

Kumaun University, Nainital

Curriculum Vitae

Name : Santosh Kumar
Designation : Professor
Department : Geology (Centre of Advanced Study)
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Scopus ID : 7405768514
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Educational Qualification

Degree	University	Subjects	Year
Ph.D.	Comenius University, Bratislava*	Geochemistry	1991
Certificate in Language	Comenius University, Bratislava*	Slovak	1989
Ph.D.	Banaras Hindu University, Varanasi	Geology	1995
P.G. Diploma	Banaras Hindu University, Varanasi	Spectroscopy	1987
M.Sc.	Banaras Hindu University, Varanasi	Geology	1983
M.Sc.	Banaras Hindu University, Varanasi	Geography (Land & Water Resources)	1981
B.Sc.	Banaras Hindu University, Varanasi	Geology, Geography, Chemistry	1979

*Sponsored by External Scholarship Division, Ministry of Education, Govt. of India

Work Experience (add row if required)

Position	Department	University/Organization	Year
Professor of Geology	Geology	Kumaun University, Nainital	1999-
Reader in Geology	Geology	Nagaland University (A Central University), Kohima Campus, Kohima	1997
Research Scientist, Research Associate, Pool Scientist	Geology	Banaras Hindu University Varanasi	1992
Scientific/Project Officer	Department of Additional Sources of Energy, Govt. of UP	Non-Conventional Energy Development Authority	1987

Administrative Responsibilities (add row if required)

Position	Nature of responsibility	University/Organization	Year
Head, Department of Geology	Updating curriculum, teaching and administrative duties, implementing academic policies, coordinating with teachers and students, and resource mobilization etc.	Kumaun University, Nainital	2012-2015
Director, Internal Quality Assurance Cell (IQAC)	Framing and execution of parameters/ benchmarks for quality improvement in teaching, research, and administration etc.	Kumaun University, Nainital	2009-2017 2023-
Coordinator, UGC-Centre of Advanced Study in Geology Phase-I & II	Coordinating the advanced research programme on major thrust area: crustal architecture and evolution of Himalayan Orogen	Kumaun University, Nainital	2011-2023
Dean, Faculty of Science Chairman, Faculty Board	Monitor the academic integrity, student admission, academic progress, curriculum and pedagogy review etc.	Kumaun University, Nainital	2015-2018
Member, Executive Council	Execute the powers necessary to administer the University as per the provisions made in the Act and the Statutes of university	Kumaun University, Nainital	2014-16
Member, Board of Studies (BoS)/RDC in Geology	Revise/update the syllabi contents, review and approve the PhD/DSc synopsis, and panelling the experts in the subject field.	NEHU, Shillong, Nagaland University, Kumaun University IGNOU, HS Gour Sagar University, Bundelkhand University, SSJ University, Barkatullah University, BBA University, Lucknow	1997-
Member, Academic Council	Evolving, approving, and implementing the faculty development programmes	National Resource Centre, MMTTC, BHU, Varanasi	2018-2021
Member (UGC-Nominee), Advisory Committee, SAP-CAS in Geological Science	Monitor, review, and assess the researches and infrastructures developed under the SAP-CAS programme of the UGC, New Delhi.	Mysore University, MLS Udaipur University, Rajasthan University, Delhi University, Aligarh Muslim University, Jadavpur University	2006-2023
Member, Board of Management (BoM) (Visitor' Nominee)	Execute the powers necessary to administer the University as per the	Babasaheb Bhimrao Ambedkar University (BBAU), Lucknow	2017-2020

	provisions made in the Act and the Statutes of university		
Member, Board of Management (BoM)	Execute the powers necessary to administer the University as per the provisions made in the Act and the Statutes of university	Gautam Buddha University, GB Nagar, Greater NOIDA	2022-
Member, BHU Court, (Visitor's Nominee)	To advise the Visitor in respect of any matter which may be referred to it for advice, and exercise the duties assigned by Visitor	Banaras Hindu University, Varanasi	2017-2020
Member, Expert Panel in Geology	To frame the CBCS based courses in UG and PG programme in Geology	University Grants Commission, Delhi	2012-2013
Member, Expert Panel, Programme Advisory Committee (PAC)	Evolving the programme, review, assess, funding, and monitoring the extra-mural research projects in Earth and Atmospheric Sciences	Young Scientist Fast Track N-PDF, DST-FIST, SERB, DST-NRDMS, Dept. of Science & Technology (DST), Govt. of India	2006-
Dean, Academic Affair	Leadership in academia including curriculum, research, creative activities, resource allocation, governance, planning and policy, and coordinating these with Deans	Kumaun University, Nainital	2023-

Specialization: Mineralogy, Petrology, Geochemistry, and Geochronology of Igneous Rocks.

Research Interests: Mainly engaged in studying the granitoids and their enclaves of Himalayan, Trans-Himalayan, and Cratonic regions of India in order to understand the magma chamber processes, dynamics, and crustal growth. Assessing the redox series of granitoids and its implication on petrogenesis, geodynamics, and mineralization potential

Number of Ph.D. guided successfully: 16

Publications (start from recent publications)

a) Research Papers (add row if required)

Authors name	Title of the paper	Journal, vol, page no/DOI	Year
Kumar, S., Ahmad, T., Pundir, S.	Petrotectonic evolution of Himalaya and Trans-Himalaya	Proceeding Indian National Science Academy, doi.org/10.1007/s43538-024-00276-z	2024
Chaurasia, C, Thakur, S S, Patel, S C, Samal, A K, Kumar, S, Gour, N	Tectonic evolution of the Higher Himalayan Crystalline Sequence, Dhauliganga valley, Garhwal Himalaya: Insights from P–T conditions of metamorphism and partial melting	Journal of Asian Earth Sciences 265 (2024) 106108	2024

Narshimha, Ch., Kumar, S.	Syntectonic shear-induced emplacement of crystallizing granite magmas evident from magmatic shear sense, mafic schlierens, and microgranular enclaves in the Mesoproterozoic A-type Kanigiri pluton, Nellore Schist Belt, Southeast India.	Journal of Geological Society of India, v. 100, pp. 1-13	2024
Nayak, R., Pal, D., Chinnasamy, S. S., Satyanarayanan, M., Kumar, S., Dash, J., Sethy, P. C., Mohan, A	Influences of subduction derived fluids and melt in the genesis of Nidar ophiolite peridotites, Ladakh Himalaya, India: Evidence from mineralogy, PGE and Nd isotopic compositions.	Geochemistry, doi.org/10.1016/j.chemer.2023.126022	2023
Narshimha, Ch., Kumar, S.	Peraluminous A-type granites formed through synchronous fractionation, magma mixing, mingling, and undercooling: Evidence from microgranular enclaves and host Mesoproterozoic Kanigiri granite pluton, Nellore Schist Belt, southeast India.	Acta Geochimica, v. 42, pp 603–636.	2023
Meyase, D., Rino, V., Kumar, S., Nagi, R.	Magnetic susceptibility, mineral chemistry, and geothermobarometry of granitoids from Lohit Plutonic Complex, Arunachal Trans-Himalaya, Northeast India: Implications on emplacement and crystallization conditions of oxidized calc alkaline magmatic arc system.	Island Arc, 32(1), e12479. doi.org/10.1111/iar.12479	2023
Gupta, S, Kumar, S.	Geochemistry, geochronology, and isotopic studies of Paleoproterozoic magmatic rocks from outer Kumaun Lesser Himalaya, India: Implication on petrogenesis and crustal evolution of Northern Indian Block	Gondwana Research, v. 113, pp 31–52	2023
Kumar, S.	Polychronous and multi-stage growth history of Ladakh Batholith, Trans-Himalaya, through mafic-felsic magma mixing and fractionation	Journal of Geological Society of India 99, doi.org/10.1007/s12594-023-2301-5	2023
Pundir, S., Adlakha, V., Kumar, S., Singhal, S., Das, S.	A newly identified Cryogenian (ca. 806 ma) basement tonalite gneiss from the Eastern Karakoram, NW India: Constraints from geochemistry and zircon U-Pb geochronology	Frontiers in Earth Science. 10:1027801. doi: 10.3389/feart.2022.1027801	2022
Chowdhary, S., Koushik, S., Rana, S., Kumar, S.,	Petrogenetic history and melt inclusion characteristics of mantle plume-derived ijolites from NE India: implications for multistage crystallization and occurrence of nano-calcioarbonatites.	Progress in Earth and Planetary Science. 9:71 doi.org/10.1186/s40645-022-00531-1	2022
Panwar, K. S., Kumar, S.,	Granite series assessment, nature and crystallization condition of Paleoproterozoic granite gneisses	Journal of Earth System Science, 131:173	2022

