaune Garang catchment, Western Himalaya. Sci Rep 12, 12774. Nature Scientific Reports. Impact Factor: 4.38. ISSN: 2045-2322. https://doi.org/10.1038/s41598-022-15422-0 .	2022	Int. Jr.	Scopus	4.99
110	Pandey V.K., Kumar R., Singh R.*, Kumar R. , Rai S.C., Singh R.P., Tripathi A.K., Soni V.K., Ali S.N., Tamang D., Latief S.U. (2022) Catastrophic ice-debris flow in the Rishiganga River, Chamoli, Uttarakhand (India), Geomatics, Natural Hazards and Risk, 13:1, 289-309, DOI: https://doi.org/10.1080/19475705.2021.2023661	2022	Int. Jr.	Scopus	3.528

109	Kumar, R.; Singh, Shruti.; Singh, Atar.; Kumar, Ramesh.; Singh, Shaktiman.; Randhawa, S. S. (2021), Surface mass balance analysis at Naradu Glacier, Western Himalaya, India. SCIENTIFIC Report 11, 12710, https://doi.org/10.1038/s41598-021-91348-3 . Impact Factor = 4.37; Nature Publishing Group	2021	Int. Jr.	ISI Web of Science, PubMed, PubMed Central, Scopus, Google Scholar, and SAO/NASA ADS)	4.99
108	Chauhan A., Singh R. P., Kumar R. and Das P. (2021), Dynamics of Amphan Cyclone and associated changes in ocean, land meteorological and atmospheric parameters, MAUSAM, 72 (1) (Jan-2021), pp. 215-228. 551.515.2: 551.509.313	2021	Int. Jr.	SCI	0.542
107	Singh, A.; Kumar, Rajesh.; Kumar, Ramesh.; Singh, K.K.; Randhawa, S.S. (2021), Quantification of volume loss and snout retreat from 1980 to 2019 of Baspa basin glaciers, western Himalaya. Materials Today: Proceedings, https://doi.org/10.1016/j.matpr.2021.01.141 Impact Factor = 1.24	2021	Int. Jr.	Scopus	
106	Sharma, R.K.; Kumar, Rajesh; Shrestha, D.G. (2021), Suspended sediment dynamics and associated hydro-meteorological interrelations in East Rathong Glacier, Eastern Himalaya. India. <i>Materials Today: Proceedings</i> , https://doi.org/10.1016/j.matpr.2021.01.082 . Impact Factor = 1.24	2021	Int. Jr.	Scopus	
105	Chauhan, A., Singh, R.P., Dash, P. and Kumar, R. , 2021. Impact of Tropical Cyclone “Fani” on Land, Ocean, Atmospheric and Meteorological Parameters. Marine Pollution Bulletin, 162, pp.111844 https://doi.org/10.1016/j.marpolbul.2020.111844 [print 2021.01.30]	2021	Int. Jr.	SCOPUS	5.55
104	Chauhan, A., Singh, R.P., Dash, P. and Kumar, R., 2020. Change in Land and Ocean Parameters along the Track of Tropical Cyclone Fani. In 2020 IEEE International Geoscience and Remote Sensing Symposium (IGARSS), pp. 5554-5557.	2020			
103	Francis, C.; Singh, S.; Kumar, Rajesh (2021) , Rainfall and streamflow trends of Thuchila River, Southern Malawi. <i>Materials Today: Proceedings</i> , 34 (3), 846-855. https://doi.org/10.1016/j.matpr.2020.06.228 . Impact Factor = 1.24	2020	Int. Jr.	Scopus	
102	Singh, S.; Kumar, R. (2021) , A statistical approach to estimate equilibrium line altitude (ELA) and its trend analysis on Naradu Glacier, Himachal Himalaya, <i>Materials Today: Proceedings</i> , 34 (3), 869-874. https://doi.org/10.1016/j.matpr.2020.08.787 . Impact Factor = 1.24	2020	Int. Jr.	Scopus	
