PEER-REVIEWED CONTRIBUTIONS:

1. Single author contribution (International Journal)

- Spatial variation of seismic b-values across NW Himalaya. *by* **Chandrani Singh,** *Geomatics, Natural Hazards and Risk,* DOI: 10.1080/1947570 (2014).

2. Contributions as a first author (International Journals)

- Frequency and lapse time dependent seismic attenuation in eastern Himalaya and southern Tibet in press, Sagar Singh, **Chandrani** Singh and Arun Singh. Natural Hazard., (2016).

- Lg attenuation tomographic models of Himalaya and southern Tibet *by* **Chandrani Singh**, Pushkar Mondal, Sagar Singh, Debasis D. Mohanty, Namrata Jaiswal and M. Ravi Kumar, *Tectonophysics*, DOI: 10.1016/j.tecto.2015.09.009. (2015).

- Imaging b-value variation beneath the Pamir-Hindukush region. **Chandrani Singh** and Sagar Singh, *Bulletin of Seismological Society of America*, vol. 105 (2A), 808-815 (2015).

- Study of Lapse time dependence Coda Q in the Andaman Islands using the aftershocks of the 2002 earthquake (Mw 6.5). **Chandrani Singh**, Sagarika Mukhopadhyay, Sagar Singh, Pranab Chakraborty and J. R. Kayal, *Natural Hazard,* vol. 75, DOI 10.1007/s11069-014-1337-7, 779-793 (2015).

- Evolution of b-values before large earthquakes of $M_b \geq 6.0$ in Andaman region. Shweta and **Chandrani Singh**, **DOI:** 10.1344/GeologicaActa2015.13.3.3, *Geologica Acta*, (2015).

- Frequency-dependent body wave attenuation characteristics in the Kumaun Himalaya. **Chandrani Singh**, Arun Singh, Srinivasa Bharathi V. K. And R. K. Chadha, *Tectonophysics*, 37-42 (2012)

- Spatial variation of coda wave attenuation in Southern Indian Shield and its implications. **Chandrani Singh**, S. K. Basha, M. Shekar and R. K. Chadha Geologica Acta, 10 (2012)

- Lg attenuation characteristics across Indian Shield. **Chandrani Singh**, Arun Singh, Sagarika Mukhopadhya, M. Shekar and R. K. Chadha, Bulletin of Seismological Society of America, 101, 2561-2567 (2011).

- Seismic attenuation characteristics along the Hi-Climb profiles in Tibet from Lg Q inversion. **Chandrani Singh**, M. Shekar, Arun Singh and R. K. Chadha, Bulletin of Seismological Society of America, 102 (2), 783-789 (2012) .

- Lapse time and frequency-dependent attenuation characteristics of Kumaun Himalaya. **Chandrani Singh**, Srinivasa Bharathi V. K. And R. K. Chadha, Journal of Asian Earth Sciences, 54-55 (2012).

- Variations in the frequency-magnitude distribution with depth in the Koyna, Reservoir site, India. **Chandrani Singh** and R. K. Chadha Journal of Asian Earth Sciences, 39, 331-334 (2010) .

- Fractal and b-value mapping in eastern Himalaya and southern Tibet. **Chandrani Singh**, Arun Singh and R. K. Chadha Bulletin of Seismological Society of America, 99, 3529-3533 (2009).

- Coseismic responses and the mechanism behind MW 5.1 earthquake of March 14, 2005 in the Koyna-Warna region, India. **Chandrani Singh**, D.V. Ramana, R. K. Chadha and M. Shekar Journal of Asian Earth Sciences, 31 (4-6), 499-503 (2008) .

- Seismicity in Koyna-Warna Reservoir Site in Western India: Fractal and b-value Mapping. **Chandrani Singh**, Pankaj Mala Bhattacharya and R.K.Chadha Bulletin of Seismological Society of America, 98 (1), 476-482 (2008).

3. <u>Contribution as a first author (National Journal)</u>

- Drained and Undrained responses for Koyna-Warna earthquakes from 1993 to 1994 following impoundment of the Warna reservoir in India. **Chandrani Singh** and R.K.Chadha, Current Science, 94 (6), 790-796. (2008).

