

Publications

PEER REVIEWED JOURNALS

1. **Jain, V., Sonam, Singh, A.,** Sinha, R., Tandon, S.K. (2019) Evolution of modern river systems: an assessment of 'landscape memory' in Indian river systems. *Episodes, In Press*.
2. **Agarwal, N.,** Haridas, A., Khanna, N., Srivastava, P. and **Jain, V.** (2019) Study of Morphology and Degradation of Craters on the Far-side of the Moon using Chandrayaan-1 Data. *Planetary and Space Science, 167, 42-53*.
3. **Jain, V.,** Beyene, M., **Varay, L.S.,** Wasson, R.J., Jain, S (2019) Riverine Flood Hazard (Part A): types, processes and causative factors. *Proceedings of the Indian National Science Academy (PINSAs)*. DOI: 10.16943/ptinsa/2018/49471.
4. Wasson, R.J., **Jain, V.,** Katuri, A., Lahiri, S., Prakash, S., Singhvi, A.K., Varma, N., Bansal, P., Joon, C.C. (2018) Riverine Flood Hazard (Part B): Disaster Risk Reduction in India. *Proceedings of the Indian National Science Academy (PINSAs)*. DOI: 10.16943/ptinsa/2018/49502.
5. Mishra, K., Sinha, R., **Jain, V.,** Nepal, S., Uddin, K. (2018) Towards the assessment of sediment connectivity in a large Himalayan river basin. *Science of the Total Environment, 661, 251-265*.
6. **Dey, S., Kaushal, R.K., Sonam** and **Jain, V.** (2019) Spatiotemporal Variability of Neotectonic Activity Along the Southern Himalayan Front: A Geomorphic Perspective. *Journal of Geodynamics*. (doi.org/10.1016/j.jog.2018.09.003)
7. **Sonam** and **Jain, V.** (2018) Geomorphic effectiveness of long profile shape and the role of inherent geological controls in the Himalayan Hinterland area of the Ganga River basin, India. *Geomorphology, 304, 15-29*.
8. **Sahoo, R.** and **Jain, V.** (Dec, 2018) Sensitivity of GIUH derived hydrological response of a river basin to the spatial resolution of DEM data. *Computers & Geosciences, 111, 78-86*.
9. **Kaushal, R.,** Singh, V., Mukul, M., **Jain, V.** (2017) Identification of deformation variability and active structure using geomorphic markers in Nahan Salient, NW Himalaya, India. *Quaternary International, 462, 194-210*. DOI: 10.1016/j.quaint.2017.08.015.
10. **Varay, L.S.,** Rai, S.P., Singh, S.K. and **Jain, V.** (2017) Estimation of glacial melt contribution through stable isotope measurement and its impact on river morphology through stream power approach in two Himalayan river basins. *Environmental Earth Sciences, 76 (23), 809*. DOI: 10.1007/s12665-017-7142-3.
11. **Varay, L. S.,** Sigh, S.K., **Jain, V.** (2017) Sediment generation potential from permafrost in two neighbouring Himalayan river basins: a first order geomorphic analysis using GIS. *Himalayan Geology, 38(2), 1-10*.
12. Sinha, R., Mohanta, H., **Jain, V.,** Tandon, S.K. (2017) Geomorphic diversity as a river management tool and its application to the Ganga River, India. *River Research and Applications, 33(7), 1156-1176*. DOI: 10.1002/rra.3154.
13. Dey, S., Thiede, R., C., Schildgen, T.F., Wittmann, H., Bookhagen, B., Dirk Scherler, D., **Jain, V.,** Strecker, M.R. (2016) Climate-driven sediment aggradation and incision since the Late Pleistocene in the NW Himalaya, India. *Earth and Planetary Science Letters, 449, 321-331*, DOI: 10.1016/j.epsl.2016.05.050.
14. Densmore, A., Sinha, R., Sinha, S., Tandon, S.K., **Jain, V.** (2016) Sediment storage and release from Himalayan piggyback basins and implications for downstream river morphology and evolution. *Basin Research* . DOI: 10.1111/bre.12116, 1-16.
15. **Jain, V.,** Sinha, R., Singh, L.P., Tandon, S.K. (2016) River systems in India: the Anthropocene context. *Proceedings of the Indian National Science Academy (PINSAs), 82(3), 747-761*, DOI: 10.16943/ptinsa/2016/48482.

