


Brief CV of Professor H C Nainwal

Designation:	Dr. Harish Chandra Nainwal			
Department:	Professor			
Campus:	Geology			
Address:	Srinagar			
Telephone:	Department of Geology H.N.B. Garhwal University Srinagar Garhwal, 246174 Uttarakhand, India			
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	nainwal61@gmail.com nainwalhc@yahoo.co.in			
Education Qualifications:	M. Sc. (Geology), D.Phil. (Geology)			
Teaching Experience:	34 Years	Research Experience:	36 Years	
Research Interest and Fields of Specialization:				
<ul style="list-style-type: none"> • Glaciology • Engineering Geology • Natural hazards 				
Honours/Awards/Recognitions:				
<ul style="list-style-type: none"> • Peer Reviewer for Science of the Total Environment (Elsevier), Current Science, Journal of Earth System Science, Geological Society of India, Journal of Quaternary International, International Journal of Applied Remote Sensing and GIS • Convener, IQAC-Task Group III-Research Innovation and Extension, HNB Garhwal University, Srinagar Garhwal, 2019-21 • Reviewer for the research project funded by MHRD under RUSA program to University of Rajasthan, Jaipur, October, 2019 • Regular Member, G-6 Committee: Disaster Management Committee, Indian Road Congress, New Delhi, 2018-2020 • Member, Editorial Board cum Reviewer, International Journal of Applied Remote Sensing and GIS, 2016 • Editor in Chief, Himalayan Review Journal (ISSN: 2348-4942), 2014 • Editor, Uttarakhand Year Book • Member, Development of Ice core program for Himalayan glaciers, Indian Institute of Science, Bangalore & DST-GOI, New Delhi, 2014 • Member, Programme Advisory Committee on Himalayan Glaciology (PAC-HG), DST-GoI, New Delhi, 2012-2014 • Resource Person/Expert Trainer in the DST (GoI) Indo-Swiss Capacity Building Programme in Himalayan Glaciology organized by DST-GoI & School of Environmental Sciences, Jawaharlal Nehru University, New Delhi, 2013 • Member, Expert Committee on Management and Mitigation of glacial risks, Govt. of Uttarakhand, Dehradun, 2006 • Geological consultant for road alignment / construction, Govt. of Uttarakhand, Dehradun, 2005 				

- JRF and SRF, Central Building Research Institute-CSIR, Roorkee, 1982 & 1985
- 1st Position in M.Sc. Geology (1982) in the order of merit of the Garhwal University, Srinagar, 1982

Member of Academic Institutions:

- Member, Executive Council, Banaras Hindu University, Varanasi, 2018-2021
- Member, Academic Council, HNB Garhwal University, Srinagar Garhwal, 2015-2018
- Chairman, Board of Studies (Geology), HNB Garhwal University, Srinagar Garhwal, 2015-2018
- Member, School Board in Earth Sciences, HNB Garhwal University, Srinagar Garhwal, 2015-2018
- Member, Board of Studies, (Geology), HNB Garhwal University, Srinagar Garhwal, 2007 to 2008 and 2011 to Present
- Member, Board of Studies, (Physics & Biotechnology), HNB Garhwal University, Srinagar Garhwal, 2015 to Present
- Member, Board of Studies, (Geography), HNB Garhwal University, Srinagar Garhwal, 2015 to 2020.
- Member, Executive Council, Uttarakhand Technical University, Dehradun, 2009-2011
- Member, Academic Council, Uttarakhand Technical University, Dehradun, 2009-2011
- Chairman of Sport Council of Uttarakhand Technical University from 2009 to 2011.
- Member of Board of Studies (BOS) of Pt. LMS Govt. Autonomous College Rishikesh, 2012-14 & 2018 to Present.

Involvement with formulations of academic programs:

- Formulated syllabus of B.Sc. CBCS Geology pass program of HNB Garhwal University as Chairman Board of Studies in Geology, 2015
- During various academic year, formulated M. Sc. Geology syllabus of HNB Garhwal University Srinagar as Chairman and Member of BOS Geology
- Formulated M.Sc. Geology syllabus of Doon University, Dehradun, Uttarakhand, 2018
- Formulated M.Sc. Geology syllabus of Sri Dev Suman University, New Tehri, Uttarakhand as Convener, 2018
- Formulated M.Sc. Geology syllabus of Govt. PG Degree College Rishikesh, Uttarakhand, 2020.