	from Askot and Chiplakot klippe, Kumaun Lesser Himalaya, India.	doi.org/10.1007/s12040-022-01910-4	
Kumar, S., Singh, B. N., Castro, A., Pundir, S., Panwar, K. S.,	Origin and evolution of microgranular enclaves hosted in the Cambrian granitoids of Champawat region, Kumaun Lesser Himalaya, India	Himalayan Geology, v. 43 (IB), pp. 287-302	2022
Kumar, S., Pundir, S., Rino, V., Bora, S., Pathak, M., Anettsungla, Joshi, H., Rawat, M. S., Pieru, T., & Singh, K. M.	Geochemistry of Proterozoic and Cambrian granites from Meghalaya Plateau, north-east India: Implication on petrogenesis of post-collisional, transitional from I-type to A-type felsic magmatism.	Geological Journal, 4351, 1–35.	2022
Pundir, S., Adlakha, V., Devrani, R., Kumar, S.	Tectonic control over shallow crustal exhumation across the India-Asia convergent margin	Tectonics, 40, e2021TC006722	2021
Eliwa, H. A., Deevsalar, R., Mahdy, N. M., Kumar, S., El-Gameela, Kh., Zafar, T., Khalaf, I. F., Murata, M., Ozawa, H., Andresen, Chew, D., Fawzy, M. M., Afandy, A., Katoi, Y., Fujinaga, K.,	Field, textural, geochemical, and isotopic constraints on the origin and evolution of the magmatic microgranular enclaves from the Gharib Granitoid Complex, North-Eastern Desert, Egypt	Precambrian Research, 365, 106380 doi.org/10.1016/j.precamres.2021.106380	2021
Rana, S., Sharma, R., Kumar, S.	Carbonaceous material in Larji - Rampur window, Himachal Himalaya: carbon isotope compositions and implications	Journal of Earth System Science, 130, 239.doi.org/10.1007/s12040-021-01732-w	2021
Rana, S., Sharma, R., Kumar, S.	Fluid inclusions and Raman spectroscopy of anglesite from Uchich sulphide mineralization, Himachal Himalaya, India: implication for the alteration of ores during exhumation along the thrust	Geology of Ore Deposits, v. 63, pp. 517-527	2021
Kumar, G., Kumar, S., Keewook, Yi	Three distinct Archean crustal growth events as recorded from 3.48 Ga migmatite, 2.70 Ga leucogranite, and 2.54 Ga alkali granite in the Bundelkhand Craton, Central India.	Journal of Asian Earth Science, 219, 104886, doi.org/10.1016/j.jseaes.2021.104886	2021
Gupta, S., Kumar, S.	Protracted Paleozoic-Early Triassic thermal events in the Almora nappe, Kumaun Lesser Himalaya, India: Evidence from zircon U-Pb geochronology of Almora paragneiss	Journal of Earth System Science, 135-185, 10.1007/s12040-021-01693-0	2021
Kumar, S., Pundir, S.	Tectono-magmatic evolution of granitoids in the Himalaya and Trans-Himalaya,	Himalayan Geology, v. 42, 213-246.	2021
Kumar, G., Kumar, S., Mohan, R. M	Redox series assessment, petrogenetic, and geodynamic appraisal of Neoproterozoic granites from the Bundelkhand Craton, Central India: Constraints from phase petrology and bulk rock geochemistry	Geological Journal, v. 56, 3035-3063.	2021

Arya, D., Gupta, S., Kumar, S., Xu, X.	Geochemistry and U-Pb-Lu-Hf zircon isotopes of Cu (\pm Au \pm Mo) hosted granitoids of Malanjhand pluton, Central India: Implication on petrogenesis, source and crustal evolution.	Lithos, v. 402-403, 106153, doi.org/10.1016/j.lithos.2021.106153	2021
Singh, A. K., Khogenkumar, S., Kumar, S., Singh, L. R., Thakur, S. S.	Insights into the petrogenesis of depleted mantle dunite from the central part of the Nagaland–Manipur Ophiolites, North East India	Current Science, v. 120, 1-8.	2021
Choudhary, S., Sen, K., Kumar, S.	Pyroxenite hosted chalcopyrites from Sung valley, Meghalaya, NE India: Implications for formation of both high- and low-temperature sulphides in plume derived magma.	Geological Society of London, Special Publications, v. 518, doi.org/10.1144/SP518-2020-183	2021
Mazhari, S. A., Jalil, G., Kumar, S., Shellnutt, J-G, Bea, F.	Tectonomagmatic development of the Eocene Pasevh pluton (NW Iran): Implications for the Arabia-Eurasia collision,	Journal of Asian Earth Science, 203, 104551 doi.org/10.1016/j.jseaes.2020.104551	2020
Khogenkumar, S., Singh, A. K., Kumar, S., Lakhan, N., Chaubey, M. Imtisunep, S.	Subduction versus non-subduction origin of the Nagaland-Manipur Ophiolites along the Indo-Myanmar Orogenic Belt, northeast India: Fact and fallacy	Geological Journal, doi.org/10.1002/gj.4030	2020
Choudhary, S., Koushik, S., Kumar, S., Rana, S., Ghosh, S.	Forsterite reprecipitation and carbon dioxide entrapment in the lithospheric mantle during its interaction with carbonatitic melt: A case study from the Sung Valley Ultramafic-Alkaline-Carbonatite Complex, Meghalaya, NE India	Geological Magazine, v. 158, pp. 475-486 doi.org/10.1017/S0016756820000631	2020
Pundir, S., Adalakha, V., Kumar, S., Singhal, S., Koushik, S.	Petrology, geochemistry and geochronology of granites and granite gneisses in the SE Karakoram, India: Record of subduction-related and pre-to-syn-kinematic magmatism	Mineralogy and Petrology, v. 114, pp. 413–434	2020
Singh, S., Kumar, S., Gupta, P., Singhal, S., Anamika	The Himalayan magmatic events	Proceeding Indian National Science Academy, v. 86, 213-216.	2020
Pundir, S., Adalakha, V., Kumar, S., Singhal, S	Closure of India-Asia collision margin along the Shyok Suture Zone in the eastern Karakoram: New geochemical and zircon U–Pb geochronological observations	Geological Magazine, v. 157, pp 1451- 1472 doi.org/10.1017/S0016756819001547	2020
Kumar, S.	Schedule of mafic to hybrid magma injections into crystallizing felsic magma chambers and resultant geometry of enclaves in granites: New field and petrographic observations from Ladakh Batholith, Trans-Himalaya, India	Frontiers in Earth Sciences, v 8, doi.org/10.3389/feart.2020.551097	2020