101	Kumar, Rajesh; Sharma, R.K.; Pradhan, P.; Shrestha, D. G. (2020), Melt Runoff Characteristics and Hydro-Meteorological Assessment of East Rathong Glacier in Sikkim Himalaya, India. <i>Earth System and Environment</i> , 4(3), 567-582. https://doi.org/10.1007/s41748-020-00168-4 . [24.07.2020 online], Publisher - Springer Nature	2020	Int. Jr.	SCOPUS	
100	Kumar, P.; Fulekar, M.H.; Hiranmai, R.Y.; Kumar, R.; Kumar, R. (2020) , 16S rRNA molecular profiling of heavy metal tolerant bacterial communities isolated from soil contaminated by electronic waste. <i>Folia Microbiologica</i> , 65, 995-1007.	2020	Int. Jr.		2.62

	https://doi.org/10.1007/s12223-020-00808-2 . Impact Factor = 2.13				
99	Gourav Piyush, Kumar Rajesh* and Gupta Akhilesh (2020), AHP based Flood Hazard Zonation and Risk Assessment in the Bhagirathi River Basin, India, <i>Disaster Advances</i> Vol. 13 (3) March (2020) pp. 1-16	2020	Int. Jr.	Scopus	
98	Rupendra Singh, Rajesh Kumar , I.M. Bahuguna and Rajesh Kumar (2020), Grain Size Analysis of Dune and Bar Sediments of the Shyok River between Khalsar and Hunder Village, Karakoram Range, Ladakh, India, <i>Journal Geological Society of India</i> , Vol. 95, February 2020, pp.183-189 [Feb 2020] Publisher- Springer Nature	2020	Int. Jr.	SCOPUS	0.899
97	Gourav Piyush, Kumar Rajesh*, Gupta Akhilesh and Arif Mohammad (2020), Flood Hazard Zonation of Bhagirathi River Basin using Multi-Criteria Decision-Analysis in Uttarakhand, India, <i>International Journal on Emerging Technologies</i> 11(1): 62-71(2020)	2020	Int. Jr.	Scopus	
96	Kumar, R., Bahuguna, I.M., Ali, S.N., Singh R (2019) Lake Inventory and Evolution of Glacial Lakes in the Nubra-Shyok Basin of Karakoram Range. <i>Earth Syst Environ</i> 4, 57-70 (2020). https://doi.org/10.1007/s41748-019-00129-6 [Published by Springer Nature, on 2019.11.04]	2019	Int. Jr.	Scopus	
95	Rajesh Kumar, Ramesh Kumar, Shaktiman Singh, Atar Singh, Anshuman Bhardwaj, and Himanshu Chaudhary (2019), Hydro-geochemical characteristics of glacial meltwater from Naradu Glacier catchment, Western Himalaya, <i>Environ Earth Sci</i> (2019) 78: 683. https://doi.org/10.1007/s12665-019-8687-0 ; Publisher: Springer Berlin Heidelberg [IF- 2.253], Avg. 5 years 2019]	2019	Int. Jr.		3.11
94	Arif Mohammad, Kumar Ramesh, Kumar Rajesh , Zusman Eric (2019), 'Modelling of sectoral emissions of short-lived and long-lived climate pollutants under various control technological strategies', <i>Science of the Total Environment</i> , 699 (2020) 134358 https://doi.org/10.1016/j.scitotenv.2019.134358 [IF- 6.551]	2019	Int. Jr.	Scopus	10.75
93	Ramesh Kumar, Rajesh Kumar* , Atar Singh, Ravindra Kumar Sinha, Anupma Kumari, Akhilesh Gupta and Jagvir Singh (2019), "Distribution of trace metal in Shaune Garang catchment: evidence from particles and nanoparticles", <i>Materials Today: Proceedings</i> , 15 (2019) 586-594 [Publisher: Elsevier] [IF- 0.97]	2019	Int. Jr.		