Research guidance of students under my supervision:

1. Thesis awarded: 14
2. Student Registered for Ph.D.: 04
3. M. Sc. Dissertation: More than 50

Research Projects:15

- The State and Fate of Himalayan glaciers in Upper Alaknanda Basin, Central Himalaya, India funded by Department of Science & Technology (SPLICE Climate Change Program), Govt. of India, New Delhi (ongoing), 2019-2022
- Integrated studies of Himalayan Cryosphere using space based inputs, funded by Space Applications Centre (ISRO-GoI), Ahmedabad (ongoing), 2018-2020
- Understanding of hydrological process in Upper Ganga Basin by using Isotopic Technique funded by National Institute of Hydrology, Roorkee (Under NMSHE Mission) (ongoing), 2017-2022
- Estimation of ice thickness and surface velocity using GPR and DGPS on Satopanth Glacier funded by SERB-Department of Science & Technology, Govt. of India, New Delhi, 2014-2019
- Glaciers in Upper Alaknanda-Sarswati Basin and Climate Change funded by Institute of Mathematical Sciences (DoAE-GoI) Chennai, 2014-2019
- Study of Snow and glacier funded by Space Applications Centre (ISRO-GoI), Ahmedabad, 2007-2010
- Paleo-glaciation studies of upper Alaknanda catchment with special reference to pro-glacial geomorphology of Satopanth and Bhagirath Kharak glaciers funded by Department of Science & Technology, Govt. of India, New Delhi, 2005-2008
- Development of photogrammetric methods for mass balance estimation of glaciers using CARTOSAT-I stereo data funded by Space Applications Centre (ISRO), Govt. of India, Ahmedabad, 2005-2007
- Micro-zonation of slope instability using SMR approach - a case study along Rishikesh-Gangotri road (from Chinyalisaur to Uttarkashi), Bhagirathi valley, Uttaranchal Himalaya funded by G.B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora, 2003-2006
- Study of some landslides along Main Central Thrust (MCT) in Mandakini valley & their relationship with neo-tectonic activities funded by Department of Science & Technology, Govt. of India, New Delhi, 1994-1997
- Geological appraisal of landslides in a part of Alaknanda valley, Garhwal Himalaya funded by University Grant Commission, New Delhi, 1994-1995
- Geohydrology of Springs in Garhwal funded by G.B. Pant Institute of Himalayan Environment and Development, Kosi-Katarmal, Almora, 1991-1994
- Analysis of environmental degradation in Upper Alaknanda-Dhauliganga catchment, Garhwal Himalaya, with special reference to landslide, soil erosion and environmental conservation funded by Department of Environment, Govt. of Uttar Pradesh, Lucknow, 1989-1992
- Instrumentation and monitoring work at Kaliasaur landslide zone, Garhwal Himalaya funded by Central Building Research Institute (CSIR), Roorkee, 1986-1987
- Eco-development project on Kaliasaur landslide area, Garhwal Himalaya funded by Central Building Research Institute (CSIR), Roorkee, 1985-1986

Administrative Experience:

- Head, Department of Geology, HNB Garhwal University, Srinagar Garhwal, Jan. 2015 to Jan. 2018
- Worked as Coordinator, M.Phil./Ph.D. Entrance Test-2017, H.N.B. Garhwal University, Srinagar Garhwal, Uttarakhand
- Chief Election Officer of Student Union Election of Birla Campus and Apex Body of students HNB Garhwal University 2014-15.
- Member of UGC Expert Committee for the conferment of Autonomous Status of Dehradun Institute of Technology, Dehradun, 2011
- Acting Vice Chancellor/OSD, Uttarakhand Technical University, Dehradun for a period of one month (Dec. 2008)
- Pro-Vice Chancellor and Controller of Examinations, Uttarakhand Technical University, Dehradun for a period of three years from 2009 to 2011.
- Assistant Dean Student Welfare (Session 1998-1999 & 2000-01), HNB Garhwal University, Srinagar Garhwal
- Assistant Proctor of the University (Sessions 1991-92, 1993-94, 1996-97, 2002-04), HNB Garhwal University, Srinagar Garhwal

Scientific Visits/Meetings**Abroad**

1. Attended Joint bilateral workshop on evolution of debris covered glaciers at University of Zurich, Zurich, Switzerland, 03-12 September, 2019
2. Attended 5th Third Pole Environment conference and Sino-German Workshops organized by Senckenberg Nature Research Institute and University of Tuebingen, Berlin, Germany, 8-12 December, 2014
3. Attended a workshop organized by University of Nebraska, USA at ICIMOD, Kathmandu, Nepal, 31 March to 3 April, 2008