Kumar, S., Gupta, S., Sensarma, S., Bhutani, R.	Proterozoic felsic and mafic magmatism in India: Implications to crustal evolution through crust-mantle interactions	Episode, v. 43, 203-230	2020
Sharma, R, Villa, I.M., Kumar, S.	Crustal architecture and evolution of the Himalaya-Karakoram-Tibet orogen: An introduction.	Geological Society, London, Special Publications, 481, doi.org/10.1144/SP481-2019-46	2019
Arya, D. Gupta, S., Kumar, S., Broska, I., Vaculovič, T.	Morphology and chemistry of zircons from the Paleoproterozoic Cu(\pm Mo \pm Au) hosting granitoids of Malanjkhanda mine area, central India	Journal Geological Society of India, v. 93, 257–262	2019
Broska, I., Bačík, B., Kumar, S., Janák, M., Kurylo, S., Filip, J., Bazarnik, J., Mikuš, T.	Myrmekitic intergrowth of tourmaline and quartz in eclogite-hosting gneisses of the Tso Moriri UHP metamorphic terrane (Eastern Ladakh, India): a possible record of high-pressure conditions	Geological Society, London, Special Publications, 481, 175-194, https://doi.org/10.1144/SP481-2017-167	2019
Pathak, M., Kumar, S.,	Petrology, geochemistry, and zircon U-Pb-Lu-Hf isotopes of Paleoproterozoic granite gneiss from Bomdila in the western Arunachal Himalaya, Northeast India.	Geological Society, London, Special Publications, 481, 341-377 doi.org/10.1144/SP481-2017-169	2019
Arya, D., Kumar, G., Gupta, S., Kumar, S., Panwar, K. S., Deepti, Sindhupe, G. L., Khan, R. M	Geochemistry and Petrogenesis of Mafic Dykes in Paleoproterozoic Cu(\pm Mo \pm Au) Hosting Granitoids at Malanjkhanda Mine Area, Central India.	Journal of Geoscience Research, v. 3, 1-11,	2018
Anettsungla, Rino, V., Kumar, S.	Redox Condition, Nature, and Tectono-magmatic Environment of Granitoids and Granite gneisses from the Karbi Anglong Hills, Northeast India: Constraints from Magnetic Susceptibility and Biotite Geochemistry.	Journal of Geological Society of India, v. 91, 601-612	2018
Kumar, S., Pieru, T., Rino, V. & Hayasaka, Y	Geochemistry and U–Pb SHRIMP zircon geochronology of microgranular enclaves and host granitoids from South Khasi Hills of the Meghalaya Plateau, NE India: evidence of synchronous mafic–felsic magma mixing–fractionation and diffusion in a post-collision tectonic environment during the Pan-African orogenic cycle	Geological Society, London, Special Publications, 457	2017
Chauhan, D.S., Sharma, R., Kumar, S.	Hydrogeochemistry, stable isotope study and implication for the origin of geothermal springs in northeast Kumaun Himalaya, India.	Himalayan Geology, v. 38, 129-140	2017
Kumar, S., Rino, V., Hayasaka, Y., Kimura, K.,	Contribution of Columbia and Gondwana Supercontinent assembly- and growth-related magmatism in the	Lithos, v. 277, 356-375,	2017

Raju, S., Terada, K., Pathak, M.	evolution of the Meghalaya Plateau and the Mikir Hills, Northeast India: Constraints from U-Pb SHRIMP zircon geochronology and geochemistry	doi.org/10.1016/j.lithos.2016.10.020	
Kumar, S., Bora, S., Sharma, U. K., Yi, K., Kim, N.	Early Cretaceous subvolcanic calc-alkaline granitoid magmatism in the Nubra-Shyok valley of the Shyok Suture Zone, Ladakh Himalaya, India: Evidence from geochemistry and U-Pb SHRIMP zircon geochronology	Lithos, v. 277, 33-50, doi.org/10.1016/j.lithos.2016.11.019	2017
Singh, B., Kumar, S., Ban, M., Nakashima, K.	Mineralogy and geochemistry of granitoids from Kinnaur region, Himachal Higher Himalaya, India: Implication on the nature of felsic magmatism in the collision tectonics	Journal of Earth System Science, v. 125, 1329–1352	2016
Journal of Earth System Science, v. 125, 1329–1352	Geological appraisal of Ladakh and Tirit granitoids in the Indus-Shyok Suture Zones of Northwest Himalaya, India.	Journal Geological Society of India, v. 87, pp. 1-9	2016
Bora, S., Kumar, S.	Geochemistry of biotites and host granitoid plutons from the Proterozoic Mahakoshal Belt, central India tectonic zone: implication for nature and tectonic setting of magmatism	International Geology Review, v. 57, pp. 1686-1706	2015
Bora, S., Kumar S., Yi, Keewook, Namhoon, Kim, Lee, T. H.	Geochemistry and U-Pb SHRIMP Zircon chronology of granitoids and microgranular enclaves from Jhiringadandi pluton of Mahakoshal belt, Central India Tectonic Zone, India.	Journal Asian Earth Sciences, v. 70–71, 99–114	2013
Kumar, S.	Magnetite and ilmenite series of granitoids of Ladakh batholith, Northwest Indian Himalaya: implications on redox conditions of calc-alkaline felsic magma chambers	Current Science, v. 99, No. 9, pp. 1260-1264	2010
Kumar, S., Pieru, T.	Petrography and major elements geochemistry of microgranular enclaves and Neoproterozoic granitoids of south Khasi, Meghalaya: evidence of magma mixing and alkali diffusion during mingling of hybrid globules	Journal of Geological Society of India. v. 76, pp. 345-360	2010
Singh, N. S., Kumar, S.	Mineralogy and petrology of mafic dykes in Precambrian Almora crystallines of Kumaun Lesser Himalaya	Journal of Geological Society of India. v. 76, pp. 437-452.	2010
Kumar, S.	Mafic to hybrid microgranular enclaves in the granitoids of Ladakh batholith, Northwest Higher	Journal of Geological Society of India. v. 76, pp. 5-25	2010