92	Sarkar, S., Chauhan, A., Kumar, R. and Singh, R.P., (2019). Impact of Deadly Dust storms (May 2018) on Air Quality, Meteorological and Atmospheric Parameters over the Northern Parts of India. <i>GeoHealth</i> , 3, pp. 67- 80. https://doi.org/10.1029/2018GH000170 [Publisher: Wiley] [IF: Not registered]	2019	Int. Jr.		6.34
91	Ramesh Kumar, Rajesh Kumar*, Atar Singh, Shaktiman Singh, Anshuman Bhardwaj, Anupma Kumari, Ravindra Kumar Sinha, and Akhilesh Gupta (2019), "Hydro-geochemical analysis of melt water draining from Bilare Banga glacier, Western Himalaya", Jr.: <i>Acta Geophys</i> (ISSN 1895-6572), online. DOI	2019	Int. Jr.		2.29

	10.1007/s11600-019-00262-w, https://doi.org/10.1007/s11600-019-00262-w; Publisher: Springer] [IF:0.709]				
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89	Sam Lydia, Bhardwaj Anshuman, Kumar Rajesh , Buchroithner Manfred F. and Martín-Tor F. Javier, (2018), “Heterogeneity in topographic control on velocities of Western Himalayan glaciers”. <i>SCIENTIFIC Reports</i> (2018) 8:12843, DOI:10.1038/s41598-018-31310-y (indexed in ISI Web of Science, PubMed, PubMed Central, Scopus, Google Scholar, and SAO/NASA ADS) [IF: 4.609] – Published on 27.08.2018 by Nature Publishing Group	2018			4.99
88	Singh Shruti, Kumar Rajesh* and Dimri AP, (2018), “Mass Balance Status of Indian Himalayan Glaciers: A brief review”, <i>Front. Environ. Sci.</i> 6:30., August 2018, Volume 6, Article 30 doi: 10.3389/fenvs.2018.00030 Published on 21.08.2018 by Frontiers [IF:]	2018			5.41
87	Singh Shaktiman, Kumar Rajesh , Bhardwaj Anshuman, Kumar Ramesh, and Singh Atar (2018), “Changing climate and glacio-hydrology: a case study of Shaune Garang basin, Himachal Pradesh”, <i>Int. J. Hydrology Science and Technology</i> , Vol. 8, No. 3, [IF:] Published on 03.07.2018 by Inderscience Enterprises Ltd.	2018			
86	Arif Mohammad, Kumar Rajesh* , Kumar Ramesh, Zusman Eric, Singh Ramesh P., Gupta Akhilesh, (2018), “Assessment of Indoor & Outdoor Black Carbon emissions in rural areas of Indo-Gangetic Plain: seasonal characteristics, source apportionment and radiative forcing”, <i>Atmospheric Environment</i> 191 (2018) 227–240, [https://doi.org/10.1016/j.atmosenv.2018.07.057, Publisher: Elsevier], [IF: 4.61, 2017] _15.05.2018	2018			5.75
85	Kumar Rajesh , Kumar Ramesh, Singh Shaktiman, Singh Atar, Bhardwaj Anshuman, Kumari Anupma, Randhawa S.S. and Saha Ashok, (2018), “Dynamics of suspended sediment load with respect to summer discharge and temperatures in Shaune Garang glacierised catchment, Western Himalaya”, <i>Acta Geophysica</i> , https://doi.org/10.1007/s11600-018-0184-4(Springer Publication) 26 July 2018 [IF= 0.709]	2018			2.29
84	Kumar Rajesh , Kumar Ramesh, Singh Atar, Sinha Ravindra Kumar and Kumari Anupma, (2018), “Nanoparticles in glacial melt water”, <i>Materials Today: Proceedings</i> , 5, 9161-9166. [Publisher: Elsevier] [IF:0.87]	2018			

83	Singh Rupendra, Chandra Ram, Tangri Anjani K., Kumar Rajesh , Bahuguna I.M., Latief Syed Umer, Pandey Pratima and Ali Sheikh Nawaz, (2018) Long-term Monitoring of Surging Glaciers in Upper Shyok Valley, Karakoram Range, India: A Case Study of Rimo and Kumdan Groups of Glaciers, Journal of Climate Change, Vol. 4, No. 1 (2018), pp. 1-12. DOI 10.3233/JCC-180001 [05.02.2018]	2018	Int. Jr.		