4. <u>Contributions as a second author (International Journals)</u>

- Attenuation characteristics in eastern Himalaya and southern Tibetan Plateau: an understanding of the physical state of the medium. Sagar Singh, Chandrani Singh, Rahul Biswas, Sagarika Mukhopadhyay and Himanshu Sahu. *Physc. Earth and Planet. Int.*, vol. 257, 48-56 (2016).

- A review of crust and upper mantle structure beneath the Indian subcontinent. Arun Singh, **Chandrani Singh** and B. L. N Kennett, *Tectonophysics*, 644–645, 1-21 (2015).

- Modelling the hydromechanical response in the neighborhood of Koyna reservoir (India): Results of the initial filling period. Pierre Gavrilenko, **Chandrani Singh** and R. K. Chadha Geophysical Journal International, 183, 461-477 (2010).

- Transient well water level changes in bore wells in western India due to 2004 Sumatra earthquake of Mw 9.3. R. K. Chadha, **Chandrani Singh** and M. Shekar Bulletin of Seismological Society of America, 98 (5), 2553-2558 (2008).

- Temporal migration of earthquakes in Koyna -Warna (India) region by pore - fluid diffusion. B. R. Rao and **Chandrani Singh** Journal of Seismology, 12, 547-556 (2008) .

5. <u>Other Contributions (International Journals)</u>

- Significant seismic anisotropy beneath southern Tibet inferred from splitting of direct S-waves *by* Singh, A., Eken, T., Mohanty, D., Saikia, D., Singh, C., Kumar, M. R. *Physc. Earth and Planet. Int.*, (2015)

- Water level fluctuation due to earthquakes in Koyna-Warna region, India. D.V.Ramana, R.K.Chadha, **Chandrani Singh** and M. Shekar Natural Hazard, 40, 585-592 (2007)

- The relation between Seismicity and water level changes in the Koyna – Warna region, India. J. Pavan Kumar , D.V. Ramana, R.K. Chadha, **Chandrani Singh** and M.Shekar, Natural Hazards and Earth System Sciences, 12 (2012)

B] Achievements

- The paper entitled "*Attenuation characteristics in eastern Himalaya and southern Tibetan Plateau: an understanding of the physical state of the medium*" became one of the **Most Downloaded** "*Physics of the Earth and Planetary Interiors*" Articles. (2016).

- The paper entitled "*Crustal structure and tectonics of Bangladesh: New constraints from inversion of receiver functions*" became one of the **Most Downloaded** "*Tectonophysics*" Articles. (2016).

- The paper entitled "*Imaging b-Value Variation beneath the Pamir–Hindu Kush Region*" became one of the **Most Read** Bulletin of Seismological Society of America Articles (2015).

- The paper entitled "*A review of crust and upper mantle structure beneath the Indian subcontinent"* became one of the **Most Downloaded** *Tectonophysics* Articles. (2015).

- The paper entitled "Significant seismic anisotropy beneath southern Tibet inferred from splitting of direct S-waves" became one of the **Most Downloaded** "*Physics of the Earth and Planetary Interiors*" Articles. (2015).

- The paper entitled *"Fractal and b - Value Mapping in Eastern Himalaya and Southern Tibet"* became one of the **Most Read (two times)** "*Bulletin of Seismological Society of America"* Articles (2013).

- Manuscript reviewer for Journal of Seismology, Tectonophysics, Lithosphere, Geophysics Frontier, Natural Hazard, Journal of Earth System Science, Bulletin of Seismological Society of America, Current Science and Journal of Oceanography.

Sponsored Projects:

- Project Title : Crustal seismic attenuation characteristics in Nepal Himalaya and southern Tibet from Lg Q inversion
  Principal Investigator : Dr. Chandrani Singh
  Sponsor : ISIRD

- Project Title : Characterization of Seismicity in the Kumaun Himalaya for Hazard Assessment
  Principal Investigator : Dr. Chandrani Singh
  Co-Principal-Investigators : Dr. Arun Singh (IITKGP), Dr. R. K. Chadha (NGRI)
  Sponsor : MOES (Ministry of Earth Sciences Govt. of India)

- Project Title: Geodynamics of crustal accretion, growth and related mineralization across the craton - Eastern Ghats Belt contact: an integrated geological and seismic investigation.
  Principal Investigator : Dr Arun Singh
  Co-Principal-Investigators : Dr Chandrani Singh
  Sponsor : MOES (Ministry of Earth Sciences Govt. of India)