	Himalaya: implications on calc-alkaline magma chamber processes.		
Kumar, S., Pathak, M.	Mineralogy and geochemistry of biotites from Proterozoic granitoids of Western Arunachal Himalaya: Evidence of bimodal granitogeny and tectonic affinity.	Journal of Geological Society of India. v. 75, pp. 715-730.	2010
Kumar, S., Raju, S., Pathak, M. and Pandey, A	Magnetic susceptibility mapping of felsic magmatic lithounits in the central part of Bundelkhand massif, central India	Journal of Geological Society of India. v. 75, pp. 539-548	2010
Kumar, S.	Magnetic susceptibility mapping of Ladakh granitoids, northwest Higher Himalaya: Implication to redox series of felsic magmatism in the subduction environments	Memoir Geological Society of India, No.72, pp. 83-102. Peer Reviewed	2008
Kumar, S., Singh, Kh. M.	Granite series evaluation of Early Ordovician Kyrdem granitoids and enclaves, Meghalaya plateau, northeast India: implication on oxidation condition of interacting mafic-felsic magma system	Journal Earth Science India, v.1, pp. 204-219	2008
Kumar, S., Rino V.	Redox series evaluation of Cu(\pm Mo \pm Au) hosting Palaeoproterozoic Malanjhand granitoids and enclaves, central India: evidence from magnetic susceptibility, phase petrology and geochemistry.	Journal of Economic Geology and Resource Management, v 4, pp 105-127	2007
Pandey A., Kumar, S.	Geochemistry of metavolcanics of Berinag region, Kumaun Lesser Himalaya: A clue to Precambrian mafic magmatism in northwestern Himalaya	Indian Journal of Geochemistry, v. 21, pp 185-198	2006
Kumar, S., Singh B., Joshi C.C., Pandey A.	Magnetic susceptibility and biotite composition of granitoids of Amritpur region, Kumaun Lesser Himalaya: Implications on granite series evaluation and nature of felsic magma	Journal Geological Society of India. v 68, pp 666-674	2006
Kumar, S., Rino, V.	Mineralogy and geochemistry of microgranular enclaves in Palaeoproterozoic Malanjhand Granitoids, central India: evidence of magma mixing, mingling, and chemical equilibration	Contribution to Mineralogy Petrology, v 152, pp 591-609.	2006
Kumar. S., Pieru, T, Rino V.	Evaluation of granitoid-series of and magmatic oxidation of Neoproterozoic south Khasi granitoids and their microgranular enclaves, Meghalaya: Constrains from magnetic susceptibility and biotite composition	Journal of Applied Geochemistry, 7, pp 175-194	2005

Kumar, S., Pieru, T., Rino V, Lyngdoh, B. C.	Microgranular enclaves in Neoproterozoic south Khasi granitoids of Meghalaya: field evidences of coeval mafic and felsic magma interaction.	Journal Geological Society of India. 65, pp. 629-633	2005
Singh Brajesh, Kumar, S.	Petrogenetic appraisal of Early Palaeozoic granitoids of Kinnaur district, Higher Himachal Himalaya, India	Gondwana Research, 8, pp 67-76	2005
Kumar, S., Vikoleno Rino, A. B. Pal	Typology and geochemistry of microgranular enclaves hosted in Malanjkhand granitoids, central India,	Journal Geological Society of India, v. 64, pp 277-292.	2004
Kumar, S.	Variation in the thickness of the lithosphere underneath the Deccan volcanic province: Evidence from rare earth elements	Memoir Geological Society of India, No. 52, pp 179-194	2003
Kumar, S.	Pearce elements ratios applied to model the basic members of the Phenai Mata igneous complex, western India	Journal Geological Society of India, v. 61, pp. 565-572	2003
Kumar, S.	Calculated magma differentiation trends of discrete tholeiitic and alkaline magma series of Phenai Mata igneous complex, Baroda district, Gujarat	Journal of Applied Geochemistry, v. 4, pp. 93-102	2002
Kumar, S.	Geochemical specialization of Phenai Mata Igneous Complex, Baroda District., Gujarat.	Journal of Scientific Research, v. 46, pp 207-218.	1996
Shastri A., Kumar, S.	Rare Earth elements geochemistry of alkaline rocks of Sarnu-Dandali igneous complex, Barmer, Rajasthan	Journal Geological Society of India, v. 48, pp 663-670	1996
Singh S., Shankar, B., Kumar, S.	Geochemistry of rocks associated with Tin-Tungsten mineralization in the Jalali area, Kumaun Lesser Himalaya	Geological Survey of India, Special Publication, v. 21(1), pp 463-467.	1996
Kumar, S., Singh, B. N., Joshi, M.	Geochemical and tectonomagmatic environment of Cambro-Ordovician granitoids of Lesser Himalaya: A reappraisal	Geological Survey of India, Special Publication, v. 21(1), pp 205-214.	1996
Kumar, S.	Chemistry of clinopyroxene from subalkaline and alkaline rocks of Phenai Mata igneous complex, Baroda District., Gujarat, western India	Journal Geological Society of India, v. 48, pp 547- 558	1996
Singh, B. N., Joshi M., Kumar, S.	Comment on " Petrochemistry and tectonic setting of the Champawat granitoid suit of Lesser Himalaya, Pithoragarh District, Uttar Pradesh	Journal Geological Society of India, 45, pp 360-361	1995
Shastri, A., Kumar, S.	Petrogenesis of carbonatite veins and associated melanephelinite from Sarnu-Dandali igneous complex, Barmer, Rajasthan,	National Academy of Science India, v. 18, pp 139-143.	1995

Kumar, S., Kmet' Jozef	A calculated magma differentiation trend of Hodruša štíavnica Intrusive Complex, western Carpathians	Bulletin Czech Geological Survey, 70, pp 15-18.	1995
Kumar, S.	Microstructural evidence of magma quenching inferred from microgranular enclave hosted in Hodruša granodiorite. western Carpathians	Geologica Carpathica, v. 46, pp 379-382.	1995
Kumar, S.	Geochemistry and petrogenesis of the Champawat granitoids occurring around Dhunaghat, District Pithoragarh, Uttar Pradesh, India	Journal Geological Society of India, 32, 2, pp 55-57	1994
Kumar, S., Karkare S. G.	Studies of the Kaladongar Series of Kutch, Gujarat State, India, with special reference to the differentiation trend leading to alkaline rocks	Acta. Geol. Comen., v. 49, pp 45-54.	1993
Kumar, S. Karkare, S. G., Tuchshmid, M.	Petrology and geochemistry of basalts of Phenai Mata Hill, District of Baroda, Gujarat, western India	Acta. Geol. Carol., v. 34, pp 313-329.	1992

b) Patents (start from recent publications) (add row if required) Not yet

c) Books (start from recent publications) (add row if required)

Authors name	Title of the book	Publisher	ISBN	Year
Talat Ahmad, Santosh Kumar, M. Jayananda, R. Jayangondaperumal, H. K. Sachan, Anil Kumar	Himalayan Geology, Special Publication No. 5	Wadia Institute of Himalayan Geology, Dehradun	ISSN: 0971-8966	2022
Santosh Kumar, Rajneesh Bhutani, Bhriugu Shankar, Brajesh Singh	Trans-Himalayan Ladakh Batholith: a key to Magma Chamber Processes and Dynamics. Field Trip Excursion Guide Book,	NR-09-Field Excursion: Geological Survey of India	Geological Survey of India, New Delhi	2020
R. Sharma, I. M. Villa, Santosh Kumar	Crustal Architecture and Evolution of Himalayan-Karakoram-Tibet Orogen	Geological Society, London, Special Publications, 481	978-1-78620-403-5	2019
Santosh Kumar and R. N. Singh	Modelling of Magmatic and Allied Processes	Springer	978-3-319-06471-0	2014
Santosh Kumar	Magmatism, Tectonism and Mineralization	McMillan Publisher India Limited	10:0230-63861-9	2009

d) Book chapters (start from recent publications) (add row if required)