16. Bhattacharjee, D., **Jain, V.**, Chattopadhyay, A., Biswas, R.H., Singhvi, A.K. (2016) Geomorphic evidences and chronology of multiple neotectonic events in a cratonic area: Results from the Gavilgarh Fault Zone, central India. *Tectonophysics*, 677-678, 199-217.
17. Bawa, N., **Jain, V.** ©, Shekhar, S., Kumar, N.* , Jyani, V. (2014) Controls on Morphological Variability and Role of Stream Power Distribution, Yamuna River, western India. *Geomorphology*, 227, 60-72. doi: 10.1016/j.geomorph.2014.05.016.
18. Kumar, R.* , **Jain, V.**©, G. Prasad Babu, G., Sinha, R. (2014) Connectivity structure of the Kosi Megafan and role of rail-road transport network. *Geomorphology*, 227, 73-86. doi: 10.1016/j.geomorph.2014.04.031.
19. Sinha, R., Sripriyanka, K., **Jain, V.**, Mukul, M. (2014) Avulsion threshold and planform dynamics of the Kosi River in north Bihar (India) and Nepal: A GIS framework. *Geomorphology*, 216, 157-170.
20. **Jain, V.**, Tandon, S.K., Sinha, R. (2012) Application of modern geomorphic concepts for understanding the spatio-temporal complexity of the large Ganga river dispersal system. *Current Science*, 103(11), 1300-1319.
21. Sinha, R., **Jain, V.**, Tandon, S.K., Chakraborty, T. (2012) Large river systems of India. *Proceeding of Indian National Science Academy (PINSA)*, 78(3), 277-294.
22. Barnes, J. B., Densmore, A. L., Mukul, M., Sinha, R., **Jain, V.** and Tandon, S. K. (2011) Interplay between faulting and base level in the development of Himalayan frontal fold topography, *Journal of Geophysical Research*, 116, F03012, doi:10.1029/2010JF001841.
23. **Jain, V.** and Tandon, S.K. (2010) Conceptual assessment of (dis)connectivity and its application to the Ganga river dispersal system. *Geomorphology*, 118, 349-358.
24. Singh, T. and **Jain, V.** (2009) Tectonic constraints on watershed development on frontal ridges: Mohand Ridge, NW Himalaya, India. *Geomorphology*, 106, 231-241.
25. Wasson, R.J., Juyal, N., Jaiswal, M., McCulloch, M., Sarin, M.M., **Jain, V.**, Srivastava, P., Singhvi, A.K.(2008) The mountain-lowland debate: Deforestation and sediment transport in the Upper Ganga catchment. *Journal of Environment Management*, 88, 53-61.
26. **Jain, V.**, Fryirs, K., Brierley, G.(2008) Where do floodplains begin? The role of total stream power and longitudinal profile form on floodplain initiation processes, *Geological Society of America Bulletin* 120 (1/2), 127-141; doi: 10.1130/B26092.1.
27. Brierley, G., Fryirs, K. and **Jain, V.** (2006) Landscape connectivity: The geographic basis of geomorphic applications. *Area*, 38, 165-174.
28. **Jain, V.**, Preston, N., Fryirs, K. and Brierley, G. (2006) Comparative assessment of three approaches for deriving stream power plots along long profiles in the upper Hunter River catchment, New South Wales, Australia. *Geomorphology*, 74, 297-317.
29. Tandon, S.K., Gibling, M.R., Singh, R., Singh, V., Ghazanfari, P., Dasgupta, A., Jain, M. and **Jain, V.** (2006) Alluvial valleys of the Gangetic Plains, India: causes and timing of incision. *In: Incised Valleys in Time and Space (Edited by) Dalrymple, R. W., Tillman, R. W., Leckie, D. A.*, SEPM Special Publication no. 85, 15-35, ISBN: 1565761227, 9781565761223.
30. Sinha, R, **Jain, V.**, Prasad Babu, G. and Ghosh, S. (2005) Geomorphic characterization and diversity of the rivers of the Gangetic plains. *Geomorphology*, 70, 207-225.
31. **Jain, V.** and Sinha, R. (2005) Response of active tectonics on the alluvial Baghmata River, Himalayan foreland basin, eastern India. *Geomorphology*, 70, 339-356.
32. Sinha, R., Gibling, M. R., **Jain, V.** and Tandon, S. K (2005) Sedimentology and avulsion patterns of the anabranching Baghmata River in the Himalayan foreland basin, India. *In: Fluvial Sedimentology* (eds. Blum, M. and Marriott, S.), Special publication of the International Association of Sedimentologists, 35, 181-196.