82	Arif Mohammad, Kumar Ramesh, Kumar Rajesh , Zusman Eric, Gourav Piyush, (2018), "Ambient black carbon, PM2.5 and PM10 at Patna: influence of anthropogenic emissions and brick kilns, <i>Science of the Total Environment</i> , 624, 1387-1400. [IF: 6.551]	2018	Int. Jr.		10.75
81	Bhardwaj Anshuman, Singh Shaktiman, Sam Lydia, Joshi P.K. Bhardwaj Akanksha, Martín-Torresaf Javier and Kumar Rajesh, (2017), "A review on remotely sensed land surface temperature anomaly as an earthquake precursor", International Journal of Applied Earth Observation and Geoinformation, Vol. 63, 158-166; ISSN- 0303-2434 Publisher- Elsevier, listed at Science Direct [IF 4.003] date 2018.12.15	2017	Int. Jr.		7.67
80	Bhardwaj Anshuman, Singh Shaktiman, Sam Lydia, Bhardwaj Akanksha, Martín-Torres F. Javier, Singh Atar and Kumar Rajesh, (2017), "MODIS-based estimates of strong snow surface temperature anomaly related to high altitude earthquakes of 2015", Remote Sensing of Environment (RSE), Volume 188, January 2017, Pages 1-8, ISSN 0034-4257 Publisher- Elsevier, listed at Science Direct [IF 6.393]	2017	Int. Jr.		13.85
79	Singh Shaktiman, Kumar Rajesh , Bhardwaj Anshuman, Sam Lydia, Shekhar Mayank, Singh Atar Kumar Ramesh, and Gupta Akhilesh (2016), "Changing Climate and Glaciohydrology in Indian Himalayan region: a review", WIREs Climate Change, April 22, 2016; ISBN: 978-81-85867-98-4, Doi: 10.102/wcc.393, publisher- Wiley Periodicals, Inc. [IF 5.124 (2017)]	2016	Int. Jr.		10.07
78	Kumar Rajesh , Singh Shaktiman, Kumar Ramesh, Singh Atar, Bhardwaj Anshuman, Sam Lydia, Randhawa Surjeet Singh and Gupta Akhilesh (2016), "Development of Glacio-hydrological Model for Discharge and Mass Balance Reconstruction", Water Resources Manage 30:3475 (DOI 10.1007/s11269-016-1364-0) - Published for the European Water Resources Association (EWRA), ISSN 0920-4741 [2016.05.30] [IF 2.848]	2016	Int. Jr.		4.42
77	Bhardwaj Anshuman, Sam Lydia, Singh Shaktiman and Kumar Rajesh (2016), Automated detection and temporal monitoring of crevasses using remote sensing and their implications for glacier dynamics, Annals of Glaciology 57(71) 2016 doi: 10.3189/2016AoG71A496, [IF: 2.38, 2015] [2016.01.01] ISSN 0260-3055 (Print), Publisher- International Glaciological Society (IGS)	2016	Int. Jr.		2.86
76	Bhardwaj Anshuman, Sam Lydia, Akanksha, Martín-Torres F. Javier, and Kumar Rajesh (2016), UAVs as remote sensing platform in glaciology: Present applications and future prospects, Remote Sensing of Environment 175 (2016) 196-204 [IF: 6.393, 2015] [2016.01.01]	2016	Int. Jr.		13.85

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74	Sam Lydia, Bhardwaj Anshuman, Singh Shaktiman, Kumar Rajesh (2015). Remote sensing flow velocity of debris-covered glaciers using Landsat 8 data Remote sensing in glacier velocity estimation and a novel approach for debris-covered glaciers. Progress in physical geography pp. 1-17; 1477-0296 (web); (SAGE publication; DOI: 10.1177/0309133315593894). (IF: 4.492) [2015.07.13]	2015	Int. Jr.		4.28
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72	Bhardwaj Anshuman, Singh Mritunjay Kumar, Joshi P K, Snehmani, Singh Shaktiman, Sam Lydia, Gupta R D and Kumar Rajesh, (2015), "A lake detection algorithm (LDA) using Landsat 8 data: a comparative approach in glacial environment" <i>International Journal of Applied Earth Observation and Geoinformation</i> (Elsevier) 38, 150-163 [http://dx.doi.org/10.1016/j.jag.2015.01.004] (IF: 2.539) [2015.01.09]	2015	Int. Jr.		7.67
71	Bhardwaj Anshuman, Joshi PK, Snehmani, Sam Lydia, Singh Mritunjay Kumar, Singh Shaktiman and Kumar Rajesh , (2015), "Applicability of Landsat 8 data for characterising glacier facies and supraglacial debris" <i>International Journal of Applied Earth Observation and Geoinformation</i> (Elsevier) 38 (2015) 51-64 [http://dx.doi.org/10.1016/j.jag.2014.12.011] (IF: 2.539) [2015.01.09]	2015	Int. Jr.		7.67
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69	Kumar Rajesh , Singh Shruti, Randhawa S. S., Singh K. K. and Rana J. C., (2014), "Temperature trend analysis in the glacier region of Naradu Valley, Himachal Himalaya, India", <i>Comptes Rendus Geoscience</i> (Elsevier), Vol. 346, 213-222 (http://linkinghub.elsevier.com/retrieve/pii/S1631071314001126) (IF: 1.652). [2014.10.30]	2014	Int. Jr.		
