

List of Publications

In Referred Journal

1. **Khan, P. K.**, Ghosh, M., Chakraborty, P.P. and Mukherjee, D., 2010, Seismic b-value and the assessment of ambient stress in Northeast India, *Pure and Applied Geophysics*, DOI: 10.1007/s00024-010-0194-x (in press).
2. **Khan, P. K.**, 2010, Role of unbalanced slab resistive force in the 2004 off Sumatra mega-earthquake ($M_w > 9.0$) event, *International Journal of Earth Sciences*, DOI: 10.1007/s00531-010-0576-4 (in press).
3. **Khan, P.K.**, Mukherjee, G. and Chakraborty, P.P., 2010, Seismotectonic overview of the Burma-Andaman-Sumatra subduction margin preceding the 2004 off Sumatra mega-event, *Memoir, Journal of the Geological Society of India*, 81-95.
4. **Khan, P.K.**, Mohanty, S. and Mohanty, M., 2010, Geodynamic implications for the 8 October 2005 North Pakistan earthquake, *Surveys in Geophysics*, DOI 10.1007/s10712-009-9083-1.
5. **Khan, P. K.**, Ghosh, M. and Srivastava, V. K., 2009, Seismic a-value and the spatial stress-level variation in Northeast India, *Journal of Indian Geophysical Union*, 13, 49-62.
6. Kayal, J.R., Srivastava, V.K., Bhattacharya, S.N., **Khan, P.K.** and Chatterjee, R., 2009, Source parameters and focal mechanisms of local earthquakes: single broadband observatory at ISM Dhanbad, *Journal of the Geological Society of India*, 74, 413-419.
7. **Khan, P. K.**, Chakraborty, S., Srivastava, V. K. and Prasad, R., 2009, Seismicity, source parameters and scaling relationships for the eastern part of Eastern Indian Shield region, *Indian Minerals*, 61, 65-74.
8. Chakraborty, P. P., and **Khan, P. K.**, 2009, Cenozoic geodynamic evolution of the Andaman-Sumatra subduction margin: a current understanding, *Island Arc*, 18, 184-200, DOI: 10.1111/j.1440-1738.2008.00641.x.
9. **Khan, P. K.**, and Chakraborty, P. P., 2009, Plate geometry, plate rheology, and their relation to shallow-focus mega-thrust seismicity with special reference to 26 December 2004 Sumatra event, *Journal of Asian Earth Sciences*, 34, 480-491.
10. **Khan, P. K.**, and Chakraborty, P. P., 2007, The seismic b value and its correlation with Bouguer gravity anomaly over the Shillong plateau area: a new insight for tectonic implication, *Journal of Asian Earth Sciences*, 29, 136-147.
11. **Khan, P. K.**, 2007, Lithospheric deformation under pre- and post-seismic stress fields along the Nicobar-Sumatra subduction margin during 2004 Sumatra mega-event and its tectonic implications, *Gondwana Research*, 12, 468-475.
12. **Khan, P. K.** and Chakraborty, P. P., 2005, Two-phase opening of Andaman Sea: A new seismotectonic insight, *Earth and Planetary Science Letters*, 229, 259-271.
13. **Khan, P. K.**, 2005, Variation in dip-angle of the Indian plate subducting beneath the Burma plate and its tectonic implications, *International Geosciences Journal*, 9, 227-234.
14. **Khan, P. K.**, 2005, Mapping of b-value beneath the Shillong plateau, *Gondwana Research*, 8, 271-276.
15. **Khan, P. K.**, 2004, Recent seismicity trend in India and adjoining regions, *Journal of the Indian Society of Earthquake Technology*, 10 – 14.

16. **Khan, P. K.**, 2003, Stress state, seismicity and subduction geometry of the descending lithosphere below the Hindukush and Pamir, *Gondwana Research*, 6, 867-877.
17. Wason, H. R., Sharma, M. L., **Khan, P. K.**, Kapoor, K., Nandini, D. and Kara, V., 2002, Analysis of aftershocks of the Chamoli Earthquake of March 29, 1999 using broadband seismic data, *Journal of Himalayan Geology*, 23, 7-18.
18. Wason, H. R., Goel, O. P., Tripathi, H. B., **Khan, P. K.**, Paul, A., and Kapoor, K., 2002, Analysis of Aftershock Events of the Chamoli Earthquake Recorded by Kumaun Digital Telemetry Seismic Network, *Journal of Himalayan Geology*, 23, 19-23.
19. **Khan, P. K.**, 2002, Compiled tectonic map of India and its adjoining regions, Newsletter, Indian Geological Congress, 8, 50-51.
20. Wason, H. R. and **Khan, P. K.**, 2001, Seismotectonics of the Garhwal-Kumaun Himalaya region based on local observations and teleseismic data, *in* O. P. Verma (ed.), *Seismicity*, Spl. Pub., DST, New Delhi, 2, 75-84.
21. Chouhan, R. K. S. and **Khan, P. K.**, 1999, Focal mechanism solution and stress pattern in Hindukush region, *in* A. K. Jain and R. M. Manickavasagam (eds.), *Geodynamics of the NW Himalaya*, Memoir, Gondwana Research, 6, 361-367.

