

## REFERENCES

- Abrahams, A.D. (1984). Channel networks: A geomorphological perspective, *Water Resources Research*, v. 20, pp. 161-168.
- Acharya, A. (2005). Active Tectonics, Tsunami and Paleoseismic Studies in Indian Context. *Glimpses of Geoscience Research in India*. pp. 119-128.
- Aki, K. (1965). Maximum likelihood estimate of  $b$  in the formula  $\log N = a + bM$  and its confidence limits-. *Bull Earthq Res Inst Tokyo Univ*. v. 43, pp. 237-239.
- Al-Amri, A.M.S., Punsalan, B.T. and Uy E.A. (1998). Spatial distribution of the seismicity parameters in the Red Sea regions, *J. Asian Earth Sci.*, v. 6, pp. 557-563.
- Alastair McClymont., Rita Streich., Björn Heincke and Alan Green (2006). Visualization of active faulting using 3-D GPR data recorded across the Alpine Fault, New Zealand. 11th International Conference on Ground Penetrating Radar, June 19-22, Columbus Ohio, USA.
- Allen, R., Carter A., Najman, Y., Bandopadhyay, PC., Chapman, HJ., Bickle, MJ., Garzanti, E., Vezzoli, G., Andò, S., Foster, GL. and Gerring, C., (2007). New constraints on the sedimentation and uplift history of the Andaman-Nicobar accretionary prism, South Andaman Island. In: Draut A, Clift PD, Scholl DW (eds) *Formation and applications of the sedimentary record in arc collision zones*. *Geol Soc Am Spec Pap*, v.436, pp.223–254.
- Alper Gürbüz and Ömer Feyzi Güner (2008). Tectonic Geomorphology of the North Anatolian Fault Zone in the Lake Sapanca Basin (Eastern Marmara Region, Turkey). *Geosciences Journal*, v. 12 (3) pp. 215-225. DOI 10.1007/s12303-008-0022-9.
- Andrea, M. Figueroa and Jeffrey R. Knott (2010). Tectonic geomorphology of the southern Sierra Nevada Mountains (California): Evidence for uplift and basin formation. *Geomorphology*. v. 23, pp. 34–45.
- Anon, (1999). *Ground Penetrating Radar: Survey Design*. Sensors & Software Inc., Mississauga, Ont., Canada, pp. 18.
- Arlegui, L. E. and Soriano, M. A. (1998). Characterizing Lineaments from Satellite Images and Field Studies in the Central Ebro Basin (NE Spain). *International Journal of Remote Sensing*, v. 19 (16), pp. 3169-3185.
- Aron, J. Meltzner., Bambang W. Suwargadi., Richard W. Briggs., Kerry Sieh., Hong-Wei Chiang., Danny H. Natawidjaja., John Galetzka, Chuan-Chou Shen, and Belle E.

- Philibosian. (2010). Journal of Geophysical Research, v. 115, pp. B10402, doi:10.1029/2010JB007499.
- Aron, J. Meltzner., Kenneth W., Hudnut, Kerry Sieh., Michael Abrams., Jean-Philippe Avouac., Duncan C. Agnew. and Danny H. Natawidjaja (2006). Uplift and subsidence associated with the great Aceh-Andaman earthquake of 2004. Journal of Geophysical Research, v. 111, pp. B02407, doi:10.1029/2005JB003891.
- Ayten Koc. (2005). Remote Sensing Study of Surgu Fault Zone, (Malatya, Turkey). Master of Science thesis in Geodetic and Geographical Information Technologies., pp. 1-108.
- Azor, A., Keller, E.A. and Yeats, R.S. (2002). Geomorphic indicators of active fold growth: Oak Ridge anticline, Ventura basin, southern California. GSA Bulletin, v. 114, pp. 745-753.
- Bakliwal, PC. (1978). Tectonic interpretation from lineament analysis using photogeophysical techniques of Ranthambur fort areas, Rajasthan, India. Third regional conference on Geology and mineral resource of Southeast Asia. pp 129-131.
- Balaji, S. (2010). A palaeostress analysis of Precambrian Granulite Terrain of Northern Tamil Nadu, Peninsular India-A Remote Sensing Study. Asian Journal of Geoinformatics, v.10, pp. 23-30
- Balaji, S. and Ramasamy, SM. (1993). Aid of remote sensing in mapping geofractures of environmental significance in Tamil Nadu. Jour Ind Soc Rem Sen, v. 21, pp. 109-118.
- Ball, V. (1870). Notes on the geology of the vicinity of Port Blair, Andaman Islands. Journal Asiatic Society of Bengal, v. 39, pp. 231-239.
- Banerjee, P., Pollitz, F., Nagarajan, B., and Burgmann, R. (2007). Coseismic Slip Distributions of the 26 December 2004 Sumatra Andaman and 28 March 2005 Nias Earthquakes from GPS Static Offsets, Bull. Seis. Soc. Am, v. 97, pp. S86-S102.
- Banerjee, P., Pollitz, F.F. and Burgmann, R. (2005). The size and duration of the Sumatra-Andaman earthquakes from far-field static offsets, Science, v. 308, pp. 1769-1772.
- Baker, V. R. (1986a). Introduction: Regional Landforms Analysis. In Geomorphology from Space: A global overview of regional landforms. Nicholas M. Short, Sr. and Robert W. Blair, Jr. (Editors). Washington, D.C.: National Aeronautics and Space Administration (NASA), pp. 1-26.
- Bayrak, Y. Yilmaztürk, A. and Öztürk, S. (2002). "Lateral variations of the modal ( a / b ) values for the different regions of the world," Journal of Geodynamics, v. 34 , pp. 653.

- Beck, M.E. (1991). Coastwise transport reconsidered: lateral displacements in oblique subduction zones and tectonic consequences. *Physics of the Earth Planetary Interiors*, v. 68, pp. 1–8.
- Beres, MJ. and Haeni FP. (1991). Application of Ground-Penetrating-Radar Methods in Hydrogeologic Studies. *GROUND WATER*, v. 29, pp. 375-386.
- Bilham, R. (2004). Earthquakes in India and the Himalaya: Tectonics, geodesy and history; *Ann. Geophys*, v. 47, pp. 839–858.
- Bilham, R., Engdahl, E.R., Feldl, N. and Satyabala, S. P. (2005). Partial and Complete Rupture of the Indo-Andaman plate boundary 1847-2004: *Seismological Research Letters*, v. 76, pp.299-311.
- Bock, Y., Prawirodirdjo, L., Genrich, J.F., Stevens, C., McCaffrey, R., Subarya, C., Puntodewo, S.S.O. and Calais, E. (2003). Crustal motion in Indonesia from GPS measurements, *J. Geophys. Res.*, v.108, pp. 2367, doi:10.1029/2001JB000324.
- Brockmann, CE, Fernandez A, Ballon R, and Claire H (1977) Analysis of geological structures based on Landsat 1 images.
- Bull, W. B. (1968). Alluvial Fans. *Journal of Geological Education*, v. 16 (3), pp. 101-111.
- Bull, W. B. (1977a). The alluvial-fan environment. *Progress in Physical Geography*, v. 1 (2), pp. 222-270.
- Bull, W. B. (1977b). Tectonic geomorphology of the Mojave Desert. U. S. Geological Survey Contract Report 14-08-0001-G-394; Office of Earthquakes, Volcanoes, and Engineering, Menlo Park, California, pp. 188.
- Bull, W. B. (1978). Geomorphic tectonic activity classes of the south front of the San Gabriel Mountains, California. U. S. Geological Survey Contract Report 14-08-001G-394; Office of Earthquakes, Volcanoes,
- Bull, W. B. (1984). Tectonic geomorphology. *Journal of Geological Education*, v. 32, pp. 310-324.
- Bull, W. B., and L. D. McFadden. (1977). “Tectonic geomorphology north and south of the Garlock fault, California”. *Geomorphology in Arid Regions. Proceedings of the Eight Annual Geomorphology Symposium* (Ed. D. O. Doehring). Binghamton, NY: State University of New York at Binghamton, pp. 115-138.
- Bull, W.B. (2007). *Tectonic Geomorphology of Mountains: A New Approach to Paleoseismology*. Wiley-Blackwell, Oxford, pp. 328.