Conference/Symposium/Workshop Attended during last five years (2014-2019):**International:**

- Delivered a invited talk in First Indian-Danish workshop on Arctic and Alpine Aquatic Science - Implications of climate change on proglacial freshwater ecosystems functioning and services organized by Department of Zoology, HNBSGU Srinagar, 11 October, 2019
- Panelist on Cryosphere and water security session in international summit on Water Future-towards a sustainable water future organized by Indian Institute of Science, Bangalore, 24-25 September, 2019
- Attended Joint bilateral workshop on evolution of debris covered glaciers at University of Zurich, Zurich, Switzerland, 3-12 September, 2019
- Attended the first meeting of Upper Indus Basin Network Chapter (UIB-NC) organized by International Centre of Integrated Mountain development (ICIMOD) and co-hosted SES-JNU New Delhi at India Habitat Centre, New Delhi, 19 April, 2019.
- Invited talk in International Conference: State of the Cryosphere in the Himalaya: With a focus on Sikkim and eastern Himalayas - gaps, challenges and opportunities, Gangtok, Sikkim, 19-20 February, 2018

- Keynote speaker in Joint bilateral workshop on evolution of debris covered glaciers organized by HNB Garhwal University, Srinagar Garhwal, India, 11-13 June, 2018
- Attended the Asian Ministerial Conference on Disaster Risk Reduction (AMCDRR) hosted by National Institute of Disaster Management (Ministry of Home Affairs) Government of India, New Delhi, 2-6 November, 2016
- Keynote speaker in International conference on Global Environment change in the Himalayan region: controversies, impacts, futures organized by Heidelberg University Germany at New Delhi, 6-8 November, 2015
- Keynote speaker in International workshop on climate change and adaptation in Himalaya organized by Department of Geography, Kumaon University, Nainital, 2-3 November, 2015
- Invited talk in the 5th Third Pole Environment organized by Senkenberg Nature Research Institute and University of Tuebingen, Berlin, Germany, 8-12 December, 2014

National:

1. Participated in a meeting on Evolution of Cryosphere Program in Indian Himalaya of DST (GOI) New Delhi at Divecha Centre for Climate Change, Indian Institute of Science, Bangalore, 24 April, 2019
2. Delivered a talk in the International conference on State of the Cryosphere in the Himalaya With a focus on Sikkim and eastern Himalayas- gaps, challenges and opportunities, Sikkim University, Gangtok, 19-20 February 2018
3. Presented a lecture on Lesson from failures of roads and bridges in the high altitude areas in 2nd Meeting of Disaster Management Committee (G-6), IRC Bhawan, RK Purum, New Delhi, 27 July, 2018
4. Invited talk in National Conference on Himalayan Cryosphere organized by Indian Institute of Science, Bangalore, 23-24 January, 2017, Also chaired a session in this conference
5. Attended 5th Group Monitoring Workshop & 6th meeting of the Program Advisory Committee for Earth and Atmospheric Sciences, SERB, DST, New Delhi, at Institute of Seismological Research, Gandhinagar, Gujarat, 18-20 September, 2017
6. Attended Symposium on Higher Education: Challenges, Best Practices and Social Accountability, organized by SDSU University and HNBGU Srinagar, 23 May, 2017
7. Delivered a key note talk in National Conference on Lakes Rivers and Wetlands Climate Change Perspectives, Department of Earth Sciences, Annamalai University, Tamilnadu, 29 March, 2016, Also chaired a session in this conference
8. Delivered a talk in National Conference on “Science and Geopolitics of Arctic & Antarctic” organized by SaGAA, India International Centre, Max Mueller Marg, New Delhi, 29-30 September, 2015
9. Delivered a talk on Landslides risk in Higher Himalayan terrain in Round table meeting on Landslide risk reduction organized by INAE Forum on Engineering Intervention in Disaster Mitigation at CSIR-Central Road Research Institute, New Delhi, 4 November, 2015
10. Delivered an interactive lecture in the training program entitled climate change and carbon mitigation organized by Indian Council of Forestry Research and Education, Dehradun to the scientists and technologists working in government sectors, 05 January, 2015