Authors name	Title of the book	Publisher	ISBN	Year
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Kumar, S., Pandey, A.	An impact assessment of Covid-19 on the higher education institutions of India. In Sobti R. C. et al., (Eds.) Learning from the Covid-19 pandemic: Implications on education, environment, and life style	CRC Press, Routledge, Taylor and Francis Group, London.	978-1032416052	2022
Pandey, A., Kumar, S.	Elemental mobility in the near-surface environment: A study from Bhowali-Bhimtal and Berinag regions of Kumaun Lesser Himalaya, India. In: Sobti, R. C. et al., (Eds.) Environmental Studies and Climate Change	Newgen Publishing UK, DOI: 10.1201.9781003220824-6.	978-1003220824	2022
Kumar, S.	Documentation and requirements for accreditation and ranking of Higher Education Institutions. In: Arora, V. P. S., Pathak, D., Goswami, V. K., Agarwal, S. S., Marwah, S., (Editors): Higher Education: Leadership and Management.	Centre for Education Growth and Research (CEGR), Bharti Publication, New Delhi, pp 262-274.	9789385000522	2016
Bora, S., Kumar, S., Sharma, U. K.	Some New Observations and Interpretations on the Lithounits of Indus-Shyok Suture Zones of Ladakh Himalaya. In: Singh, R. A. (Ed.) Geology, Biodiversity & Natural Resources of Himalaya and their Intellectual Property Law	Pratyush Publications, Delhi, pp. 197-208.	978-93-82171-40-9	2014
Singh, R.A., Singh, N. S., Kumar, S.	Stress analysis of mafic dykes and associated lithounits around Pithoragarh, Kumaun Lesser Himalaya. In: Singh, R. A. (Ed.) Geology, Biodiversity & Natural Resources of Himalaya and their	Pratyush Publications, Delhi, pp. 112-127.	978-93-82171-40-9	2014

	Intellectual Property Law			
Kumar, S.	Magmatic Processes: Review of Some Concepts and Models	Springer	978-3-319-06471-0	2014
Singh, B., Kumar, S.	Tungsten mineralization associated with felsic magmatisms in Purabani region of Kinnaur district, Himachal Higher Himalaya	Scientific Publications (India), Jodhpur, pp. 139-148.	9788172335724	2009
Kumar, S., Mohan, Kh. M.	Granite series evaluation of early Ordovician of Kyrdem granitoids and enclaves, Meghalaya plateau, NE India: implication on oxidation condition of interacting mafic-felsic magma system	Satish Serial Publishing House, Delhi, pp 17-31	81-89304-66-6	2009
Kumar, S., Pathak M.,	Magnetic susceptibility and geochemistry of Felsic Igneous rocks from western Arunachal Himalaya: Implication on granite series evaluation in orogenic belt. Magmatism, Tectonism and Mineralization	Macmillan Publishers India Limited, pp 74-91.	10:0230-63861-9	2009
Singh, B. N., Kumar, S.	Geochemical evolution of microgranular enclaves in Neoproterozoic A-type Abu granites, southwest Rajasthan. In Magmatism, Tectonism and Mineralization,	Macmillan Publishers India Limited, pp 14-28.	10:0230-63861-9	2009
Kumar, S., Singh B. Pandey A. and Singh V. K.	Mineralogy and Geochemistry of Mafic dykes at Nainital, Kumaun Lesser Himalaya.	Narosa Publishing House Pvt. Ltd., New Delhi 1-16	978-81-7319-877-9	2008
Pandey, A., Kumar, S.	Clinopyroxene compositions from Bhimtal volcanics of Kumaun Lesser Himalaya, India: Implication on mineral evolution and host magma type	Satish Serial Publishing House, Delhi, pp 1-19	81-89304-37-2	2007
Kumar, S., Singh, B. N.	Microgranular enclaves hosted in Champawat	Satish Serial Publishing House, Delhi, pp 79-90	81-89304-14-3	2007

	granitoids. Kumaun Lesser Himalaya			
Singh, B., Kumar, S.	Biotite composition from granitoids of Kinnaur district, Himachal Higher Himalaya	Satish Serial Publishing House, Delhi, pp 79-100	81-89304-37-2	2005

e) Conference Publications/Proceedings (start from recent publications) (add row if required)

Authors name	Title of the paper	Conference name	Year
Kumar, S. Moyen J-F	Advanced Training Programme on Granites and Related Rocks and Field Workshop in Kumaun Lesser Himalaya	Advanced training programme on granites and related rocks, Jour. Geol. Soc. India (2022) 98:1768-1770	2022
Kumar, S., Sharma, A K (Eds.)	Magmatism, Tectonism, Mineralization	International Conference on Magmatism, Tectonism, and Mineralization 2014	2014
Kumar, S., Pant, P D. (Eds)	Magmatism, Tectonism, Mineralization	International Conference on Magmatism, Tectonism, and Mineralization 2007	2007
Kumar, S.	Lecture series: Magma mingling and mixing	Training Programme on Modelling of Magmatic and Allied Processes	2007
Kumar, S.	A viable petrogenetic model of Phenai Mata Igneous Complex, Baroda District, Gujarat, western India	Proc. Rec. Res. Geol. western India, M S University of Baroda, Baroda, pp 31-42.	1995

Research Projects (add row if required)

Title of the project	Funding agency	Amount (Rs)	Year
Occurrence of enclaves in pre-Himalayan Chaur and Champawat granitoids of Lesser Himalaya: Implications on geodynamics and granite petrogenesis	SERC-SYS, Department of Science and Technology (DST)	3.5 Lakhs	1992
Petrology and Geochemistry of Early Proterozoic Dongargarh granites and their enclaves, Rajnandgaon district, central India	SERC-SYS, DST, Govt of India	3.5 Lakhs	1996
Petrogenesis of enclaves hosted in Late Proterozoic to Early Ordovician granitoids of East Khasi Hills, Meghalaya	SERC-DST, Govt. of India	7.73 Lakhs	1999
Geochemistry of selected weathered crust and soil profiles, Kumaun Lesser Himalaya: Implications on elemental mobility near surface environment	UGC, New Delhi	4.73 Lakhs	2003

Granite series evaluation along Kameng corridor of Arunachal Himalaya in term of magnetic susceptibility, ferromagnesian minerals, whole-rock geochemistry and stable isotopes: Implication for petrogenesis and tectonic environment	SERC-DCS-DST, New Delhi	12.05 Lakhs	2007
Mineralogy and geochemistry of mafic dyke rocks along Nainital-Bhatronjkhan-Pithoragarh geotransects in Kumaun Lesser Himalaya	SERC-DCS-DST, New Delhi	13.23 Lakhs	2008
Elemental and isotope geochemistry of mafic rocks from Central Indian Tectonic Zone (CITZ)	SERC-ESS-DST, New Delhi	12.33 Lakhs	2010
Redox conditions of felsic magmatism of Bundelkhand Massif, Central India: Implication on petrogenesis, mineralization and geodynamics	UGC, New Delhi	12.42 Lakhs	2011
Redox condition of granitoids of Meghalaya Plateau and Mikir Hills: Implication on petrogenesis and geodynamics	SERB-ESS-DST, New Delhi	21.71	2014
Mineralogy, geochemistry, and geochronology of microgranular enclaves and host Ladakh granitoids, Trans-Himalaya, India: Implication on subduction-related magma chamber processes, sources, and timing of plutonism and crustal growth	SERB-DST, New Delhi	40 Lakh	2018
Tracing the Precambrian magmatic components in the geodynamic evolution of Kumaun Himalaya and their geological correlations: Constraints from phase petrology, geochemistry, U-Pb SHRIMP zircon geochronology and Lu-Hf-O isotopes of granites and their enclaves	Ministry of Earth Sciences (MoES). New Delhi	85 Lakh	2018
Insight into the enclave and granite petrogenesis from textural, chemical, and isotopic investigation of K-feldspar megacrysts in the Cambrian plutons of Meghalaya Plateau, NE India	SERB-DST, New Delhi	59 Lakh	2024

Teaching details (add row if required)