33. Sinha, R., Gibling, R., Tandon, S. K., **Jain, V.** and Dasgupta, A. S.,(2005) Quaternary stratigraphy and sedimentology of the Kotra section on the Betwa River, southern Gangetic plains, Uttar Pradesh. **Journal of the Geological Society of India**, 65, 441-450.
34. **Jain, V.** and Sinha, R. (2004) Fluvial dynamics of an anabranching river system in Himalayan foreland basin, north Bihar Plains, India. **Geomorphology**, 60 (1-2), 147-170.
35. **Jain, V.** and Sinha, R. (2003) Evaluation of geomorphic control on flood hazard through GIUH. **Current Science**, 85 (11), 1596-1600.
36. **Jain, V.** and Sinha, R. (2003) Derivation of Unit Hydrograph and 50-yr flood from GIUH analysis for the Himalayan river. **Water Resources Management** 7, 355-375.
37. **Jain, V.** and Sinha, R. (2003) River systems in the Gangetic plains and their comparison with the Siwaliks: A review. **Current Science**, 84(8), 1025-1033.
38. **Jain, V.** and Sinha, R. (2003) Hyperavulsive-anabranching Baghmata river system, north Bihar plains, eastern India. **Zeitschrift fur Geomorphologie**, 47(1), 101-116.
39. **Jain, V.** and Sinha, R. (2003) Geomorphological manifestation of the flood hazard. **Geocarto International**, 18 (4), 51-60.
40. **Jain, V.** and Sinha, R. (2003) Data requirement for geomorphological studies of rivers and their significance. **Journal of Applied Hydrology**, XVI (2), 18-42.
41. Sinha, R., Khanna, M., **Jain, V.** and Tandon, S.K. (2002) Mega-geomorphology and sedimentation history of parts of the Ganga-Yamuna plains. **Current Science**, 82 (5), 101-106.
42. Sinha, R. and **Jain, V.** (1998) Flood hazards of north Bihar rivers, Indo-Gangetic Plains. In: Kale, V.S. (ed.) **Flood studies in India**; Geological Society of India, Memoir 41, 27-52.

BOOK CHAPTERS

1. **Jain, V., Guha, S., Varay, L.S.** (2018) River response to climate change: Geomorphic approach to understand past responses and river's future. In: Climate Change and Water Resources in India (Eds. Mishra, V. and Bhatt, J.R.), Ministry of Environment, Forest & Climate Change, ISBN: 978-81-933131-6-9.
2. Sinha, R., **Jain, V.,** Gaurav, K. (2018) Geomorphic changes and sediment dynamics in Rivers: Causes and Consequences. In: Water Futures in India: Status of Science and Technology (Ed. Mujumdar, P.P. and Tiwari, V.), Indian National Science Academy (INSA), IISc Press, pp. 401-450.
3. **Jain, V.,** Kumar, R., Kaushal, R., Gautam, T., Singh, S.K. (2018) The Dynamic Kosi River and its tributaries. In: Indian Rivers: An introduction for Science and Society (Ed. Singh, D.S.). Springer. Pp. 221-238. ISBN: 978-981-10-2983-7.
4. Prasad, R., Prabhakar, V.N., **Jain, V.** (2017) Geological Aspects of Raw Materials for Stone Beads. In: Stone beads of south and southeast Asia (Ed. Kanungo, A.K.) Aryan Books International. ISBN No. 7988173055478, pp. 115-126.
5. Sinha, R., Jain, V., Tandon, S.K., (2012) River Systems and River Science in India: major drivers and challenges. In: Earth System Processes and Disaster Management. (Eds. Sinha, R. Ravindra, R.) Springer-Verlag Publications, pp. 67-90.
6. Sinha, R. and **Jain, V.** (2002) Quaternary geomorphology of the upper and middle Ganga plains: A review. In: Recent Advances in Geomorphology, Quaternary Geology and Environmental Geosciences: Indian Case Studies (Eds. Tandon, S.K. and Thakur, B.), Manisha Publications, New Delhi, pp. 117-142.