68	Sharma Pankaj, Rana J. C., Devi Usha, Randhawa S. S., and Kumar Rajesh , (2014), "Floristic Diversity and Distribution Pattern of Plant Communities along Altitudinal Gradient in Sangla Valley, Northwest Himalaya", <i>The Scientific World Journal</i> , Volume 2014, Article ID 264878, 11 pages, (http://dx.doi.org/10.1155/2014/264878) [IF: 1.73]. [2014.10.14]	2014	Int. Jr.		

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63	Berthier E., Arnaud Y., Kumar Rajesh, Sarfaraz A., Wagnon P., and Chevallier P. (2007), "Remote sensing estimates of glacier mass balances in the Himachal Pradesh (Western Himalaya, India)", Remote Sensing of Environment, 108 (2007); 327-338. [IF: 6.393].	2007	Int. Jr.		13.85
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61	Kumar Rajesh, Singh K. K., Gupta B.R.D., Baxla A. K., Rathore L. S. and Attri S.D. (2002), "Optimum Sowing dates for Soybean in central India using CROPGRO and ClimProb Symbiosis" Journal of Meteorological Applications, Royal Met. Society, vol. 9; 247-254. [IF: 1.518].	2002	Int. Jr.		2.45
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57	Sharma RK., Kumar R., Pradhan P., Sharma A (2022) Climate-Induced Glacier Retreats and Associated	2022	Int Sprin		

	Hazards: Need for Robust Glaciers and Glacial Lake Management Policy in Sikkim Himalaya, India		ger Natu re		
56	Arif M., Kumar R., Kumar R., Zusman E. (2022) "Emission of black carbon and other particulate matter from transportation sector" In Asian Atmospheric Pollution, pp. 393-408, Elsevier, 2022. Edited by Ramesh P Singh Online 30.08.2021	2022	Int Elsev ier	Chapter	
55	Chauhan A., Kumar R. Liou Yuei-An, and Singh R. P. "Effect of cyclones on atmospheric and meteorological parameters." In Asian Atmospheric Pollution, pp. 521-547. Elsevier, 2022. Edited by Ramesh P Singh, Online 30.08.2021	2022	Int Elsev ier	Chapter	
54	Randhawa S.S., Dhar S., Rathore B. P., Kumar R., Thakur N., Rana P., Rana D. C., and Taloor A. K., (2021) "Moraine Dammed Lakes Inventory in Satluj, Ravi, Chenab and Beas Basins of Himachal Pradesh, India, in book 'Water Cryosphere and Climate Change in the Himalayas Geography of the Physical Environment, Springer Nature., pp 129-144, Edited by A. K. Taloor et al. (eds.) https://doi.org/10.1007/978-3-030-67932-3_8 online 27.05.2021	2021	Int Sprin ger Natu re	Chapter	
53	Mohammad Arif, Rajesh Kumar , Shagufta Parveen, Kamlesh Kumar Singh, and Jagvir Singh Reduction in Environmental Pollution Due to Lockdown in the COVID-19 Pandemic: A Case Study of Delhi-NCR, IGI Global, pp 239-255, Edited by Vikash Kumar and Geetika Malhotra DOI: 10.4018/978-1-7998-7495-9.ch015 (Book Chapter)	2021	Int IGI Glob al	Chapter	
52	Bhardwaj Anshuman, Kumar Rajesh, and Sam Lydia (2019), "Analysing Geospatial Techniques for Land degradation Studies in Hindu Hush-Himalaya", Editors A. Saikia and P. Thapa (eds.), Environmental Change in the Himalayan Region, http://doi.org/10.1007/978-3-030-03362-0_6	2019	Int	Chapter	NA
51	Sam Lydia, Kumar Rajesh, and Bhardwaj Anshuman (2019), "Climate and Remotely Sensed Markers of Glacier Changes in the Himalaya", Editors A. Saikia and P. Thapa (eds.), Environmental Change in the Himalayan Region, http://doi.org/10.1007/978-3-030-03362-0_4	2019	Int	Chapter	NA
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43	Kumar Rajesh (2011), "Glacieret", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 436.	2011	Int	Chapter	NA