Name of the course/paper	Department	University	Year
MSc Igneous Petrology	Department of Geology	Kumaun University	1999-
MSc Geochemistry	Department of Geology	Kumaun University	1999-
BSc Petrology	Department of Geology	Kumaun University	2017-
BSc Geology (Minor)	Department of Geology	Kumaun University	2022-
PhD Research Methodology	Faculty of Science	Kumaun University	2010-

MSc Igneous Petrology	PG Department of Geology	Nagaland University	1997
MSc Geochemistry	PG Department of Geology	Nagaland University	1997
MSc Metamorphic Petrology	PG Department of Geology	Nagaland University	1997
DSc Petrology (English)	Department of Earth and Environmental Science	Yamagata University, Japan	2017

Professional Memberships (add row if required)

Organization	Position	Year
Geological Society of India, Bangalore	Fellow	1996
International Association of Gondwana Research	Fellow	1997
Indian Society of Applied Geochemists, Hyderabad	Member	2002
Mineralogical Society of India, Mysore	Member	2002
Earth Science Society, Lucknow	Member	2006
Centre for Education Growth and Research, New Delhi	Member	2015

Honours and Awards (add row if required)

Award	Awarding Organization	Year
M R Srinivasa Award 2023	Geological Society of India	2023
National Geoscience Award 2019	Government of India	Conferred in 2022
KS Valdiya Research Award	Kumaun University	2023
KS Valdiya Research Award	Kumaun University	2022
INSA-SAV Senior Visiting Scientist Fellowship	Indian National Science Academy, New Delhi	2017
INSA-JSPS Senior Visiting Scientist Fellowship	Indian National Science Academy, New Delhi	2012
JGSI-BP Radhakrishna Best Paper Award 2011	Geological Society of India, Bangalore	2011
INSA-JSPS Senior Visiting Scientist Fellowship	Indian National Science Academy, New Delhi	2002

Conference Presentations (add row if required)

Title of presentation	Conference name	Name of the institution	Year
Enclaves in granitoids: A key to understanding the magmatic processes and dynamics in the evolution of granitoid plutons	GEOHIM-2023	Central University of Himachal Pradesh, Dharamshala	2023
Origin of Fe-Ti oxides in the granites from the Muglib and Panging of the Shyok Suture Zone of Trans-Himalaya, India: Insight from textural and in-situ chemistry of manganoan-ilmenite and re-equilibrated biotite	GEOHIM-2023	Central University of Himachal Pradesh, Dharamshala	2023

Syntectonic shear-induced emplacement of crystallizing granitic magmas evident from magmatic shear sense, mafic schlierens, and microgranular enclaves in the Mesoproterozoic A-type Kanigiri pluton, Nellore Schist Belt, Southeast India.	GEOHIM-2023	Central University of Himachal Pradesh, Dharamshala	2023
Geochronology and petrogenesis of granite gneisses from Askot-Chiplakot klippe, Kumaun Lesser Himalaya, India	GEOHIM-2023	Central University of Himachal Pradesh, Dharamshala	2023
Field and microstructural features of mafic-felsic magma mixing mingling in the evolution of granitoid plutons: evidence from microgranular enclaves and synplutonic dykes	National Seminar on Recent Trends in Geosciences and its Applications.	Acharya Nagarjuna University, Guntur, Andhra Pradesh	2023
Contrasting crust-derived A-type granites and associated enclaves from the Nellore Schist Belt, Southeast India: Evidence from phase petrology and whole rock geochemistry	X-Hutton Symposium on Granites and Related Rocks, 10-15 September 2023, Baveno, Italy	ETH Zurich, Universite Clermont Auvergne, ClerVolc	2023
Miocene leucogranite dyke and pluton sourced from Late Cretaceous calc-alkaline granites in the Pangong Metamorphic Complex, Ladakh Trans-Himalaya: Evidence from geochemistry and zircon U-Pb-Lu-Hf isotopes	X-Hutton Symposium on Granites and Related Rocks, 10-15 September 2023, Baveno, Italy	ETH Zurich, Universite Clermont Auvergne, ClerVolc	2023
Mafic to hybrid synplutonic dyke magma injection into subvolcanic granitoid magma chamber of Ladakh batholith, Trans-Himalaya, India: constraints from petrology, geochemistry, and zircon U-Pb-Hf isotopes.	X-Hutton Symposium on Granites and Related Rocks, 10-15 September 2023, Baveno, Italy	ETH Zurich, Universite Clermont Auvergne, ClerVolc	2023
Polychronous and Multi-stage Growth History of Ladakh Batholith, Trans-Himalaya, through Mafic-Felsic Magma Mixing and Fractionation	Monthly Lecture (January 2023)	Geological Society of India	2023
Zircon typology and geochronology of magmatic and associated volcano-sedimentary lithounits from the Kumaun Lesser Himalaya: Constraints on basin	38th Convention of Indian Association of Sedimentologists (IAS-2022),	Delhi University, Delhi	2022

depositional age and nature of provenance			
Evolution of Ladakh Batholith, Trans-Himalaya, India. (Invited talk)	6th National Geo-Research Scholars Meet (NGRSM):	University of Ladakh, Leh Campus.	2022
Geochemistry and geochronology of granites from Nongpoh pluton, Meghalaya plateau, Northeast India: Implication on petrogenesis and multi-stage history of pluton assembly.	International Conference on Advances in Science of the Earth: Relevance to the Society	School of Earth Sciences, Swami Ramanand Teerth Marathwada University, Nanded, India.	2022
Field, textural, and mineral-chemical constraints on crystallization condition and evolution of microgranular enclaves and host Mesoproterozoic Kanigiri granite pluton, Nellore Schist Belt, SE India	International Conference on Advances in Science of the Earth: Relevance to the Society	School of Earth Sciences, Swami Ramanand Teerth Marathwada University, Nanded, India.	2022
Contribution of enclave magma in the evolution of Ladakh Batholith, Trans-Himalaya.	5th National Geo-Research Scholars Meet (NGRSM)	Wadia Institute of Himalayan Geology, Dehradun	2021
Origin and evolution of Ladakh Batholith, Trans-Himalaya, India: Insight into the magma chamber processes and dynamics.	International Conference on Advances in Science of the Earth: Relevance to the Society	School of Earth Sciences, Swami Ramanand Teerth Marathwada University, Nanded, India.	2022
An impact assessment of COVID-19 pandemic on higher education (invited talk). Webinar on COVID-19:	Transformation of Life Systems	Chandigarh & Chandigarh Forum for Science & Technology	2020
Research Methodology: Understanding the Science and Craft of Research:	Earth Sciences (Invited Talk)	University of Lucknow, UP	2020
Enclave in granitoids: implications on understanding the magma chamber processes and dynamics	National Seminar on Petrology	RTM Nagpur University	2019
Geochemistry, zircon U-Pb chronology and Lu-Hf isotopes of granitoids from Malanjhand pluton, Central India: Implication on petrogenesis, mineralization and crustal growth	IX-Hutton Symposium on Granites and Related Rocks	Nanjing University, Nanjing, China,	2019
Morphology, U-Pb geochronology and Lu-Hf isotopes of zircons from granite gneisses of Askot-Chiplakot klippe, Kumaun Lesser Himalaya, India: Implication on	IX-Hutton Symposium on Granites and Related Rocks	Nanjing University, Nanjing, China,	2019