SEMINAR PROCEEDINGS

1. Jain, V. (2010) Process based understanding of fluvial systems in Bihar plains and applications in fluvial hazard management. Proceeding of DST Workshop on 'Geology and Metallogeny of Bihar and Jharkhand States', Hazaribagh, Jharkhand.
2. Sinha, R. and **Jain, V.** (2004) Aggradation-degradation in Gangetic river systems: A process-response framework; Seminar on Silting of Rivers: Problems and solutions, Ministry of Water Resources, New Delhi, India, pp. 1-11.
3. Singhvi, A.K., Jaiswal, M., Juyal, N. and **Jain, V.** (2004) Luminescence dating studies at the Physical Research Laboratory; Proc. of International Conference on Luminescence and its Applications, BARC Mumbai, India, pp. 73-75.
4. **Jain, V.** and Sinha, R. (2001) Monitoring fluvial hazard from space: A case study from north Bihar Plains, India; ICORG, Spatial Information Technology: Remote Sensing Application and Geographic Information Systems, BS Publications, Hyderabad, 2, 11-16.
5. Anbalagan, R., Srivastava, N.C.N. and **Jain, V.** (2000) Slope stability studies of Vyasi Dam reservoir area, Garhwal Himalaya, U.P., India; Proc. of 8th International Symposium on Landslides, Cardiff, UK , pp. 1-6.

ORAL AND POSTER PRESENTATIONS AT CONFERENCES

1. Shukla, T. and Jain, V. (2018) *Sediment budgeting as a tool for sustainable sediment mining, case study from a bedrock river in Peninsular India.* AGU 2018 Fall Meeting. 10-14 Dec., Washington, D.C. **(Tanya Shukla received 2018 AGU Fall Meeting Berkner Travel Fellowship – full funding to support to present her work in the AGU Fall meeting)**
2. Kaushal, R.K., Mukul, M., Singh, V., Jaiswal, M., Nair, A.S., Singh, A., Jain, V. (2018) *Increased late Holocene shortening across the segmented Main Frontal Thrust in Nahan salient, northwest Sub- Himalaya.* AGU 2018 Fall Meeting. 10-14 Dec., Washington, D.C. **(Rahul Kaushal received partial travel grant from AGU to attend this meeting)**
3. Kaushal, R.K., Kumar, V., Jain, V. (2018) *Incorporation of Slope and Rainfall Variability in Channel Network Extraction from Digital Elevation Model.* AGU 2018 Fall Meeting. 10-14 Dec., Washington, D.C.
4. Guha, S., Dey, S., Jain, V. (2018) *Lithological and structural control on landscape evolution in the western Ghat in Peninsular.* AGU 2018 Fall Meeting. 10-14 Dec., Washington, D.C. **(Shantamoy Guha received partial travel grant from AGU to attend this meeting)**
5. Borogohain, B., Salvi, D., Mathew, G., Singhvi, A.K. and Jain, V. (2018) *Detrital thermochronology and hydrodynamic modeling of the Late Quaternary megafloods in the Siang Valley, NE Himalaya.* 16th International Conference on Thermochronology (Thermo 2018), 16-21 September 2018 · Palais Salfeldt · Quedlinburg (Germany).
6. Shukla, T., Sonam and Jain, V. (2018) *Spatial variability in channel processes and its applications for river management, in 6th International Symposium on Advances in Civil and Environmental Engineering Practices, for Sustainable Development (ACEPS-2018), Galle, SL, Mar. 15, 2018.*
7. Sahoo, R., Singh, R.N., Jain, V. (2018). *Fractality of drainage networks in a tectonically active region of North-West Himalaya.* In EGU General Assembly Conference Abstracts (Vol. 20, p. 12922).
8. Sonam, S., Sahoo, R., Singh, R. N. and Jain, V. (2018) *Temporal variability in uplift rate in a neotectonically active pericratonic rift basin using river long profile inversion method.* In EGU General Assembly Conference Abstracts (Vol. 20, p. 593). **(Sonam received full travel grant from DST to attend this meeting)**
9. Guha, S. and Jain, V. (2017) *Predominant lithological over climatic control on the variability of landscape characteristics in tectonically passive Western Ghat.* 9th IAG International Conference on Geomorphology (ICG). New Delhi, India. November 2017.
10. Sahoo, R. and Jain, V. (2017) *Process interpretation using Fractal dimension: A case study*