- Burbank, D.W., and Anderson, R.S., (2001). Tectonic Geomorphology. Blackwell Science. pp. 137.
- Byrne, D. E., Sykes, L. R. and Davis, D. M. (1992). Great thrust earthquakes and aseismic slip along the plate boundary of the Makran subduction zone, *J. Geophys. Res.*, v. 97(B1), pp. 449–478.
- Caneva, A. and Smirnov V. (2004). Using the Fractal Dimension of Earthquake Distributions and Slope of the Recurrence Curve to Forecast Earthquakes in Colombia-. *Earth Sci Res J.*, v. 8 (1), pp. 3-9.
- Cannon, P. J. (1976). ‘Generation of explicit parameters for a quantitative geomorphic study of the Mill Creek drainage basin’, *Oklahoma Geology Notes*, v. 36(1), pp.3–16.
- Chakraborty, P.P., and Khan, K.P. (2009). Cenozoic geodynamic evolution of the Andaman-Sumatra subduction margin: Current understanding. *Island arc*, v. 18. pp. 184-200.
- Champel, B., van der, B.P., Mugnier, J.L. and Leturmy, P. (2002). Growth and lateral propagation of fault-related folds in the Siwaliks of western Nepal: Rates, mechanisms, and geomorphic signature. *Journal of Geophysical Research*, v. 107 (2111), pp. 2-1–2-18.
- Chandra, U. (1984). Tectonic segmentation of the Burmese Indonesian arc. *Tectonophysics*, v. 105, pp.279–289.
- Chatterji, A.K. (1964) The Tertiary fauna of Andaman. *proc. 22nd, Int. Geol. Cong.*, New Delhi, section 8, PP.303-318.
- Chlieh, M., et al. (2007), Coseismic slip and afterslip of the great Mw 9.15 Sumatra-Andaman earthquake of 2004, *Bull. Seismol. Soc. Am.*, v. 97(1A), pp. S152–S173, doi:10.1785/0120050631.
- Chow, J. Angelier, J. Hua, J.J. Lee, J.C. and Sun, R. (2001). Paleoseismic event and active faulting: from ground penetrating radar and high-resolution seismic reflection profile across the Chihshang Fault, eastern Taiwan. *Tectonophysics*, v. 333, pp. 241-259.
- Christie, M. Tsoflias, G.P. Stockli, D.F. and Black R. (2008). Assessing fault displacement and off-fault deformation in an extensional tectonic setting using 3-D ground-penetrating radar imaging. *Journal of Applied Geophysics*.
- Chutha, P. and Doodge, J.C.I. (1990). The shape parameters of the geomorphic unit hydrograph, *Journal of Hydrology*, v. 117, pp. 81-97.
- Clark, C. D. and Wilson, C. (1994). Spatial analysis of lineaments. *Computers and Geosciences*, v. 20, pp. 1237-1258.

- Cox, R. T., Van Arsdale, R. B. and Harris, J. B. (2001). Identification of possible Quaternary deformation of the northeastern Mississippi embayment using quantitative geomorphic analysis of drainage-basin asymmetry. *Geological Society of America Bulletin*, v. 113 (5), pp. 615-624.
- Cox, R.T. (1994). Analysis of drainage-basin symmetry as a rapid technique to identify areas of possible Quaternary tilt-block tectonics: an example from the Mississippi Embayment. *Geological Society of America Bulletin*, v. 106, pp. 571-581.
- Curry, J. R., Emmel, F. J., Moore, D. G. and Raitt, R. W. (1982). Structure, tectonics and geological history of the northeastern Indian Ocean. In: Nairn, A.E.M., Stehli, F.G. (Eds.). *The Ocean Basins and Margins. The Indian Ocean*, 6. Plenum Press, New York, pp. 399–450.
- Curry, J.R. (2005). Tectonics and history of the Andaman Sea region, *J. Asian Earth Sci.*, v. 25, pp. 187–232.
- Curry, J.R., Moore, D.G., Lawver, L.A., Emmel, F.J., Raitt, R.W., Henry, M. and Kicckhefer, R. (1977). Tectonics of the Andaman Sea and Burma. In: J.Walkins, L. Moutadert. And P.W.Dickerson (eds), *Geological and Geophysical Investigations of Continental Margins*, Amer.Assoc. Petrol. Geol. Mem., v. 29, pp. 189-198.
- Curry, J.R., Moore, D.G., Lawver, L.A., Emmel, F.J., Raitt, R.W., Henry, M. and Kicckhefer, R. (1979). Tectonics of the Andaman Sea and Burma. In: J.Walkins, L. Moutadert. And P.W.Dickerson (eds), *Geological and Geophysical Investigations of Continental Margins*, Amer.Assoc. Petrol. Geol. Mem., v. 29, pp. 189-19.
- Danny, Hilman Natawidjaja. (2002). Neotectonics of the Sumatran Fault and Paleogeodesy of the Sumatran Subduction Zone. Ph.D. thesis, California Institute of Technology Pasadena, California, pp. 1-289.
- Dasgupta, S., Mukhopadhyay, M., Bhattacharya, A. and Jana, T K. (2003). The geometry of the Burmese–Andaman subducting lithosphere; *J. Seismol.*, v.7, pp. 155–174.
- Dasgupta, S. and Mukhopadhyay, M. (1997). Aseismicity of the Andaman subduction zone and recent volcanism; *J. Geol. Soc. India*, v. 49, pp. 513–521.
- Dasgupta, S. and Nandy, D.R. (1995). Geological framework of Indo-Burmese convergent margin with special reference to Ophiolite emplacement. *Indian Jour. Geol.*, v. 67, pp. 110-125.
- Dasgupta, S., Mukhopadhyay, B. and Acharyya, A. (2005). Aftershock propagation characteristics during the first three hours following the 26 December 2004 Sumatra- Andaman earthquake: *Gondwana Research*, v. 8, pp. 585-588.