Paleoproterozoic crustal evolution.			
LIP related Paleoproterozoic crustal evolution of northern Indian block: Evidence from geochemistry, zircon U-Pb-Lu-Hf isotopes of felsic-mafic magmatic rocks and associated quartzite from Kumaun Lesser Himalaya, India	IX-Hutton Symposium on Granites and Related Rocks	Nanjing University, Nanjing, China,	2019
Petrology, geochemistry and Sr-Nd isotopes of microgranular enclaves and host Paleoproterozoic granitoids from Dongargarh, Bastar Craton, Central India: Evidence of synchronous mixing-fractionation of coeval mafic-felsic magmas	IX-Hutton Symposium on Granites and Related Rocks	Nanjing University, Nanjing, China,	2019
Style and schedule of mafic to hybrid magma injections into crystallizing felsic magma chamber and resultant geometry of enclaves in Ladakh Batholith, Trans-Himalaya, India, IX-Hutton Symposium on Granites and Related Rocks	IX-Hutton Symposium on Granites and Related Rocks	Nanjing University, Nanjing, China,	2019
Contribution of mantle-derived mafic (enclave) magma in the evolution of granitoids formed in diverse tectonic environments	National Conference on Mantle Petrology	BHU, Varanasi	2018
Crustal evolution of Bundelkhand Craton (Central India) through time: Constraints from elemental geochemistry and U-Pb SHRIMP zircon chronology of volcano-plutonic magmatic rocks	9th SHRIMP workshop	Korea Basic Science Institute & Gyeongju National Museum, South Korea	2018
Contribution of felsic and mafic magmas in the crustal evolution of Meghalaya plateau, northeast India: evidences from U-Pb zircon SHRIMP chronology and geochemistry	National seminar and workshop on crust, ancient life, and mineral resources:	Department of Geology, Presidency University, Kolkata	2017
Enclaves in granites: interactions of liquid and semi-solids mafic-felsic magma interaction,	National seminar on application of scanning electron microscope (SEM) in geosciences (Geocon 2017)	Kolkata University, Kolkata	2017
U-Pb-Lu-Hf zircon chronology of Ladakh granitoids and its enclaves	Conference on Accessory Minerals (CAM) 2017	Vienna, Austria	2017

Geodynamic evolution of Meghalaya and Mikir Hills	International conference on Precambrians of India	Bundelkhand University Jhansi	2016
Geochemistry, zircon U-Pb geochronology and Lu-Hf Isotope of granitoids and microgranular enclaves from Ladakh batholith, Indian Himalaya: Evidence of synchronous mixing fractionation and chemical re-equilibration,	35th International Geological Congress	Cape Town, South Africa	2016
Phase petrology, geochemistry and UPb SHRIMP zircon chronology of Myllem granitoids and microgranular enclaves from Meghalaya plateau, Northeast India: Evidence of synchronous crystallization, magma mixing and mingling during Pan African thermal orogeny	35th International Geological Congress	Cape Town, South Africa	2016
U-Pb geochronology and Lu-Hf isotopes of zircons from granitoids exposed along Kameng-Sela-Tawang corridor of western Arunachal Himalaya, Northeast India	30 th Himalaya-Karakoram-Tibet (HKT) workshop	Wadia Institute of Himalayan Geology (WIHG), Dehradun, India	2015
Contribution of Columbian and Gondwanian assembly-related magmatism and magma mixing-mingling in the evolution of Meghalaya Plateau, Northeast India: Evidences from field relation, geochemistry and U-Pb SHRIMP zircon geochronology.	VIII-Hutton Symposium on Granites and Related Rocks	Florianopolis, Brazil,	2015
Early Cretaceous subvolcanic calc-alkaline granitoid magmatism in Shyok Suture Zone, Ladakh Himalaya, India: Evidence from phase petrology and U-Pb SHRIMP zircon geochronology	VIII-Hutton Symposium on Granites and Related Rocks	Florianopolis, Brazil,	2015
Petrology and U-Pb SHRIMP zircon chronology of granitoids from Shyok Suture Zone, Ladakh Himalaya, India: Evidence of Early Cretaceous subvolcanic calc-alkaline granitoid magmatism	29-HKT Workshop	OCIETÀ GEOLOGICA ITALIANA ETS Piazzale Aldo Moro 5, 00185 Roma	2014
Petrology and U-Pb SHRIMP zircon chronology of migmatite	29-HKT Workshop	OCIETÀ GEOLOGICA ITALIANA ETS	2014

from Tangtse Shear Zone, eastern Ladakh Himalaya, India: Evidences of melting of granitoid protoliths and formation of leucogranite-granulite.			
Syn- to post-collisional volcano-plutonic felsic to mafic magmatism in Mahakoshal belt, Central India Tectonic Zone: evidence from U-Pb SHRIMP Zircon chronology and geochemistry	International Seminar on Magmatism, Tectonism and Mineralization (MTM-2014)	Kumaun University, Nainital	2014
Geochemistry of biotites from granitoid plutons of Mahakoshal belt, Central India Tectonic Zone: implication on nature and tectonic setting of host magmas	International Seminar on Magmatism, Tectonism and Mineralization (MTM-2014)	Kumaun University, Nainital	2014
Columbian and Gondwanian Supercontinent affinity in the crustal growth of Meghalaya plateau, Northeast India: Evidence from U-Pb SHRIMP zircon chronology	III International Seminar on Precambrian Continental Growth and Tectonism	Bundelkhand University, Jhansi	2013
Crustal evolution of Bundelkhand craton: Constrains from whole rock geochemistry and U-Pb SHRIMP zircon chronology.	III International Seminar on Precambrian Continental Growth and Tectonism	Bundelkhand University, Jhansi	2013
Enclaves in Tirith Granites, Nubra Valley, Northern Ladakh: Evidences of Subvolcanic Emplacement and Partial Assimilation	27th Himalayan-Karakoram-Tibet Workshop	Kathmandu, Nepal	2012
Geological Appraisal in the Indus and Shyok Suture Zone of Ladakh Himalaya.	National seminar on Geology, Biodiversity & National Resources of Himalaya and their intellectual property Law	LMS Palni Govt. College, Pithoragarh	2012
Anatexis and Network Style of Melt Transport from Source to Sink: Evidence from Pangong Metamorphic Complex, NW Indian Himalaya.	National seminar on Geology and Geo-resources of Himalaya and Cratonic regions of India	Kumaun University, Nainital	2012
Geochemistry and U-Pb SHRIMP Zircon Chronology of Granitoids and Microgranular Enclaves from Jhirdand Pluton Central India Tectonic Zone, India.	National seminar on recent advances and future challenges in Geochemistry & Geophysics	Banaras Hindu University, Varanasi	2012
Anatexis and Network Style of Melt Transport from Source to	National seminar on Geology and Geo-	Kumaun University, Nainital	2012