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41	Kumar Rajesh (2011), "Glaciofluvial", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 437.	2011	Int	Chapter	NA
40	Kumar Rajesh (2011), "Glaciogenic Deposits", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 437.	2011	Int	Chapter	NA
39	Kumar Rajesh (2011), "Gravity Flow (Mass Flow)", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 477.	2011	Int	Chapter	NA
38	Kumar Rajesh (2011), "Lake Ice", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 686.	2011	Int	Chapter	NA

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36	Kumar Rajesh (2011) , "Layering of Snow", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 713.	2011	Int	Chapter	NA
35	Kumar Rajesh (2011) , "Little Ice Age", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 722.	2011	Int	Chapter	NA
34	Kumar Rajesh (2011) , "Lobe", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 722.	2011	Int	Chapter	NA
33	Kumar Rajesh (2011) , "Marginal Ice Zones", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 724.	2011	Int	Chapter	NA
32	Kumar Rajesh (2011) , "Marine Glaciers", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 725.	2011	Int	Chapter	NA
31	Kumar Rajesh (2011) , "Marine Ice Sheet", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 725.	2011	Int	Chapter	NA
30	Kumar Rajesh (2011) , "Mechanical Weathering", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 725.	2011	Int	Chapter	NA
29	Kumar Rajesh (2011) , "Meltwater Erosion", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth Sciences Series (ISBN: 978-90-481-2641-5), Published by Springer, Netherlands, pp. 738.	2011	Int	Chapter	NA
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26	Kumar Rajesh (2011) , "Neoglaciation", In: Encyclopedia of Snow Ice and Glaciers, edited by Singh, V.P., Singh P., Haritashya U.K., Encyclopedia of Earth	2011	Int	Chapter	NA

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24	Kumar Rajesh , Hasnain S I., Wagnon P, Arnaud Y, Chevallier P Linda A, Sharma P. (2007), "Climate Change signals detected through mass balance measurements on benchmark glacier, Himachal Pradesh, India", In: Climatic and anthropogenic impacts on the variability of water resources, G. Mahé (Sci. Ed.), Technical Document in Hydrology No. 80, UNESCO Paris /UMR 5569 Ed.; 65-74	2007	Int	Chapter	NA
23	Mohammad Arif, Rajesh Kumar, Afaq Ahmad (2016), Household Energy: a study of Sitapur, India, International Journal of Advanced Information Science and Technology (IJAIST), Vol.50, No.50, June 2016, ISSN: 2319:2682, UGC Approved	2016	Nat. Jr.		
22	Lydia Sam, Anshuman Bhardwaj, V S P Sinha, P K Joshi and Rajesh Kumar (2016), Use of Geospatial Tools to Prioritise Zones of Hydro-Energy Potential in Glaciated Himalayan Terrain, Journal of the Indian Society of Remote Sensing, pp 1-12, DOI 10.1007/s12524-015-0520-y, ISSN 0974-3006 [IF:0.764, 2015] [2016.02.06], Publisher - Springer [06.02.2016]	2016	Nat. Jr.		0.764
	National Journal				
21	Ali, S. N., Singh, R., Morthekai, P., Sharma, A., Phartiyal, B., Quamar, M. F., Kumar, R. , & Arora, P. (2022). Perception of climate change from the Himalayan 'cold desert' Ladakh, India. Journal of Palaeosciences, 71(1), 89-111. https://doi.org/10.54991/jop.2022.35 .	2022	Nat. Jr.		