- Dasgupta, S., Mukhopadhyay, M. (1993). Seismicity and plate deformation below the Andaman arc, northeastern Indian Ocean. *Tectonophysics*, v. 225, pp. 529–542.
- Davis, W.M (1899). The geographical cycle. *Geographical Journal*, v. 14, pp. 481–504.
- Davis, J.L. and Annan, A.P. (1989). Ground penetrating radar for high-resolution mapping of soil and rock stratigraphy. *Geophysical Prospecting*, v. 37, pp. 531–551.
- Delcaillau, B., Deffontaines, B., Floissac, L., Angelier, J., Deramond, J., Souquet, P., Chu, H.T. and Lee, J.F. (1998). Morphotectonic evidence from lateral propagation of active frontal fold; Pakuashan anticline, foothills of Taiwan. *Geomorphology*, v. 24, pp. 263–290.
- DeMets, C., Gordon, R. G., Argus, D. F., and Stein, S. (1994). Effect of recent revisions to the geomagnetic reversal time scale on estimate of current plate motions, *Geophys. Res. Lett.*, v. 21, pp. 2191–2194.
- DeMets, C., Gordon, R.G., Argus, D.F., Stein, S. (1990). Current plate motions. *Geophysical Journal International*. V. 101 (2), pp. 425–478.
- Dewey, J.F., Holdsworth, R.E. and Strachan, R.A., (1998). Transpression and transtension zones. In: Holdsworth, R.E., Strachan, R.A., Dewey, J.F. (Eds.), *Continental Transpressional and Transtensional Tectonics*. Special publication of the Geological Society, London, v. 135, pp. 1–14.
- Diehl, T. Schaff, D., Waldhauser, F., Engdahl, E. R., Cochran, J. R., Kamesh Raju, K. A., and Seeber, L. (2013). Back-arc extension in the Andaman Sea: Tectonic and magmatic processes imaged by high-precision teleseismic double-difference earthquake relocation. *Journal of Geophysical Research: Solid Earth*, v. 118, pp. 1–19, doi:10.1002/jgrb.50192.
- Drury, S. A. (1987). *Image interpretation in Geology* (London: Allen and Unwin).
- Drury, S.A., Harrison, N.B.W., Holt, R.W., Reeves Smith, G.J. and Wingtman, R.T. (1984). Precambrian tectonic and crustal evolution in South India. *Jour, GEol.*, v. 92, pp. 3–20.
- Earnest, A., Rajendran, C .P. Rajendran, K., Anu, R., Arun, G. M. and Mohan, P. M. (2005). Near-field observations on the co-seismic deformation associated with the 26 December 2004 Andaman-Sumatra earthquake, *Curr. Sci.*, v. 89, pp. 1237– 1244.
- Easterbrook, D. J. (1999). *Surface processes and landforms*. 2nd edition. New Jersey: Prentice Hall.
- Eguchi, T., Uyeda, S., and Maki, T. (1979). Seismotectonics and tectonic history of Andaman Sea, *Tectonophysics.*, v. 57, pp. 35–51.

- El Hamdouni, R., Irigaray, C., Fernandez, T., Chacon, J. and Keller, E.A. (2008). Assessment of relative active tectonics, southwest border of Sierra Nevada (Southern Spain). *Geomorphology*, v. 96, pp. 150-173.
- Emad A. M. AL- Heety (2011). Variation of b – Value In The Earthquake Frequency – Magnitude Distribution With Depth In The Intraplate Regions. *International Journal of Basic & Applied Sciences IJBAS-IJENS*, v. 11 (6), pp. 29-37.
- Fitch T. (1972). Plate convergence, transcurrent faults and internal deformation adjacent to Southeast Asia and western Pacific. *Journal of Geophysical Research*, v. 77, pp. 4432–60.
- Fitch, T. J. (1970). Earthquake mechanisms in the Himalaya, Burmese, and Andaman regions and continental tectonics in Central Asia, *J. Geophys. Res.*, v.75, pp. 2699–2709.
- Franck, A., Audemard, Jean-Claude Bousquet. and Jose´ A. Rodri´guez. (1999). Neotectonic and paleoseismicity studies on the Urumaco Fault, northern Falco´n Basin, northwestern Venezuela. *Tectonophysics*, v. 308, pp. 23–35.
- Friend, P.F., Jones, N.E. and Vincent, S.J. (1999). Drainage evolution in active mountain belts: extrapolation backwards from present-day Himalayan river patterns. *Special Publication International Association of Sedimentologist*, v.28, pp. 305–313.
- Frolich, C. and Davis, S. (1993). Teleseismic b-values: or much ado about 1.0. *J. Geophys. Res.*, v. 98, pp. 631–644.
- Gahalaut, V.K. (2006) 2005 Kashmir earthquake: not a Kashmir Himalaya seismic gap event. *Curr.Sc.*, v.90 (4), pp.507-508.
- Gahalaut, V. K., Nagarajan,B., Catherine,J. K. and Kumar, S. (2006). Constraints on 2004 Sumatra–Andaman earthquake rupture from GPS measurements in Andaman–Nicobar Islands, *Earth Planet. Sci. Lett.*, v. 242, pp. 365–374, doi:10.1016/j.epsl.2005.11.051.
- Ganas, A., Pavlides, S. and Karastathis, V. (2005). DEM-based morphometry of range-front escarpments in Attica, central Greece, and its relation to fault slip rates, *Geomorphology*, v. 65, pp. 301-319.
- Gee,E.R.(1927) The Geology of the Andaman and Nicobar Islands with special reference to Middle Andaman. *Rec. Geol.Surv.India*, v.59 (2), pp.208-232.
- Ghosh, D., Mishra, O.P. (2008). The 2004 Sumatra–Andaman earthquake sequence and its implications for seismic coupling: future vulnerability. *Indian Minerals*, v. 61(3–4) and 62(1–4), pp. 93–112.

- Gold, D.P. (1980). Structural Geology. In: B.S. Siegel and A.R. Gillespie (eds.). Remote Sensing in Geology. John Wiley & Co., Toronto, pp. 447-453.
- Grohmann, C.H., Riccomini, C. and Alves, F.M. (2007). SRTM-based morphotectonic analysis of the Poc-os de Caldas Alkaline Massif, southeastern Brazil, Computers & Geosciences, v. 33 (1), pp. 10-19.
- Grygar, R. and Jelinek, J. (2003). Upper Morava and Nysa Pull-apart Grabens: Implication for Neotectonic Dextral Transtension on Sudetic Faults System, Geolines, v. 16, pp. 35-36.
- GSSI (2008) RADAN Software User's Manual. Geophysical Survey Systems, Inc., Salem, New Hampshire, pp. 139.
- Gupta, S. (1997). Himalayan drainage patterns and the origin of fluvial megafans in the Ganges foreland basin. Geology, v. 25, pp. 11-14.
- Gutenberg, B. and Richter, C.F. (1944). Frequency of earthquakes in California, Bull. Seismol. Soc. Am., v. 34, pp. 185-188.
- Halder, D. (1985). Some aspects of the Andaman Ophiolite Complex: Geological Survey of India, v.5, pp. 1-11.
- Hamilton, W. (1979) Tectonics of the Indonesian Region. U. S. Geological Survey Professional Paper, v. 1078, pp.345.
- Hare, P.H. and Gardner, T.W. (1985). Geomorphic indicators of vertical neotectonism along converging plate margins, Nicoya Peninsula, Costa Rica. In: Morisawa, M., Hack, J.T. (Eds.), Tectonic Geomorphology. Allen and Unwin, Boston, pp. 75-104.
- Hatam Quanbari and Soad Pelark (2015). Active Tectonics Analysis in Jahan Abad-Abadeh Tashk Basin (Zagros Fold and Thrust Belt) By Morphotectonics Indices. International Journal of Engineering Sciences & Research Technology. v. 4 (8). pp. 48-53.
- Hatzidimitriou, P.M., Papadimitriou, E.E., Mountrakis, D.M. and Papazachos, B.C. (1985). The seismic parameter b of the frequency-magnitude relation and its association with the geological zones in the area of Greece, Tectonophysics, v. 120, pp. 141-151.
- Hayden, R. S. (1986). Geomorphological Mapping. In Geomorphology from Space: A global overview of regional landforms. Nicholas M. Short, Sr. and Robert W. Blair, Jr. (Editors). Washington, DC: National Aeronautics and Space Administration (NASA). pp. 637-656.