- from NW Himalaya, *9th IAG International Conference on Geomorphology (ICG)*. New Delhi, India. November 2017.
11. Sonam and **Jain, V.** (2017) River Long Profile and Stream Power Analysis to map Spatial Variability in Geomorphic Processes Along Major Rivers of Peninsular India. *9th IAG International Conference on Geomorphology (ICG)*. New Delhi, India. November 2017.
 12. Prasad, R., Singh, S. and Jain, V. (2017) Lithological and Climatic controls on Chemical denudation in small watersheds of the Western India. *9th IAG International Conference on Geomorphology (ICG)*. New Delhi, India. November 2017.
 13. Chakraborty, NB, Jain, V., Shekhar, S. (2017). Incorporation of geomorphic criteria to define environmental flow in a Himalayan river, Yamuna River system, India. *9th IAG International Conference on Geomorphology (ICG)*. New Delhi, India. November 2017
 14. Sonam and **Jain, V.** (2017) Geomorphic effectiveness of long profile shape and role of inherent geological controls in Ganga River Basin, India. *European Geosciences Union (EGU) General Assembly*. Vienna, Austria. April 2017.
 15. Ramendra Sahoo and Jain, V. (2017) Inferring tectonic activity using drainage network and RT model: an example from the western Himalayas, **India**. *European Geosciences Union (EGU) General Assembly*. Vienna, Austria. April 2017.
 16. **Jain, V., Shekhar, S., Chakraborty, NB** (2017) Challenges in the geomorphic management of a river system in response to urbanisation expansion around a mega city: Case study from Yamuna River around Delhi NCR. *International Symposium on Sustainable Urban Environment (ISSUE 2017)*. Tezpur University, Assam, June, 2017
 17. Chakraborty, N. B., Jain, V. and Shekhar, S. (2016) Impact of a megacity on the connectivity of a large river system, *35th International Geological Congress*, Sept 2016, Cape Town, South Africa.
 18. **Jain, V.** (2016) Stream power distribution pattern: A unified concept in fluvial geomorphology. *Conference on Developments in Geosciences in the Past Decade – Emerging Trends for the Future & Impact on Society & Annual General Meeting of the Geological Society of India – 2016*, IIT Kharagpur, October 2016.
 19. Sonam and **Jain, V.** (2016) Stream power distribution pattern along the major Himalayan Tributaries of Ganga Basin and its geomorphic implications. *Conference on Developments in Geosciences in the Past Decade – Emerging Trends for the Future & Impact on Society & Annual General Meeting of the Geological Society of India – 2016*, IIT Kharagpur, October 2016
 20. Sahoo, R. and Jain, V. (2016) Sensitivity of Landscape Evolution model to hydrological and tectonic parameters and its application to study megafan building activity. *Conference on Developments in Geosciences in the Past Decade – Emerging Trends for the Future & Impact on Society & Annual General Meeting of the Geological Society of India – 2016*, IIT Kharagpur, October 2016.
 21. **Jain, V., Kaushal, RK, Kumar, V.** (2015) Incorporation of slope variability in channel network extraction from DEM. *30th Himalayan-Karakoram-Tibet Workshop*, Wadia Institute of Himalayan Geology Dehradun.
 22. Sahoo, R. and Jain, V. (2015) Deciphering tectonic history using the drainage network, an example from the Himalaya. *30th Himalayan-Karakoram-Tibet Workshop*, Wadia Institute of Himalayan Geology Dehradun.
 23. Sonam and **Jain, V.** (2015) Geological controls on the long profiles of the major rivers of the Ganga River Basin and its implications in geomorphic studies. *30th Himalayan-Karakoram-Tibet Workshop*, Wadia Institute of Himalayan Geology Dehradun.
 24. Kaushal, R., Das, P., Jain, V. (2015) Mapping of reach scale stream power variability using SWAT model, Kosi River Basin, India. *30th Himalayan-Karakoram-Tibet Workshop*, Wadia Institute of Himalayan Geology Dehradun.
 25. Varay, L.S., Rai, S.P., Singh, S.K. and Jain, V. (2015) Stable isotopic characterization of water samples from north- west Himalayan river basins and implications on glacio-fluvial