11. Attended the National Seminar on climate change, resources, bio-diversity and environmental challenges: issues and strategies for sustainable development, Organized by Department of Geography, HNB Garhwal University, Srinagar Garhwal, Uttarakhand, 28-30 October, 2015
12. Attended the National Conference on Microbes in extreme environments: Diversity and translational applications, organized by Department of Botany and Microbiology, HNB Garhwal University, Srinagar Garhwal, 30 October, 2015
13. Attended a workshop on Estimation of glacier stored water in the Himalaya organized by Indian Institute of Science, Bangalore, 11-12 November, 2014
14. Delivered a talk in the National Conference of Himalayan Glaciology (NCHG-2014), organized and hosted by SERB, DST New Delhi and HP State Centre on climate change at Shimla, Himachal Pradesh on 30-31 October 2014. Also chaired a technical session IV during the above mentioned conference.
15. Delivered an invited talk in a seminar on Unpacking the climate crisis- held at St Pius College, Goregaon, East Mumbai organized by Tata Institute of Social Sciences, 18 April, 2014
16. Attended a DST sponsored meeting on Development of Ice core program for Himalayan glaciers organized by Indian Institute of Science, Bangalore, 11 April, 2014
17. Delivered an invited talk in National Conference on climate change and social vulnerability assessment organized by Department of Forestry, HNBSGU, Srinagar Garhwal, 19-20 February, 2014
18. Keynote speaker in National symposium on eco-disasters in the Himalayas-causes challenges and management, Department of Environmental Sciences, HNBSGU, Srinagar Garhwal, 15 February, 2014
19. Participated as member in 1st to 6th meetings of Programme Advisory Committee on Himalayan Glaciology of DST (GOI) New Delhi organized at WIHG Dehradun, University of Delhi, PEC Chandigarh, Sikkim State Council for Science and Technology Gangtok, HNBSGU Srinagar and State Council for Science and Environment, Shimla during 2012-2014
20. Attended a collaboration meeting regarding our joint project with IMSc Chennai, IISER Kokatta at Institute of Mathematical Sciences, Chennai, 26-30 March, 2014
21. Delivered an invited talk entitled „Glaciers of Upper Alaknanda Basin and climate change“ in the National Seminar on Geo-environmental hazards and Neotectonic activities in Himalaya, organized by Department of Geology, HNB Garhwal University Campus, Badshahi Thaul, Tehri Garhwal, October 28-30, 2014.
22. Participated in one day State Consultation on Planning and Management of Disasters in Uttarakhand Mountain State organized by Department of Geography HNBSGU Srinagar Garhwal on 19 Jan. 2014.

Conference/Symposium/Workshop Organized:

- Convener, Data Science Meeting and Progressive Workshop organized by Departments of Physics, Rural Technology & Geology under the MOU between HNBGU, Srinagar and IITM, Pune, 02/06/2019 at HNBGU Srinagar Garhwal
- Organized Joint bilateral workshop with University of Zurich, Switzerland; Institute of Mathematical Sciences, Chennai; Indian Institute of Science Educational & Research, Pune and HNBGU Srinagar Garhwal on evolution of debris covered glaciers organized by HNBGU Srinagar Garhwal, India, 11-13 June 2018.
- Member, organising committee of International Conference on ‘Climate Change and Disaster risk Reduction’ held at HNB Garhwal University Campus Badshahi Thaul, Tehri Garhwal Uttarakhand, India, 26-28 October, 2018.
- Member of National organizing committee of National Conference on Himalayan Glaciology (NCHG-2014), organized and hosted by SERB, DST New Delhi and HP State Centre on climate change at Shimla, H.P., 30-31 October, 2014.
- Member of Organising Committee of National Seminar on Geo-environmental hazards and Neotectonic activities in Himalaya, organized by Department of Geology, HNB Garhwal University Campus, Badshahi Thaul, Tehri Garhwal, 28-30 October, 2014.
- Coordinator of 5th Program Advisory and Monitoring Committee on Himalayan Glaciology (PAMC-HG) of Department of Science and Technology, Govt. of India, New Delhi, 20-23 July, 2014, organized at Department of Geology, HNB Garhwal University, Srinagar Garhwal.
- One of the Convener of National Seminar on Uttarakhand disaster: contemporary issues of climate change and development with a holistic approach, organized by Sri Dev Suman Uttarakhand University, Badshahi Thaul, Tehri Garhwal, 25-27 October, 2013.
- Coordinator of 11th Program Advisory and Monitoring Committee on Himalayan Glaciology (PAMC-HG) of Department of Science and Technology, Govt. of India, New Delhi, 21-23 August, 2007.
- Organizing Secretary of Silver Jubilee National Seminar on Geodynamics and Environment Management of Himalaya (GEM-H), organized by Department of Geology, HNB Garhwal University, Srinagar Garhwal, 4-6 December, 2000.