- Herfried, Madritsch. (2008). Structural Evolution and Neotectonics of the Rhine-Bresse Transfer Zone. Ph.D. Thesis, pp. 1-192.
- Hirata, T. (1989). Correlation between the b-value and the fractal dimension of earthquakes-. J Geophys Res, v. 94, pp. 7507-7514.
- Hitchcock, C.S. and Kelson, K.I. (1999). Growth of late Quaternary folds in southwest Santa Clara Valley, San Francisco Bay area, California: Implication of triggered slip for seismic hazard and earthquake recurrence. Geology, v. 27, pp. 391–394.
- Hochstetter, F. (1869) Geology and physical geography of Nicobar Islands. Records Geological Survey of India 2 (Pt 3).
- Horton, R.E. (1945). Erosional development of streams and their drainage basins: Hydrophysical approach to quantitative morphology, Geological Society of America Bulletin, v. 56, pp. 275-370.
- Huchon, P. and Le Pichon, X. (1984). Sunda straits and Central Sumatra Fault, Geology, v.12, pp. 668-672.
- Ioannis, M. Tsodoulos., Ioannis K. Koukouvelas. and Spyros Pavlides. (2008). Tectonic Geomorphology of the easternmost extension of the Gulf of Corinth (Beotia, Central Greece). Tectonophysics, v. 453 (1–4), pp. 211–232.
- Ishii, M., Shearer, P.M., Houston, H. and Vidale, J.E. (2005). Extent, duration and speed of the 2004 Sumatra–Andaman earthquake imaged by Hi-Net array, Nature, v. 435, pp. 933–936.
- Imoto, M. (1991). Changes in the magnitude-frequency b-value prior to large ( $M > 6$ ) earthquakes in Japan, Tectonophysics, v. 193, pp- 311-325.
- Ishimoto, M. and Iida, K. (1939). Observations sur les seismes enregistres par le microsismographe construit dernièrement (1). Bull. Earthquake Res. Inst.,
- Jackson, J., Norris, R. and Youngson, J. (1996). The structural evolution of active fault and fold system in central Otago, New Zealand evidence revealed by drainage patterns. Journal of Structural Geology, v. 18, pp. 217-234.
- James R. Cochran (2010). Morphology and tectonics of the Andaman Forearc, northeastern Indian Ocean. Geophys. J. Int. v. 182, pp. 631–651.
- Jamie Farrell, Stephan Husen, and Robert B. Smith (2009). Earthquake swarm and b-value characterization of the Yellowstone volcano-tectonic system. Journal of Volcanology and Geothermal Research, v. 188, pp. 260–276.

- Javed N. Malik., Sahoo A. K and Shah A. A. (2007). Ground-penetrating radar investigation along Pinjore Garden Fault: Implication toward identification of shallow subsurface deformation along active fault, NW Himalaya. *Current Science*, v. 93 (10), pp. 1422-1427.
- Jones, R.R., Holdsworth, R.E., Clegg, P., McCaffrey, K. and Tavarnelli, E. (2004). Inclined transpression. *Journal of Structural Geology*, v. 26 (8), pp. 1531–1548.
- Jordan, G., Meijninger, B.M.L., van Hinsbergen, D.J.J., Meulenkamp, J.E. and van Dijk, P.M. (2005). Extraction of morphotectonic features from DEMs: Development and application for study areas in Hungary and Greece, *International Journal of Applied Earth Observation and Geoinformation*, v.7, pp. 163–182.
- Kamesh Raju, K.A. (2005). Three-phase tectonic evolution of the Andaman back arc basin. *Curr. Sci.*, v. 89 (11). pp. 1932-1937.
- Kamesh Raju, K.A., Murty, G.P.S., Amarnath, D. and Mohan Kumar, M.L. (2007). The West Andaman fault and its influence on the aftershock pattern of the recent megathrust earthquakes in the Andaman-Sumatra region, *Geophys. Res. Lett.*, v. 34, pp. L03305, doi:10.1029/2006GL028730.
- Kamesh Raju, K.A., Ramprasad, T. Rao., P.S., Rao, B.R. and Varghese, J. (2004). New insights into the tectonic evolution of the Andaman basin, northeast Indian Ocean, *Earth planet. Sci. Lett.*, v. 221, pp. 145–162.
- Kanamori, H. and McNally, K. C. (1982). Variable rupture mode of the subduction zone along the Ecuador-Colombia Coast, *Bull. Seism. Soc. Am.*, v. 72, pp. 1241–1253.
- Karunakaran, C., Ray, K.K., and Saha, S.S., (1968) Tertiary sedimentation in Andaman-Nicobar geosynclines. *Journal of the Geological Society of India*, v. 9, pp.32-39.
- Kayal, J. R., Gaonkar, S. G., Chakraborty, G. K. and Singh, O. P. (2004). Aftershocks and seismotectonic implications of the 13 September 2002 earthquake Mw 6.5 in the Andaman Sea basin, *Bull. Seismol. Soc. Am.*, v. 94 (1), pp. 326–333.
- Keller, E.A., Gurrola, L. and Tierney, T.E. (1999). Geomorphic criteria to determine direction of lateral propagation of reverse faulting and folding. *Geology*, v. 27, pp. 515-518.
- Keller, E. A. and Pinter, N. (2002). *Active Tectonics: Earthquakes, Uplift, and Landscape*. 2nd edition. New Jersey: Prentice Hall. Sujit Dasgupta, Basab Mukhopadhyay and Auditeya Bhattacharya (2007). Seismicity pattern in north Sumatra–Great Nicobar region: In search of precursor for the 26 December 2004 earthquake. *J. Earth Syst. Sci.*, v. 116 (3), pp. 215–223.