In Symposia/Workshop/Seminar Volume

22. **Khan, P. K.**, Chakraborty, P. P. and Prabhat Kumar, 2010, Long-term concentrated deformation of the subducting oceanic lithosphere in Sumatra margin: tectonic implications, Seminar on Earthquake Engineering (14SEE), organized by the Department of Earthquake Engineering, IIT Roorkee, Roorkee, Uttarakhand (accepted).
23. **Khan, P. K.**, Mohanty, M. and Kumar, S., 2010, Present seismotectonic status of the Central Himalaya, Seminar on Earthquake Engineering (14SEE), organized by the Department of Earthquake Engineering, IIT Roorkee, Roorkee, Uttarakhand (accepted).
24. **Khan, P. K.**, 2009, 2004, Off Sumatra mega-thrust earthquake ($M_w > 9.0$) along Burma-Andaman-Sumatra subduction margin: tectonic implications, *in* Proceeding volume on Climate change and role of geo-scientific community to counter its impacts, organized by Indian Geological Congress, National Geophysical Research Institute, Hyderabad, p. 63.
25. **Khan, P. K.**, Mukherjee, G., Chakraborty, P. P. and Srivastava, V. K., 2008, 2004 Off Sumatra mega-event in the backdrop of preseismic stress field variation along the Burma-Andaman-Sumatra subduction margin, *in* Seminar on Indo-Mayanmar Ranges in the tectonic framework of the Himalaya and Southeast Asia, organized by the Department of Earth Sciences, Manipur University, Canchipur, Imphal, p. 25.
26. **Khan, P. K.**, Ghosh, M. and Srivastava, V. K., 2008, Seismic a -value and the spatial stress-level variation in Northeast India, *in* IGU Seminar on Seismic hazard and crustal earthquakes: Indian scenario, organized jointly by Department of Geophysics, Banaras Hindu University, Varanasi and National Geophysical Research Institute, Hyderabad, p. 27.
27. **Khan, P. K.** 2008, Strength of the oceanic lithosphere and the generation of mega-thrust earthquake $M_w > 9.0$, *in* Indo-UK Frontiers of Science Symposium, organized by Indian

National Science Academy, New Delhi and The Royal Society, London, Hyderabad, India (abstract no. 6).

28. Chatterjee, R., Srivastava, V. K. and **Khan, P. K.**, 2007, Finite element stress modeling of rock block: a preliminary approach, *in* Proceedings, 2nd Indian Mineral Congress, Singh, S.K. and Sinha, A. (eds.), **Symposium on Sustainable development to meet socio-economic expectation**, ISM, Dhanbad, 184-196.
29. **Khan, P. K.**, 2007, The 26 December 2004, Mw > 9.0 off Sumatra mega-thrust earthquake: A new seismo-kinetic insight, *in* National Seminar on Modern Trends in Geophysical Sciences and Techniques, Department of Applied Geophysics, Indian School of Mines, Dhanbad, 78-81.
30. **Khan, P. K.**, 2005, The 26th December' 2004 off Sumatra mega-thrust event: state of static and dynamic stress fields, and its tectonic implications, *in* Volume I, H.R. Wason and D. Shankar (eds.), **Symposium on Seismic Hazard Analysis and Microzonation**, IIT Roorkee, India, 443-465.
31. **Khan, P.K.**, 2005, A note on Sumatra earthquake of December 26, 2004 and its aftershocks: clues from geodynamics aspects, *in* National Seminar on Recent Advances in Theoretical and Applied Seismology, Department of Mathematics, Indian School of Mines, Dhanbad, p. 25.
32. **Khan, P.K.** and Chakraborty, P.P., 2005, How far interplate coupling is responsible for large thrust earthquakes along subduction margin? *in* National Seminar on East Crust, Department of Applied Geophysics, Indian School of Mines, Dhanbad, p. 25.
33. **Khan, P. K.**, 2003, Study of the occurrence of two recent damaging earthquakes and their aftershocks in the Central Himalaya, *in* National Symposium on Developments in Geophysical Sciences in India, BHU, Varanasi, 114-116.
34. **Khan, P. K.**, 2003, Episodic development of the Andaman-Nicobar and downgoing Indian plate: Implications for coupling inhomogeneity along this margin, *in* SAP (UGC) Seminar on Advances in Theoretical and Applied Seismology, ISM, Dhanbad, 16-17.
35. **Khan, P. K.**, Chouhan, R. K. S. and Bhattacharya, S. N., 2001, Generalised stress pattern and neotectonic activity in Myanmar-Andaman-Nicobar region, *in* International Conference on Seismic Hazard with particular reference to Bhuj Earthquake of January 26, 2001, IMD, New Delhi, 370-376.
36. Wason, H. R., Sharma, M. L., **Khan, P. K.**, Kapoor, K., Nandini, D. and Kara, V., 2000, Broadband Seismic Recording of the Chamoli Earthquake of March 29, 1999 and its Aftershock sequence, *in* A Report on Chamoli Earthquake of March 29, 1999, Department of Earthquake Engineering, University of Roorkee, India, 45-61.
37. Chouhan, R. K. S. and **Khan, P. K.**, 1997, Seismotectonic study of Killari-an intraplate earthquake, GARC Bull., 5, 1-17.
38. **Khan, P. K.** and Chouhan, R. K. S., 1994, Latur earthquake – a probable cause, *in* National Symposium on Mantle dynamics and its relation to earthquake and volcanism, S.N. Bose National Centre for Basic Sciences, Calcutta, p. 41.