- coupling. 30th Himalayan-Karakoram-Tibet Workshop, Wadia Institute of Himalayan Geology Dehradun.
26. Thiede, R., Dey, S., Nennewitz, M., Bookhagen, B., **Jain, V.** Strecker, M. (2015) Review of tectonic deformation zones across the Himalayas of northwest India. 30th Himalayan-Karakoram-Tibet Workshop, Wadia Institute of Himalayan Geology Dehradun.
 27. **Jain, V.**, Tandon, S.K., Sinha, R. (2013) An appraisal of geomorphic complexity of a large tropical river, Ganga River System, India. 8th Conference of International Association of Geomorphologists, Paris.
 28. Bawa, N., Jain, V., Shekhar, S., (2013) Stream power based threshold identification for explaining channel morphological variability, Yamuna River system, India. 8th Conference of International Association of Geomorphologists, Paris.
 29. Sinha, R., Mozumder, C., **Jain, V.** (2013) Geomorphic considerations for environmental flow and habitat suitability in the Ganga river system, India. 8th Conference of International Association of Geomorphologists, Paris.
 30. **Jain, V.** (2012) Geological controls on long profile evolution in the Ganga River basin, India. IGCP 481 - Symposium on Response of Asian rivers to climate change- past , present and future scenario. National Geophysical Research Institute, Hyderabad.
 31. Bawa N., Jain V., Shekhar S., Jyani* V. (2012) Geomorphic variability in Yamuna river basin and role of geological characteristics. IGCP 481 Symposium on Response of Asian rivers to climate change- past , present and future scenario., National Geophysical Research Institute, Hyderabad.
 32. Kumar R., Jain V. (2012) Geomorphic connectivity analysis of intermontane dun valley: a Quantitative approach. IGCP 481 Symposium on Response of Asian rivers to climate change- past , present and future scenario. National Geophysical Research Institute, Hyderabad.
 33. Bawa N., Jain V., 2012. Spatio-temporal dynamics of channel morphology: A process based tool to analyse and manage river health. Groupe des Ecoles des Mines (GEM) - Indian Institute of Technology (IIT) Water Seminar 2012., Indian Institute of Technology, Delhi. (11nd Best Poster Award)
 34. **Jain, V.**, 2012. Sediment dynamics and geomorphic connectivity in the Ganga River basin at cross over of scales. Tropical Rivers, IGCP 482, Annual meeting and Conference on Tropical Rivers: Hydro-Physical Processes, Impacts, Hazards and Management, IIT Kanpur, pp. 6.
 35. Varay, L.S. and Jain, V., 2012. Complex scenario of fluvial geomorphologic responses to glacial melting: A first order synthesis for the Himalayan rivers. Tropical Rivers, IGCP 482, Annual meeting and Conference on Tropical Rivers: Hydro-Physical Processes, Impacts, Hazards and Management, IIT Kanpur, pp. 49.
 36. Bawa, N., Jyani, V., Tyagi, P., Jain, V., Shekhar, S. 2012. Morphological variability in the Yamuna River system and role of stream power distribution pattern. Tropical Rivers, IGCP 482, Annual meeting and Conference on Tropical Rivers: Hydro-Physical Processes, Impacts, Hazards and Management, IIT Kanpur, pp. 12. . (11th Best Poster Award)
 37. Kumar, R., Gaurav, K., Jain, V., Sinha, R., 2012. River (dis)connectivity in Kosi River basin and its temporal and spatial dynamics. Tropical Rivers, IGCP 482, Annual meeting and Conference on Tropical Rivers: Hydro-Physical Processes, Impacts, Hazards and Management, IIT Kanpur, pp. 24.
 38. Tyagi, P., Bawa, N., Jain, V., 2012. Geomorphic response of a river system to urbanization, a study from Yamuna channel reach around Delhi NCR. Tropical Rivers, IGCP 482, Annual meeting and Conference on Tropical Rivers: Hydro-Physical Processes, Impacts, Hazards and Management, IIT Kanpur, pp. 25.