- Keller, E.A. (1986). Investigation of active tectonics: use of surficial earth processes. In: Wallace, R.E. (Ed.), *Active Tectonics, Studies in Geophysics*. National Academy Press, Washington, DC, pp. 136-147.
- Kervyn, F., Ayub, S., Kajara, R., Kanza, E. and Temu, B. (2006). Evidence of recent faulting in the Rukwa rift (West Tanzania) based on radar interferometric DEMs, *Journal of African Earth Sciences*, v. 44, pp. 151–168.
- Khan P. K. and Chakraborty P. P. (2005). Two-phase opening of Andaman Sea: A new seismotectonic insight. *Earth and Planetary Science Letters*, v. 229, pp. 259–71.
- Kocal, A. Duzgun H. S. and Karpuz C. (2004). Discontinuity Mapping With Automatic Lineament Extraction from High Resolution Satellite Imagery. XXth ISPRS Congress, Istanbul.
- Krishna, K.S., Gopala Rao, D., Ramana, M.V., Subrahmanyam, V., Sarma, K., Pilipenko, A.I., Shcherbekov, V.S. And Radhakrishna Murthy, I.V. (1995). Tectonic model for the evolution of the oceanic crust in the northeastern Indian Ocean from the Late Cretaceous to the early Tertiary. *Jour. Geophys. Res.*, v.100, pp.20011-20024.
- Lay, T., Kanamori, H., Ammon, C.J., Nettles, M., Ward, S.N., Aster, R.C., Beck, S.L., Bilek, S.L., Brudzinski, M.R., Buttlar, R. DeShon, H.R., Ekstrom, G., Satake, K. and Sipkin, S. (2005). The great Sumatra-Andaman earthquake of 26 December 2004, *Science*, v. 308, pp. 1127–1133.
- Lillesand, M. and Kiefer, R. W. (1999). *Remote Sensing and Image Interpretation*, 4th edition, John Wiley and Sons, Inc., U.S. A.
- Luo, W. (2002). Hypsometric analysis of Margaritifer Sinus and origin of valley networks. *Journal of Geophysical Research. Planets*, v. 107 (E10), pp. 5071.
- Luo, W. and Howard, A. D. (2005). Morphometric analysis of Martian valley network basins using a circularity function. *Journal of Geophysical Research. Planets*, v. 110, pp. (E12S13).
- Malik, J. N. and Mohanty, C. (2007). Active tectonic influence on the evolution of drainage and landscape: geomorphic signatures from frontal and hinterland areas along Northwestern Himalaya, India. *J. Asian Earth Sci.*, v. 29 (5–6), pp. 604–618.
- Malik, J. N. and Nakata, T. (2003). Active faults and related Late Quaternary deformation along the Northwestern Himalayan Frontal Zone, India. *Ann. Geophys*, v. 46. pp. 917–936.
- Malik, J. N., Murty, C. V. R., and Rai, D., (2006). Landscape Changes in the Andaman and Nicobar Islands (India) after the December 2004 Great Sumatra Earthquake and Indian Ocean Tsunami. *Earthquake Spectra, EERI*, v. 22(S3), pp. S43–S66.

- Malik, J.N. and Murty, C.Y.R. (2005). Landscape changes in Andaman and Nicobar Islands (India) due to Mw 9.3 tsunamigenic Sumatra earthquake of 26 December 2004. *Current Science*, v. 88. pp. 1385-1386.
- Malik, J.N., Shishikura, M., Echigo, Y., Ikeda, K., Satake, H., Kayanne, Y., Murty, C.V.R. and Dikshit, O. (2011). Geologic evidence for two pre-2004 earthquakes during recent centuries near Port Blair, South Andaman Island, India. *Geological Society of America*, v. 39 (6). pp. 559-562.
- María Teresa Ramírez-Herrera (1998). Geomorphic Assessment of Active Tectonics in the Acambay Graben, Mexican Volcanic Belt. *Earth Surface Processes and Landforms*, v. 23, pp. 317–332.
- Marielle, Fraefel. (2008). Geomorphic response to neotectonic activity in the Jura Mountains and the southern Upper Rhine Graben. Ph.D. thesis, pp. 1-171.
- Mayer, L. (1990). *Introduction to Quantitative Geomorphology*. Prentice Hall, Englewood, Cliffs, NJ.
- McCaffrey, R. (1992). Oblique plate convergence, slip vectors, and forearc deformation, *J. Geophys. Res.*, v. 97 (B6), pp. 8905– 8915.
- McCaffrey, R. (2009). The tectonic framework of the Sumatran subduction zone, *Annu. Rev. Earth Planet .Sci.* v.37, pp. 345–366, doi:10.1146/annurev. earth.031208.100212.
- McCalpin, J. P. (1996). *Paleoseismology*, Academic Press, New York, pp. 588.
- McCalpin, J.P. (2009). *Paleoseismology*. *Int Geo Phy ser.*, v. 95, pp. 1-601.
- Meltzner, A. J. (2010). Earthquake recurrence, clustering, and persistent segmentation near the southern end of the 2004 Sunda megathrust rupture, Ph.D. thesis, Calif. Inst. of Technol., Pasadena. <http://resolver.caltech.edu/CaltechTHESIS:06012010-082222484>.
- Meltzner, A.J., Sieh, K., Abrams, M., Agnew, D.C., Hudnut, K. W., Avouac, J. P. and Natawidjaja, D. H. (2006). Uplift and subsidence associated with the great Aceh-Andaman earthquake of 2004, *Jr. Geophys. Res.*, v. 111, pp. B02407.
- Mishra, O.P., Singh, O.P., Chakraborty, G.K., Kayal, J.R. and Gosh, D. (2007). Aftershock Investigation in Andaman and Nicobar Islands: An antidote to public panic? *Seismol. Res.Lett*, v. 78 (6), pp. 591-599.
- Mogi, K. (1962). Magnitude-frequency relationship for elastic shocks accompanying fractures of various materials and some related problems in earthquakes. *Bull. Earthquake Res. Inst. Univ. Tokyo*, v. 40, pp. 831-883.

- Molnar, P. (1992). Brace-Goetze strength-profiles, the partitioning of strike-slip and thrust faulting at zones of oblique convergence, and the stress-heat flow paradox of the San Andreas fault. In: Evans, B., Wong, T.-F. (Eds.), *Fault Mechanics and Transport Properties of Rocks*. Academic Press, New York, pp. 435–459.
- Monterroso, D. and Kulhanek, O. (2003). Spatial variations of b-values in the subduction zone of Central America. *Geofisica Inter.* v. 42, pp. 1-13.
- Moore G. F., Curray J. R. and Emmel F. J. (1982). Sedimentation in the Sunda trench and forearc region. In: *Trench-Forearc Geology*. In Legget J. K. (ed.). *Tectonics on Modern and Ancient Active Plate Margins*. Geological Society, London, Special Publication, v. 10, pp. 245–58.
- Morey, RM. (1974). Detection of subsurface cavities by ground penetrating radar. *Highway Geological Symposium*, pp. 28–30.
- Morisawa, M. (1985). Development of quantitative geomorphology. *Geological Society of America, Centennial Special*, v. 1, pp. 79-107.
- Mukhopadhyay M. & Krishna M. R. (1991). Gravity field and deep structure of the Bengal fan and its surrounding continental margins, northeast Indian Ocean. *Tectonophysics*, v. 186, pp. 365–86.
- Mukhopadhyay, M (1984). Seismotectonics of subduction and backarc rifting under the Andaman Sea; *Tectonophys*, v.108, pp. 229–239.
- Mukhopadhyay, M. (1988). Gravity anomalies and deep structure of Andaman arc; *Marine Geophys. Res.*, v. 9, pp. 197–210.
- Nair, M.M. (1990). Structural Trendline Patterns and Lineaments of the Western Ghats, South of 13o Latitude. *Journal Geological Society of India*, v.35, pp. 99-105.
- Nanayama, F., Satake, K., Furukawa, R., Shimokawa, K., Atwater, B. F., Shigeno, K. and Yamaki, S. (2003). Unusually large earthquakes inferred from tsunami deposits along the Kuril trench (reprint), *Nature*, v. 424, pp. 660–663.
- Natawidjaja, D. H., Sieh, K., Ward, S. N., Cheng, H., Edwards, R. L., Galetzka, J. and Suwargadi B. W. (2004). Paleogeodetic records of seismic and aseismic subduction from central Sumatran microatolls, Indonesia, *J. Geophys. Res.*, v. 109, pp. B04306, doi:10.1029/2003JB002398.
- Ni, S., Kanamori, H. and Helmberger D. (2005). Energy radiation from the Sumatra.