20	Singh Shruti, Kumar Rajesh , Singh Jagvir and Singh Ranjeet (2015) Clean Development Mechanism to Reduce Green House Gases, Invertis Journal of Renewable Energy (IJRE), Vol. 5, No. 2, 2015; pp. 95-104. [2015.03.30]	2015	Nat. Jr.		
19	Kumar Rajesh , Kumar Niraj, Singh Shaktiman and Gupta Akhilesh (2015) Himalayan Wetlands under threat to Climate Change, Invertis Journal of Renewable Energy (IJRE), Vol. 5, No. 1, 2015; pp. 47-59 [2015.03.30]	2015	Nat. Jr.		
18	Kumar Rajesh and Singh Shruti, (2012) "Different Market Based Mechanism to Reduce Green House Gases", J. Sci. & Tech. Res. (ISSN No. 2278-3350), Vol. 2; No. 2, pp. 87-91. [2012.12.30]	2012	Nat. Jr.		
17	Singh Shaktiman, Kumar Rajesh , Vishnu Murari, Mukesh Kumar and Ajay Kumar Gupta (2012), "Sewage Treatment Plants: Case Studies of Patna, Bihar (India)", J. Sci. & Tech. Res. (ISSN No. 2278-3350), Vol. 2; No. 1, pp. 82-85. [2012.06.30]	2012	Nat. Jr.		
16	Kumar Rajesh and Arif Md. (2011), "Assessment of Air quality in Delhi", Journal of Scientific and Technical	2011	Nat. Jr.		

	Research. (ISSN No. 2278-3350), Vol. 1 (1); pp. 20-24. [2011.12.30]				
15	Kumar Rajesh , Singh Shruti and Singh R.A. (2011), "Reduction of CO ₂ Emission: using Biodiesel", J. Sci. & Tech. Res. (ISSN No. 2278-3350), Vol. 1 (1); pp. 41-44.	2011	Nat. Jr.		
14	Vatsa Madhuranjan, Chakarabarti Milindo, Kumar Rajesh and Mishra S. K. (2011), "Green Marketing: A new Marketing Orientation in India" J. Sci. & Tech. Res. (ISSN No. 2278-3350), Vol. 1 (1); pp. 55-59.	2011	Nat. Jr.		
13	Tripathi C.N., Kumar Rajesh and Singh K.K. (2011), "Markov Probability analysis of rainfall for rice crop planning in Indo-Gangetic plains", Nava Gavesana (ISSN: 0976-9455), Vol. 2 (1), pp 17-25. [IF: 0.410].	2011	Nat. Jr.		
12	Kumar Rajesh , Singh R.C., Singh Sandeep, Singh, Anupriya and Sneha (2011), "Non-Conventional Energy Resources for Controlling Environmental Pollution and Save Earth", Invertis Journal of Renewable Energy, Vol. 1, No. 1; 1-7.	2011	Nat. Jr.		
11	Kumar Rajesh , Punia M.P., Singh K.K., Singh R., Singh P. and Kumari Lipi (2010), "Sustainable Development and Management of Water Resources of Rajasthan", Nava Gavesana (ISSN: 0976-9455), Vol. 1 (1), pp 40-49. [IF: 0.410].	2010	Nat. Jr.		
10	Singh Rajesh, Kumar Rajesh , Chaudhary Naresh (2010), "Study of Land Use/ Land Cover Dynamics using Multi-temporal Satellite Data and GIS for Anasagar Catchment Area in Ajmer, India", Nava Gavesana (ISSN: 0976-9455), Vol. 1, No. 1; 07-13[IF: 0.410].	2010	Nat. Jr.		
9	Kumar Rajesh and Singh Ramesh P. (2010), "Understanding Climate Change from Glaciers", Commodity Vision, Vol. 3, No. 6; 46-51.	2010	Nat. Jr.		
8	Tripathi C. N., Singh K.K. and Kumar Rajesh (2007), "Simulating the response of rice yield to climate variability in Indo-Gangetic plains" The Researcher, Vol. 01, No. 02-03, (April-September, 2007); 62-66.	2007	Nat. Jr.		