39. Jain, V. (2011) Role of geoinformatics in river basin management. *IGCP, Delhi Tropical Rivers, IGCP 482, Tropical Rivers: Hydro-Physical Processes, Impacts, Hazards and Management*, GSI Delhi.
40. **Jain, V.** (2011) Tracking geomorphic change at cross-over of scales through quantification of driving force in fluvial systems. *Earth Science Goals. Goals for Earth Sciences in the Current Decade (2011-2020)*. Centre for Earth and Space Sciences, University of Hyderabad and Geological Society of India. pp. 23.
41. **Jain, V.** (2011) Glacial melting, differential river response and rivers future in the Ganga Plains. *Fourth annual Indo-American Kavli Frontiers of Science symposium in Irvine, California, USA*.
42. **Jain, V.** (2011) Threshold and geomorphic (dis)connectivity: tool to understand nonlinear dynamics of fluvial system. *National seminar on Modern and Palaeo Sediments: Implication to Climate, Water Resources and Environmental Changes and XXVIII Convention of Indian Association*, J.N.U., Delhi, pp. 11.
43. Bawa, N., Tyagi, P. and Jain, V. (2011) Spatial variability in channel morphology and role of bar connectivity in the Yamuna river from Panipat to Delhi region. *National seminar on Modern and Palaeo Sediments: Implication to Climate, Water Resources and Environmental Changes and XXVIII Convention of Indian Association*, J.N.U., Delhi, pp. 74.
44. Tyagi, P., Gautam, T., Jain, V. (2011) Stream power distribution and its association with landscape pattern in the Yamuna River basin. *National seminar on Modern and Palaeo Sediments: Implication to Climate, Water Resources and Environmental Changes and XXVIII Convention of Indian Association*, J.N.U., Delhi, pp. 71. . (**IIIrd Best Poster Award**)
45. Gautam, T., Tyagi, P. and Jain, V. (2011) Geological control on stream power distribution pattern, the Kosi River basin, eastern India. *National seminar on Modern and Palaeo Sediments: Implication to Climate, Water Resources and Environmental Changes and XXVIII Convention of Indian Association*, J.N.U., Delhi, pp. 90.
46. Jyani, V., Sathish, S., Jain, V. and Shekhar, S. (2011) Geomorphic mapping in the Yamuna valley and its application in stream management. *National seminar on Modern and Palaeo Sediments: Implication to Climate, Water Resources and Environmental Changes and XXVIII Convention of Indian Association*, J.N.U., Delhi, pp. 72.
47. Mahajan, A., Singh, V., Jain, V., 2011. River response to active tectonic activity in Nahan salient using stream length gradient index, *International Conference on Indian Monsoon and Himalayan Geodynamics*, Wadia Institute of Himalayan Geology, Dehradun. (**IInd Best Poster Award**)
48. Varay, L. S., Kumar, R. Jain, V., 2011. Quantitative assessment of connectivity index: a case study from Rispana river in Garhwal Himalaya. *International Conference on Indian Monsoon and Himalayan Geodynamics*, Wadia Institute of Himalayan Geology, Dehradun.
49. Kumar, R., Jain, V., Singh, V., 2011. River response to anthropogenic and natural forces and its implication on stream management: a case study from Kalagarh river, Dehra Dun, NW Himalaya. *International Conference on Indian Monsoon and Himalayan Geodynamics*, Wadia Institute of Himalayan Geology, Dehradun.
50. **Jain, V.** (2010) River futures in climate change scenario. *National Conclave on 'Earth Systems and Climate Change Research'*, IIT Kanpur, India.
51. **Jain, V.,** Wasson, R.J., Singhvi, A., McCulloch, M., Sinha, R. (2009) Sediment budgeting using OSL dating of fluvial sediments. *Second Asia Pacific Luminescence meeting*, PRL Ahmedabad, India.
52. **Jain, V.,** Wasson, R.J., Singhvi, A., McCulloch, M., Sinha, R. (2008) Source area contribution

and temporal variation in sediment supply: role of inherent geological and topographic controls. Mountain Building & Climate-tectonic Interaction (MBCT), Wadia Institute of Himalayan Geology, India.