- O'leary, D. W., Freidman, J. D., and Pohn, H. A. (1976). Lineament, linear, lineation: Some proposed new definitions for old terms; *Geol. Soc. Am. Bull.* v. 87, pp.1463–1469.
- Oldham, R.D. (1885). Notes on the geology of Andaman Islands: Record of the Geological Survey of India. v. 18, pp. 135–145.
- Oncel A.O. and Wilson T.H. (2007). Anomalous seismicity preceding the 1999 Izmit event, NW Turkey-. *Ggeophys J Int.* DOI: 10.1111/j.1365- 246X.2006.03298.x.
- Oncel A.O., Alptekin A. and Main I.G. (1995). Temporal variations of the fractal properties of seismicity in the western part of the North Anatolian fault zone: possible artifacts due to improvements in station coverage-. *Nonlinear Processes Geophys.*, v. 2, pp.147-157.
- Ortiz, M. and Bilham, R. (2003). Source area and rupture parameters of the 31 December 1881 Mw 7.9 Car Nicobar earthquake estimated from tsunami recorded in the Bay of Bengal, *J. Geophys. Res.* v.108 (2215), pp.1–16.
- Ota Kulhanek (2005). Seminar on b-value. Dept. of Geophysics, Charles University, Prague December, pp. 10-19.
- Paiboon Nuannin and Ota Kulhánek (2012). A Study of b-value Precursors Applied to the Andaman-Sumatra Region. *Journal of Earth Science and Engineering*, v. 2, pp. 166-188.
- Pandey, J., Agarwal, R.P., Dave, A., Maithani, A., Trivedi, K.B., Srivastava, A.K. and Singh, D.N.(1993) *Geology of Andaman.* Bull.ONGC, v.29 (2), pp.19-103.
- Parcharidis, Is., Foumelis, M. and Lekkas, E. (2007). Vertical Tectonic Motion In Andaman Islands detected by Multi-Temporal Satellite Radar Images. *Bulletin of the Geological Society of Greece. Proceedings of the 11th International Congress, Athens.*
- Patidar, A. K., Maurya, D. M., Thakkar M. G. and Chamyal L. S. (2008). Evidence of neotectonic reactivation of the Katrol Hill Fault during late Quaternary and its GPR characterization. *Current Science*, v. 94 (3), pp. 338-346.
- Patton, P.C. & Baker, V.R. (1976). Morphometry and floods in small drainage basins subject to diverse hydrogeologic controls, *Water Resources*, v. 12, pp. 941-52.
- Paul, J. Rajendran, C.P. Lowry, A.R. Andrade V. and Rajendran K. (2012). Andaman Postseismic Deformation Observations: Still Slipping After All These Years? *Bull. Seismol. Soc. Am.*, v. 102(1), pp. 343-351.

- Paul, J., Bürgmann, R., Gaur, V. K., Bilham, R., Larson, K., Ananda, M. B., Jade, S., Mukul, M., Anupama, T. S., Satyal, G. and Kumar, D. (2001). The motion and active deformation of India, *Geophys. Res. Lett.*, v. 28, pp. 647–651.
- Philip, G. and Viridi, N. S. (2007). Active faults and neotectonic activity in the Pinjaur Dun, northwestern Frontal Himalaya. *Current Science*, v. 92, (4), pp. 532-542.
- Philip, G. and Viridi, N. S. (2006). Co-existing compressional and extensional regimes along the Himalayan front vis-à-vis active faults near Singhauli, Haryana, India. *Current Science*, v. 90 (9), pp. 1267-1271.
- Pike, R. J. and Wilson, S. E. (1971). Elevation-relief ratio, hypsometric integral and geomorphic area-altitude analysis. *Geological Society of America Bulletin*, v. 82 (4), pp. 1079-1083.
- Prawirodirdjo, L., Bock, Y., Genrich, J. F., Puntodewo, S. S. O., Rais, J., Subarya, C. and Sutisna, S. (2000). One century of tectonic deformation along the Sumatran fault from triangulation and global positioning system surveys. *J. Geophys. Res. B*, v. 105, pp. 28343–28361.
- Prawirodirdjo, L., Bock, Y., McCaffrey, R., Genrich J., Calais, E., Stevens, C., Puntodewo, S.S.O., Subarya, C., Rais, J. and Zwick, P. (1997). Geodetic observations of interseismic strain segmentation at the Sumatra subduction zone, *Geophys. Res. Lett.*, v. 24 (21), pp. 2601– 2604, doi:10.1029/97GL52691.
- Qari, M. Y. H. T. (1991). Application of Landsat TM Data to Geological Studies, Al- Khabt Area, Southern Arabian Shield. *Photogrammetric Engineering and Remote Sensing*, v. 57(4), pp. 421-429.
- Radha Krishna, M. and Sanu, T.D. (2002). Shallow seismicity, stress distribution and crustal deformation pattern in the Andaman-West Sunda arc and Andaman Sea, northeastern Indian Ocean, *Journal of Seismology*, v. 6, pp. 25-41.
- Rajendran, C. P., Earnest, A., Rajendran, K., Das, R. D. and Kesavan, S. (2003). The 13 September 2002 North Andaman (Diglipur) earthquake: An analysis in the context of regional seismicity, *Curr. Sci.*, v. 84 (7), pp. 919–924.
- Rajendran, C.P., Rajendran, K., Anu, R., Earnest, A., Machado, T., Mohan, P.M. and Freymueller, J. (2007). The style of crustal deformation and seismic history associated with the 2004 Indian Ocean earthquake: a perspective from the Andaman–Nicobar Islands: *Bulletin Of the Seismological Society of America*, v. 97, pp. S174-S191.
- Rajendran, K. and Gupta, H. K. (1989). Seismicity and tectonic stress-field of a part of the Burma-Andaman arc, *Bull. Seismol. Soc. Am.*, v. 79, pp. 989–1005.

- Rajendran, K., Rajendaran, C. P. and Earnest, A. (2005). The great Sumatra-Andaman earthquake of 26 December 2004, *Curr. Sci.*, v. 88 (1), pp.11–12.
- Ramasamy, SM. and Balaji, S. (1995). Remote Sensing and Pleistocene tectonics of southern Indian Peninsula. *Internat Jour Rem Sen*, v. 16, pp. 2375-2391.
- Ravikumar, M., Rao, N.P. and Chalam, S.V. (1996). A Seismotectonic study of the Burma and Andaman arc regions using centroid moment tensor data, *Tectonophysics*, v. 253, pp.155–165.
- Ray, K.K., Sengupta, S. and Van Den Hul, H.J. (1988). Chemical characters of volcanic rocks from Andaman ophiolite, India: *Geological Society [London] Journal*, v.45, pp.392–400.
- Reddy, C. D., Prajapati, S. K., Sunil, P. S. and Arora, S. K. (2012). Transient postseismic mantle relaxation following 2004 Sumatra earthquake: implications of seismic vulnerability in the Andaman-Nicobar region. *Nat. Hazards Earth Syst. Sci.*, v. 12, pp. 431–441. doi:10.5194/nhess-12-431-2012.
- Richard, Thomas Walker. (2006). A remote sensing study of active folding and faulting in southern Kerman province, S.E. Iran. *Journal of Structural Geology*, v. 28, pp. 654–668. doi:10.1016/j.jsg.2005.12.014.
- Richetti, E. (2002). Structural Geological Study of Southern Apennine (Italy) Using Landsat 7 Imagery. *IEEE*, pp. 211-213.
- Rink, P. H. (1847). Die Nikobar Inseln. Eine Geographische Skizze, mitspecieller Beru'ksichtigung der Geognosie, Kopenhagen. Translated Selections, Records Government India LXXVII, pp. 540.
- Rockwell, T. K., Killer E. A. and Johnson, D. L. (1984). Tectonic geomorphology of alluvial fans and mountain fronts near Ventura, California. In *Tectonic Geomorphology*. Morisawa M. and Hack T. J. (Editors.). State University of New York, Binghamton. pp. 183-207.
- Rodolfo K. S. (1969). Bathymetry and marine geology of the Andaman basin, and tectonic implications for Southeast Asia. *Geological Society of America Bulletin*, v. 80, pp. 1203–30.
- Rodrique-Itrube, I. and Valdes, J.B. (1979). The geomorphologic structure of hydrologic response, *Water Resources*, v. 15, pp. 1409-20.
- Roy S., Ghosh U., Hazra S. and Kayal J.R. (2011). Fractal dimension and bvalue mapping in the Andaman-Sumatra subduction zone-. *Nat Hazards*, v.57, pp. 27-37.