Publications during last five years (2014-2019):

1. Sunil Singh Shah, Argha Banerjee, **H.C. Nainwal** and R. Shankar, 2019, Estimation of the total sub-debris ablation from point-scale ablation data on a debris-covered glacier, *Journal of Glaciology*, 65 (253), 759-769.
2. Khobragade, S. D., Semwal, P., Kumar, A. S. and **Nainwal, H. C.**, 2019, Pan coefficients for estimating open-water surface evaporation for a humid tropical monsoon climate region in India, *Journal of Earth System Science*, 128(7), 175.
3. Sumit Mishra, Vinod K. Singh, Alexander I. Slabunov, **H. C. Nainwal**, Pradip K. Singh, Neeraj Chaudhary and D. C. Nainwal, 2019, Geochemistry and geodynamic setting of Paleoproterozoic granites of Lesser Garhwal Himalaya, India, *Journal of Geoscience, Engineering, Environment and Technology*, Special Vol. 04(1-2), 28-38.
4. Panicker, A.S., Sandeep, K., Gautam, A.S., Gandhi, N., Beig, G., **Nainwal, H. C.**

- and Waghmare, V., 2019, Chemical composition and isotopic signatures of ice and snow over a Himalayan Glacier (Satopanth) in India. *SN Applied Sciences*, 1(10), 1166.
5. Syed Shams Rizvi, **H. C. Nainwal**, Prabhat Semwal, Sarfaraz A. Ansari and Tushar Sharma, 2019, Glacier recession and their impact: some observation from Panpatiya, Bhagnyu bank and Tipra glaciers using Geospatial methods, Uttarakhand, India, *International Journal of Innovative Knowledge Concepts*, ISSN-2454-2415, 7(2), 59-65.
 6. Divya Thakur, S.K. Bartarya and **H.C. Nainwal**, 2018, Mapping groundwater prospect zones in an intremontane basin of the outer Himalaya in India using GIS and remote sensing techniques, *Environmental Earth Sciences*, 77:362, doi.org/10.1007/s12665-018-7552-x.
 7. Shukla, T., Mehta, M., Jaiswal, M.K., Srivastava, P., Dobhal, D.P., **Nainwal, H.C.** and Singh, A.K., 2018, Late Quaternary glaciation history of monsoon-dominated Dingad basin, central Himalaya, India, *Quaternary Science Reviews*, 181, 43-64.
 8. Divya Thakur, S.K. Bartarya and **H.C. Nainwal**, 2018, Groundwater quality assessment of the Soan Basin in Outer Himalaya, Himachal Pradesh, India, *Himalayan Geology*, 39(2), 189-197.
 9. Mishra, A., Negi, B.D.S., Banerjee, A., **Nainwal, H.C.** and Shankar, R., 2018, Estimation of ice thickness of the Satopanth Glacier, Central Himalaya using ground penetrating radar, *Current Science*, 114(4), 785.
 10. Sharma, T., Semwal, P., Shah, S.S., **Nainwal, H.C.** and Mishra, A., 2018, General Geomorphological Field Observations around Satopanth Glacier Area, Garhwal Himalaya, Uttarakhand, *International Journal of Research and Analytical Reviews (IJRAR)*, 5(4), 493-508.
 11. Divya Thakur, S.K. Bartarya and **H.C. Nainwal**, 2018, Tracing ionic sources and geochemical evolution of groundwater in the intermountain Una basin in Outer NW Himalaya, Himachal Pradesh, *Environmental Earth Sciences*, 77:720, doi.org/10.1007/s12665-018-7891-7.
 12. Gambhir Singh Chauhan, **H.C. Nainwal** and Vikram Gupta, 2018, Stability analysis of rock cut slopes along the Minas road between Ichhari Dam and Minas Bridge, Tons valley, Garhwal Himalaya, *Himalayan Geology*, 39(1), 2018, 58-68.
 13. Sourav Laha, Reshama Kumari, Sunil Singh, Aditya Mishra, Tushar Sharma, Argha Banerjee, **Harish Chandra Nainwal**, R. Shankar, 2017, Evaluating the contribution of avalanching to the mass balance of Himalayan glaciers, *Annals of Glaciology*, 58 (75pt2), 110-118.
 14. Chaurasia, A.K., Pandey, H.K., **Nainwal, H.C.**, Singh, J. & Tiwari, S.K., 2017, Stability analysis of rock slopes along Gangadarshan, Pauri, Garhwal, Uttarakhand, *Journal of the Geological Society of India*, 89(6), 689-696.
 15. P. Semwal, S.D. Khobragade and **H.C. Nainwal**, 2017, Modelling of Recent Erosion Rates in a Lake Catchment in the North-Western Siwalik Himalayas, *Environmental Processes*, 4(2), 2017, 355-374.
 16. Alok Sagar Gautam and **H.C. Nainwal**, 2017, Impact of Black Carbon and Other Aerosols on Himalayan Glaciers: A Brief Review, *Journal of Climate Change*, 3(1), 83-92.
 17. Tanuj Shukla, Manish Mehta, Vipin Kumar, **H.C. Nainwal** and D.P. Dobhal, 2017, Application of the Schmidt-Hammer with relative-age dating of moraine boulders-a case study from Mandakini River valley, central Himalaya, India, *Himalayan*