53. **Jain, V.** (2008) Anthropogenic effects on a Himalayan Fluvial system at crossover of scales. National workshop on 'Tracking the Anthropocene and beyond: an earth system science approach to evaluate the impacts and implications of human forcing', IISc Bangalore, India.
54. **Jain, V.**, Preston, N., Fryirs, K. and Brierley, G. (2006) Catchment scale derivation of stream power plots along long profiles in the upper Hunter River catchment, New South Wales, Australia. Australia-New Zealand Geomorphology Group (ANZGG), University of Auckland, New Zealand.
55. **Jain V.** (2005) Geomorphic diversity of the Ganga Plains, India and its controls, Rivers Group meeting, University of Wollongong, NSW, Australia.
56. Jaiswal, M.K., **Jain, V.**, Wasson, R.J., Juyal, N. and Singhvi, A.K. (2004) Luminescence characteristics of fluvial sediments from complex lithologies in Himalaya: Implications for SAR and provenance; UK Luminescence and ESR meeting, St. Andrew University, UK.
57. Wasson, R. J, **Jain, V.**, Jaiswal, M., Juyal, N., McCulloch, M, Sarin, M.M., Srivastava, p., Singhvi, A.K. (2004) The Contribution to the sediment budget of landslides in the upper Ganga basin; International Association of Geomorphologists, Regional Conference, Calcutta, India.
58. **Jain, V.** and Sinha, R. (2003) Hydrological Variability and Landscape Evolution in alluvial river system: An example from the Ganga plains, India; XVI International Union for Quaternary Research (INQUA) congress, Reno, USA.
59. Sinha, R., **Jain, V.**, Gibling, M.R., Tandon, S.K. (2003) Geomorphic evolution and stratigraphic development of the quaternary alluvial plains of the Gangetic rivers, India.; 3rd Latin American Congress of Sedimentology, Belém - Pará – Brazil.
60. **Jain, V.** and Sinha, R. (2002) Hydrological controls on the geomorphological variability of Ganga plains and their implications to climate change; 5th International Meeting on Global Continental Palaeohydrology (GLOCOPH-2002), University of Pune, India.
61. **Jain, V.** and Sinha, R. (2001) Bagmati River system in alluvial plains of north Bihar, eastern India: an example of hyperavulsive anabranching river in an interfan setting; 2nd Meeting, IGCP 449- Global Correlation of Late Cenozoic Fluvial Sequences, IIT Kanpur, India
62. **Jain, V.** and Sinha, R. (2001) Quaternary alluvial sedimentation history in north Bihar plains, eastern India: implications for interpretation of ancient fluvial sequences; 2nd Meeting, IGCP 449- Global Correlation of Late Cenozoic Fluvial Sequences, IIT Kanpur, India
63. Sinha, R., Tandon, S.K., Kumar M., **Jain, V.**, Ghazanfari, P., Tripathi J.K. and PrasadBabu, (2001) Quaternary fluvial sequences from Ganga-Yamuna plains: some preliminary results; 2nd Meeting, IGCP 449-Global Correlation of Late Cenozoic Fluvial Sequences, IIT Kanpur, India
64. **Jain, V.** Sinha, J. (2001) Response of neotectonics on the anabranching Bagmati River system, Himalayan foreland basin, eastern India; 7th Int. Conf. Fluvial Sedimentology, University of Nebraska, Lincoln, USA
65. Sinha, R., Gibling, M.R., **Jain, V.** and Tandon, S.K. (2001) Floodplain processes and sedimentation in a hyperavulsive anabranching river system in the Himalayan foreland basin, India; 7th Int. Conf. Fluvial Sedimentology, University of Nebraska, Lincoln, USA
66. **Jain, V** and Sinha, R. (2000) Neotectonics vs. flood hazard in the north Bihar Plains, an integrated study aided by IRS data; Annual Convention of Indian Institute of Remote Sensing,

IIT Kanpur, Kanpur, India.

67. **Jain, V.** and Sinha, R. (1999) Anastomosing river system: form, processes and transformation, Baghmata river, north Bihar; XVI Convention of Indian Association of Sedimentologists, University of Jammu, Jammu, India.
68. **Jain, V.** and Sinha, R. (1998) Catchment control on water and sediment flux of Baghmata river, north Bihar, eastern India; 15th International Sedimentological Congress, Alicante, Spain.
69. Sinha, R. and **Jain, V.** (1997) Overbank flows and floodplain sedimentation, north Bihar Plains, eastern India, XIV Convention of Indian Association of Sedimentologists, University of Madras, Madras, India.

(Name of students and postdocs who worked under my guidance has been underlined)