- Roy, S. K. (1992). Accretionary Prism in Andaman Forearc. Geological Survey of India Special Publication, v. 29. pp. 27–38.
- Roy, T.K. (1983). Geology and hydrocarbon prospects of Andaman–Nicobar basin. In: Bhandari, L.L. (Ed.), *Petroliferous Basins of India* Petroleum Asia Journal, pp. 37–50.
- Rudersdorf, Andreas, Jochen Hürtgen, Christoph Grützner, Klaus Reicherter (2011). Neotectonic Activity of the Granada Basin – New Evidence from the Padul-Nigüelas Fault Zone. 2nd INQUA-IGCP-567 International Workshop on Active Tectonics, Earthquake Geology, Archaeology and Engineering, Corinth, Greece.
- Ruff, L. and Kanamori H. (1980). Seismicity and the subduction process, *Phys. Earth Planet. Interiors*, v. 23, pp. 240–252.
- Sabins, F.F. (1987). *Remote Sensing. Principles and Interpretation*. (New York: Freeman).
- Sahu, O.P. and Saikia, M.M. (1994). The b-value before the 6th August, 1988 India-Myanmar border region earthquake-A case study, *Tectonophysics*, v. 234, pp. 349-354.
- Sarp, G., Gecen, R., Toprak, V. and Duzgun S. (2011). Morphotectonic Properties of Yenicaga Basin Area in Turkey. *Proceeding ISRSE-34/211104015*.
- Sati, S. P., Sundriyal, Y. P. and Rawat, G. S. (2007). Geomorphic indicators of neotectonic activity around Srinagar (Alaknanda basin), Uttarakhand. *Current Science*, v. 92 (6), pp. 824-829.
- Satyajit Biswas, Ranjit Kumar Majumdar and Amit Das Gupta. (1988). Seismicity, b- value and focal depth distributions of earthquakes in the Andaman-Nicobar Island region. *GEOFIZIKA*, v.5, pp. 107-119.
- Savage, J. C. (1983). A dislocation model of strain accumulation and release at a subduction zone, *J. Geophys. Res.*, v. 88, pp. 4984–4996, doi:10.1029/JB088iB06p04984.
- Schlüter, H.U., Gaedicke, C., Roeser, H.A., Schreckenberger, B., Meyer, H., Reichert, C., Djajadihardja, Y. and Prexl, A. (2002). Tectonic features of the southern Sumatra-western Java forearc of Indonesia. *Tectonics*, v. 21(5), pp.1047. doi:10.1029/2001TC901048.
- Scholz, C. H. (1968). The frequency-magnitude relation of microfracturing in rock and its relation to earthquakes. *Bull. Seismol. Soc. Am.*, v. 58, pp. 399-415.
- Schonfelder C.S. (2006). Joint interpretation of the size and time distributions of seismic activity around distributions of seismic activity around Hengill triple junction (SW

- Iceland) between 1993 and 1999. *J Seismol*, v. 10, pp. 237-246, DOI 10.1007/S10950-006-9011-5.
- Schorlemmer, D., Wiemer, S. and Wyss, M. (2005) Variation in earthquake-size distribution across different stress regimes, *Nature*, v. 437 (22), pp. 539-542.
- Seely D. R., Vail D. R. and Walton G. G. (1974). Trench slope model. In Burke G. A. & Drake G. L. (eds). *Geology of Continental Margins*, Springer Verlag, Berlin. pp. 219–60.
- Shorth, N. M., (2004). Lineaments and Fractures. Remote Sensing Tutorial. [http://rst.gsfc.nasa.gov/Sect2/Sect2\\_8.html](http://rst.gsfc.nasa.gov/Sect2/Sect2_8.html). visited on 24.11.04.
- Shreve, R.L. (1967). Infinite topologically random channel networks, *Journal of Geology*, v. 75, pp. 178-186.
- Sieh, K. (2005). What happened and what's next? *Nature*, v. 434, pp. 573-574.
- Sieh, K. and Natawidjaja, D. (2000). Neotectonics of the Sumatran fault, Indonesia, *J. Geophys. Res.*, v. 105 (28), pp. 295–326.
- Silva, P.G., Goy, J.L., Zazo, C. and Bardajm, T. (2003). Fault generated mountain fronts in Southeast Spain: geomorphologic assessment of tectonic and earthquake activity. *Gemorphology*, v. 250, pp. 203-226.
- Simoës, M., Avouac, J.P., Cattin, R. and Henry, P. (2004). The Sumatra subduction zone: a case for a locked fault zone extending into the mantle, *J. Geophys. Res.*, v. 109, pp. (B10402) doi:10.1029/2003JB002958.
- Sinha, S. R. (2001). Neotectonic significance of longitudinal river profiles: An example from the Banas drainage basin, Rajasthan. *J. Geol. Soci. India*, v. 58, pp. 143-156.
- Slancova, A., Spicak, A., Hanus, V. and Vanek, J. (2000). How the state of stress varies in the Wadati–Benioff Zone: indications from focal mechanisms in the Wadati–Benioff Zone beneath Sumatra and Java. *Geophys.J. Int.*, v. 143, pp. 909–930.
- Smith, DG. and Jol, HM. (1995) Ground penetrating radar: antenna frequencies and maximum probable depths of penetration in Quaternary sediments. *Journal of Applied Geophysics*, v. 33, pp. 93-100.
- Som, S.K., Anjan, Rai Choudhuri., Vijay Shivgotra, Basir, S.R., Ashim Kumar Saha, and Swamy, M.M. (2011). Transtension to transpression: A study of strain evolution in Andaman Islands based on GPS measurements following Great Sumatra–Andaman Earthquake, 2004. *Journal of Asian Earth Sciences*, v. 42, pp. 38–50.