7	Kumar Rajesh , Singh K. K., and Sarkar S. K. (2005), "The usefulness of medium range weather forecast in improving the quality of output from CROPGRO-Soybean model" MAUSAM, Vol. 56, 4 (October, 2005); 877-882. [IF: 0.152].	2005	Nat. Jr.		0.467
6	Sarkar S. K., Kumar Rajesh , Ahmed I, Gupta M. M., Prasad M.V.S.N., Das J. and De A. K. (2004), "Rain attenuation and performance deterioration of a communication link at Ka band over Indian tropical eastern region", Indian Journal of Radio and Space Physics, Vol.33, (June, 2004); 176-179.	2004	Nat. Jr.		
5	Sarkar S. K., Kumar Rajesh , Ahmed I., Gupta M. M., Prasad M.V.S.N. and De A. K. (2003), "Rain structure estimation from X-band radar reflectivity measurements for radio system applications in microwave and millimetre wave frequency bands", Indian Journal of Radio and Space Physics, Vol. 32, (April, 2003); 98-103.	2003	Nat. Jr.		
4	Sarkar S. K., Megha Raju K., Punyaseshudu D., Gupta M. M., Kumar Rajesh and Prasad M.V.S.N. (2001), "Multipath effect on a line of sight microwave link", Indian Journal of Radio and Space Physics, Vol. 30, (August, 2001); 194-197.	2001	Nat. Jr.		

3	Kumar Rajesh* , Gupta, B.R.D., Athyaman B., Singh K. K. and Shukla R. K. (1999), "Stepwise Regression technique to predict the peigionpea yield in Varanasi District" Journal of Agrometeorology, Vol. 1, No. 2; 183-186. [IF: 0.162].	1999	Nat. Jr.		0.162
2	Singh K. K., Kumar Rajesh , Mall R. K., Rathore L. S., Sankar Upendra, Gupta B.R.D. (1999), "Soybean Yield Prediction from current and historical weather data using CROPGRO-Soybean model" Indian Journal of Agricultural Sciences, Vol. 69, No. 9; 639-43. [IF: 0.18].	1999	Nat. Jr.		0.18
	Chapters in Books (NATIONAL)				
1	Kumar Rajesh* , Singh Shaktiman, Kumar Ramesh, Singh Atar and Bhardwaj Anshuman, (2016), "Impact of Changing climate in snow-glacial streams of Himachal Himalaya", in a book "Water and sustainable development" by Ajai Singh et al., New Delhi Publishers, New Delhi (ISBN: 978-93-85503-22-1)	2016	Nat	Chapter	NA

Name of the Teacher Prof. Rajesh Kumar
Individual Faculty Information for the years 2019-22
Department of Environmental Science
Central University of Rajasthan, Ajmer

Sr. No.	Description	Information
1	Designation	Professor
	Total experience	23 years
2	Total teaching experience	13 Years
3	Date of joining the Department/ School	9 July 2019
4	Qualifications	M.Sc., Ph.D.
5	Whether recognised as a Ph.D. guide?	Yes
6	Number of students awarded for Ph.D./M.Phil.	Ph.D.: 13 M.Phil: 00
7	Number of students registered for Ph.D. / M.Phil.	Ph.D.: 05 M.Phil: 00
8	Major research projects completed (7)	Amount in Rs. 2,48,70,200/-
9	Major research projects ongoing (2)	Amount in Rs. 73,40,410/-
10	*Minor research projects completed (Amount in Rs.)	Amount in Rs. NIL
11	Minor research projects ongoing (Amount in Rs.)	Amount in Rs. NIL
12	Papers published in peer-reviewed journals (Cumulative & average Impact Factor)	Cumulative: 18 Average : 2.35
13	Papers published in UGC-approved journals	Cumulative: 18 Average : 2.35
14	Papers published in proceedings of conferences	06
15	No. of Patents filed /granted	NA
16	Books published (Authored & Edited)	Authored: NIL Edited : NIL
17	Chapters published in Books	07
18	No. of conferences, seminars & workshops participated	06

19	No. of conferences, seminars & workshops presented papers	00
20	Number of conferences, seminars & workshops-Invited as Resource person	14
21	Number of conferences, seminars & workshops-Chaired sessions	02
22	Number of Awards received at State, National & International levels (offered for being excellent)	00
23	Number of Prizes received at State, National & International levels (offered in competition/contests)	00
24	Number of recognitions received at State, National & International levels (Fellow of academies)	00