Sink: Evidence from Pangong Metamorphic Complex, NW Indian Himalaya	resources of Himalaya and Cratonic regions of India		
Timing of Asian Indian Collision evident from U-Pb-Lu-Hf isotopes of zircons from granitoids and enclaves of Ladakh batholiths, NW Himalaya.	27th Himalayan-Karakoram-Tibet Workshop	Kathmandu, Nepal	2012
Granitoids and their enclaves from Ladakh batholith, Higher Himalaya: Implications on mafic-felsic magma interactions and timing of India-Asia Collision	National seminar on geodynamics and metallogenesis of the Indian Lithosphere	Banaras Hindu University, Varanasi, India	2011
Microgranular enclaves in the evolution of magma chambers and crustal growth.	Invited talk	PG Department of Geology, Institute of Science, Aurangabad.	2011
Geochemistry, zircon U-Pb geochronology and Hf isotopes of granitoids and enclaves from Ladakh batholith, northwest Indian Higher Himalaya	VII Hutton symposium on granites and related rocks	Avila, Spain	2011
SHRIMP U-Pb zircon geochronology of felsic magmatic lithounits in the central part of Bundelkhand craton, central India	VII Hutton symposium on granites and related rocks	Avila, Spain	2011
Mineralogy and petrology of granitoids and enclaves from Jhirdadandi pluton, Sonbhadra district, central India	International symposium on Precambrian Accretionary Orogens and Field workshop in the Dharwar craton, southern India	Delhi University	2011
Moderate Sr/Y calc-alkaline (high-silica adakite?) Proterozoic felsic magmatism in western Arunachal Himalaya, Northeast India. International symposium on Precambrian Accretionary Orogens and Field workshop in the Dharwar craton, southern India	International symposium on Precambrian Accretionary Orogens and Field workshop in the Dharwar craton, southern India	Delhi University	2011
Microgranular enclaves in Paleoproterozoic A-type Dongargargh granitoids, central India: evidence of interaction between fractionating mafic and felsic magmas. International symposium on Precambrian Accretionary	International symposium on Precambrian Accretionary Orogens and Field workshop in the Dharwar craton, southern India	Delhi University	2011

Orogens and Field workshop in the Dharwar craton, southern India.			
Microgranular enclaves in Neoproterozoic South Khasi granitoids of Meghalaya plateau, northeast India: evidence of magma mixing, mingling and undercooling processes at mid-crustal level.	7th Annual Meeting of Asia-Oceania Geoscience Society (AOGS)	Hyderabad International Convention Centre, India	2010
Stress analysis of mafic dykes in Pithoragarh area, Kumaun Lesser Himalaya, India	6th International Dyke Conference	International Dyke Conference (IDC), BHU, Varanasi, India	2010
Mineralogy and geochemistry of mafic dykes from Kumaun Lesser Himalaya,	6th International Dyke Conference	International Dyke Conference (IDC), BHU, Varanasi, India	2010
Ladakh Igneous Province, northwest Indian Higher Himalaya is a MASLI system: Evidence from microgranular enclaves and syn-plutonic mafic dykes	6th International Dyke Conference	International Dyke Conference (IDC), BHU, Varanasi, India	2010
Mineralogy and petrology of mafic dykes in the Precambrian Almora Crystallines, Kumaun lesser Himalaya, India	II International conference on Precambrian Continental Growth and Tectonism (PGCT-2009)	Institute of Earth Science, Bundelkhand University, Jhansi, India,	2009
Magnetic susceptibility and geochemistry of felsic igneous rocks from western Arunachal Himalaya: Implication on granite series evaluation in organic belt.	II International conference on Precambrian Continental Growth and Tectonism (PGCT-2009)	Institute of Earth Science, Bundelkhand University, Jhansi, India,	2009
Magnetic susceptibility mapping of felsic magmatic lithounits in the central part of Bundelkhand massif, central India.	II International conference on Precambrian Continental Growth and Tectonism (PGCT-2009)	Institute of Earth Science, Bundelkhand University, Jhansi, India,	2009
Nature and origin of enclaves and syn-magmatic dykes in felsic plutons: Implication on the evolution of calc-alkaline magma chamber and crustal growth	II International conference on Precambrian Continental Growth and Tectonism (PGCT-2009)	Institute of Earth Science, Bundelkhand University, Jhansi, India,	2009
Petrogenesis and tectonic setup of granitoids from Kameng-Sela-Tawang transect of western Arunachal Himalaya, northeast India	24 th HKT International workshops	Beijing, China	2009
Ladakh igneous province, northwest Indian Higher Himalaya is a MASLI system:	24 th HKT International workshops	Beijing, China	2009

Evidence from microgranular enclaves and synplutonic mafic dykes			
Geochemistry and petrogenesis of granitoids from Kameng corridor of Arunachal Himalaya, northeast India.	23 rd -Himlayan-Karakoram-Tibet (HKT)	International workshop at Leh, India	2008
Mineralogy and geochemistry of mafic to hybrid microgranular enclaves and felsic host of Ladakh batholith, northwest Himalaya: evidence of multistage complex magmatic processes.	23 rd -Himlayan-Karakoram-Tibet (HKT)	International workshop at Leh, India	2008
Redox series, mineralogy and geochemistry of granitoids from Kameng region of Arunachal Himalaya, Northeast India; implication on collision related felsic magmatism.	National seminar on Magmatism, Tectonism and Mineralization	Kumaun University, Nainital	2007
Elemental mobility near surface geochemical environment and its likely impact on human health: an example from Bhimtal watershed region of Kumaun Lesser Himalaya	National seminar on Magmatism, Tectonism and Mineralization	Kumaun University, Nainital	2007
Petrology and geochemistry of microgranular enclaves hosted in Mt Abu granites, South-western Rajasthan.	National seminar on Magmatism, Tectonism and Mineralization	Kumaun University, Nainital	2007
Redox state and geobarometry of Paleoproterozoic hornblende biotite granitoid of Bundelkhand massif: evidence from ferromagnesian minerals	International conference on PCGT	Bundelkhand University, Jhansi.	2005
Reduced to oxidized type porphyry copper (\pm molybdenum \pm Gold) hosting Palaeoproterozoic malanjhand granitoids and enclaves, central India: evidence from magnetic susceptibility, phase petrology and geochemistry	IX Convention of Mineralogical Society of India and National Seminar on Exploration for platinum Group Elements (PGE), Gold and diamonds in India	National Geophysical Research Institute, Hyderabad.	2007
Mineralogy and Petrology of Early Palaeozoic granitoids of Kinnaur district, Himachal Higher Himalaya	Workshop on Geo-collision Zone and Geodynamics	Wadia Institute of Himalayan Geology, Dehradun	2007
Bimodal Pan-African felsic magmatism in Songsak regions of East Garo Hills, Meghalaya: Evidence from field relation,	National Seminar on Explore G ²	Periyar University, Salem	2007

magnetic susceptibility and biotite composition			
Field relation and magnetic susceptibility mapping of mafic to hybrid magmatic enclaves and felsic host along various transects of Ladakh batholith, Northwest Himalaya: Evidence of coeval mafic-felsic magma mixing, mingling and changing redox condition	National Seminar on Active and Fossil Suture Zones	WIHG, Dehradun,	2007
Petrology and geochemistry of microgranular enclaves hosted in Palaeoproterozoic Granitoids of Malanjkhand, central India: Implication on magma mixing and mingling.	National Workshop on Mineral Deposit Modelling, Seventh Convention of SAAEG	Nagpur University, Nagpur	2005
Microgranular enclaves hosted in Early Ordovician Kyrdem Granitoids of Meghalaya plateau, northeast India: Products of complex magmatic processes in deep-seated environment	National Seminar on Geology and Energy Resources of NE India: Progress and Perspectives and AGM	Geological Society of India, Guwahati University	2005
Tectono-magmatic history and possible sources of the stanniferous granitoids of Bastar craton, central India.	International conference on PCGT	Bundelkhand University, Jhansi.	2005
Geochemistry of biotite, muscovite and tourmaline from Early Palaeozoic granitoids of Kinnaur district, Higher Himachal Himalaya.	19 Himalayan-Karakoram-Tibetan Workshops	Niseko, Japan,	2004
Petrography and chemistry of clinopyroxenes of Bhowali-Bhimtal mafic volcanics, Kumaun Lesser Himalaya	National Seminar on Recent advances in Himalayan Geology with special reference to the NW Himalaya	CAS in Geology, Punjab University, Chandigarh.	2004
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Signature of the faculty member