Geology, 38(2), 184-192.

18. **H.C. Nainwal**, A. Banerjee, R. Shankar, P. Semwal and T. Sharma, 2016, Shrinkage of Satopanth and Bhagirath Kharak Glaciers, India, from 1936 to 2013, *Annals of Glaciology*, 57(71), 131-139.
19. Khobragade, S.D., Semwal, P., Kumar, A.R.S. and **Nainwal, H.C.**, 2016, Significance of Evaporation in Water Availability of Shallow Sub-tropical Lake in India, *Octa Journal of Environmental Research*, 4(3), 252-263.
20. Rawat, Suman, Gupta, A.K., Songode, S.J., Srivastava, P., **Nainwal, H.C.**, 2015, Late Pleistocene–Holocene vegetation and Indian summer monsoon record from the Lahaul, Northwest Himalaya, India, *Quaternary Science Reviews*, 114, 167-181.
21. Rawat, Suman, Gupta, A.K., Srivastava, P., Songode, S.J. and **Nainwal, H.C.**, 2015, A 13,000 year record of environmental magnetic variations in the lake and peat deposits from the Chandra valley, Lahaul: Implications to Holocene monsoonal variability in the NW Himalaya, *Palaeogeography Palaeoclimatology Palaeoecology*, 440, 116-127, 2015.
22. Rupal M. Brahmhat, **H.C. Nainwal** and A.V. Kulkarni, 2014, Impact of accumulation area ratio on glacial change: A few examples of Jammu and Kashmir, *Journal of Geomatics*, Vol 8(1), 61-65.
23. G. Senthilkumar, A.L. Ramanathan, **H.C. Nainwal** and S. Chidambarm, 2014, Hydro-geochemical characteristics and evolution of coastal groundwater at Cuddalore area, Tamilnadu, India, *International Journal of Engineering Research and General Science* (ISSN 2091-2730), Volume 2(2), 235-244.

Proceedings/Chapter in Books:

1. Sumit Mishra, Pradip Kumar Singh, Vinod Kumar Singh, Alexander Slabunov, **H.C. Nainwal** and Neeraj Chaudhary, 2018, Neoproterozoic Granitoids of Bundelkhand Craton, India: Geochemistry and Geodynamic Settings, *In: Earth Crust Evolution (From Precambrian to Recent Ed., Dr. VK Singh)* Crimson Publishers, ISSN 25771949, DOI: 10.31031/AAOA.2018.03.000565.
2. **H.C. Nainwal**, Tushar Sharma and Prabhat Semwal, 2014, Field evidences of damming of river Alaknanda at Laxmivan, upper Alaknanda valley, Garhwal Himalaya, *In: Uttarakhand Disaster: contemporary issues of climate change and development with a holistic approach (Eds. Dr. U.S. Rawat & Dr. V.P. Semwal)*, Winsar Publishing Co. Dehradun (ISBN No. 978-81-86844-58-8), 50-59.

Books:

H.C. Nainwal and C. Prasad, *Geodynamics and Environment Management of Himalaya*, Published by Department of Geology, HNB Garhwal University Srinagar Garhwal, Uttaranchal, 2002, 311 pages.

Total Number of Research Publications:74

1. Papers Published in national/ International Referred Journals: 45
2. Papers Published in the proceedings of Seminar/Conferences: 29
3. Scientific/Technical Reports submitted: 14