- Som, SK, Vijay, Shivgotra and Ashim, Saha (2011). Coral microatoll as geodetic tool in North Andaman and Little Andaman, India. *J. Earth Syst. Sci.* v. 118 (2), pp. 157–162.
- Som, S.K., Vijay Shivgotra, and Ashim Saha (2009). Coral microatoll as geodetic tool in North Andaman and Little Andaman, India. *J. Earth Syst. Sci.*, v. 118 (2), pp. 157–162.
- Spence W. (1987). Slab pull and the seismotectonics of subducting lithosphere, *Rev. Geophys.*, v. 25(1), pp. 55–69.
- Sridevi Jade, Ananda, M. B. Dileep Kumar P. and Souvik Banerjee (2005). Co-seismic and post-seismic displacements in Andaman and Nicobar Islands from GPS measurements. *Current Science*, v. 88 (12), pp. 1980-1984.
- Stein, S. and Okal, E.A. (2005). Speed, Speed and size of the Sumatra earthquake, *Nature*, v. 434, pp. 581–582.
- Strahler, A. N. (1964). Quantitative geomorphology of drainage basins and channel networks. In Chow, V.T. (ed.) *Handbook of Applied Hydrology*, McGraw-Hill, New York. pp. 439-476.
- Strahler, A.N. (1952). Hypsometric (area-altitude) analysis of erosional topography, *Geological Society of America Bulletin*, v.63, pp. 1117-1142.
- Strahler, A.N. (1957). Quantitative analysis of watershed geomorphology, *American Geophysical Union Transactions*, v. 38, pp. 913-920.
- Strahler, A.N. (1958). Dimensional analysis applied to fluvially eroded landforms, *Geological Society of America Bulletin*, v. 69, pp. 279-299.
- Subarya, C., Chlieh, M., Prawirodirdjo, L., Avouac, J. P., Bock, Y., Sieh, K., Meltzner, A. J., Natawidjaja, D. H. and McCaffrey R. (2006). Plate boundary deformation associated with the great Sumatra-Andaman earthquake, *Nature*, v. 440, pp. 46–51, doi:10.1038/nature04522.
- Sujit Dasgupta, Basab Mukhopadhyay and Auditeya Bhattacharya (2007). Seismicity pattern in north Sumatra–Great Nicobar region: In search of precursor for the 26 December 2004 earthquake. *J. Earth Syst. Sci.*, v. 116 (3), pp. 215–223.
- Summerfield, M. A. (1997). *Global Geomorphology: An introduction to the study of landforms*. Essex, England: Longman.
- Suryawanshi R.A. and Golekar R.B. (2014). Morphotectonic and Lineament analysis from Bhatia and Jaigarh Creek, Ratnagiri, MS, India: Neotectonic Implication. *International Research Journal of Earth Sciences*, v. 2(10), pp. 16-25.

- Suzen, M.L. and Toprak, V. (1998). Filtering of Satellite Images in Geological Lineament Analyses: an Application to a Fault Zone in Central Turkey. *International Journal of Remote Sensing*, v. 19 (6), pp. 1101-1114.
- Syed Amer Mahmood and Richard Gloaguen (2012). Appraisal of active tectonics in Hindu Kush: Insights from DEM derived geomorphic indices and drainage Analysis. *Geoscience Frontiers*, v. 3 (4), pp. 407-428.
- Szekely, B., Reinecker, J., Dunkl, I., Frisch, W. and Kuhlemann J. (2002). Neotectonic movements and their geomorphic response as reflected in surface parameters and stress patterns in the Eastern Alps. *EGU Stephan Mueller Special Publication Series, European Geosciences Union*, v. 3, pp. 149–166.
- Tapan Pal., Partha Pratim Chakaraboty., Tanay Dutta Gupta. and Chanam Debojit Singh. (2003). Geodynamic evolution of the outer-arc-forearc belt in the Andaman Islands, the central part of the Burma-Java subduction complex. *Geol. Mag. Cambridge University Press*, v.140 (3), pp. 289-307.
- Tejpal Singh and A. K. Awasthi (2010). Stream profiles as indicator of active tectonic deformation along the Intra-Foreland Thrust, Nahan Salient, NW India. *Current Science*, v. 98 (1), pp. 95-98.
- Thenhaus, P. C. and Campbell, K. W. (2003). *Seismic Hazard Analysis. Earthquake Engineering Handbook*, Chapter 8, Chen W. And Scawthorn C. ed., CRC Press.
- Tipper, G.H (1911) *The Geology of Andaman Islands with special reference to the Nicobar. Mem.Geol.Surv.India*, v.35 (3), pp.135-145.
- Tsapanos T. (1990). b-values of two tectonic parts in the circum-Pacific belt, *Pageoph.*, v.134, pp. 229-242.
- Ulriksen, CPF. (1982). *Application of impulse radar to civil engineering. Lund University of Technology, Lund* (republished by Geophysical Survey Systems Inc., Hudson, NH. Univ. Tokyo, v. 17, pp. 443-478.
- Uyeda, S. and Kanamori, H. (1979). Back-Arc Opening and the Model subduction. *Journal of Geophysical Research.*, v. 84 (B3), pp.1049-1061.
- Vahid Hosseini Toudeshki (2011). Morphotectonic Analysis in the Ghezel Ozan River Basin, NW Iran. *Journal of Geography and Geology. ISSN 1916-9779*, v. 3 (1), pp. 258-265.
- Van der Woerd, J., Xu, D., Li, H., Tapponnier, P., Meyer, B., Ryerson, F.J., Meriaux, A.S. and Xu, Z. (2001). Rapid active thrusting along the northwestern range front of the

- Tanghe Nan Shan (western Ganshu China). *Journal of Geophysical Research*, v. 106, pp. 30475–30504.
- Vigny, C., Simons, W.J.F., Abu, S., Bamphenyu, R., Satirapod, C., Choosakul, N., Subarya, C., Socquet, A., Omar, K., Abidin, H.Z. and Ambrosius B.A.C. (2005). Insight into the 2004 Sumatra-Andaman earthquake from GPS measurements in Southeast Asia, *Nature*, v. 436, pp. 201–206.
- Vikrant Jain T. and Sinha, R. (2005). Response of active tectonics on the alluvial Baghmata River, Himalayan foreland basin, eastern India. *Geomorphology*, v. 70, pp. 339–356.
- Walsh, J.J., Nicol, A. and Childs, C. (2002). An alternative model for the growth of faults. *Journal of Structural Geology*, v. 24, pp. 1669–1675.
- Wang, J. and Howarth, P.J. (1990). Use of the Hough Transform in Automated Lineament Detection. *IEEE Transactions on Geoscience and Remote Sensing*, v. 28 (4), pp. 561-566.
- Wells, S. G., Bullard, T. F., Menges, T. M., Drake, P. G., Karas, P. A., Kelson, K. I., Ritter, J. B. and Wesling, J. R. (1988). Regional variations in tectonic geomorphology along segment convergent plate boundary, Pacific coast of Costa Rica. *Geomorphology*, v. 1, pp. 239-265.
- Westerhaus, M., Wyss, M., Yilmaz, R. and Zschau, J. (2002). Correlating variations of b-values and crustal deformations during the 1990s may have pinpointed the rupture initiation of the Mw = 7.4 Izmit earthquake of 1999 August 17, *Geophys. J. Int.*, v. 148, pp. 139-152.
- Wiemer S. and Wyss, M. (1997). "Mapping the frequency – magnitude distribution in asperities: an improved technique to calculate recurrence times?" *J. Geophys. Res.*, v. 102, pp. 15115,
- Wiemer, S. and Benoit, J. (1996). Mapping the b-value anomaly at 100 km depth in the Alaska and New Zealand subduction zones. *Geophys. Res. Lett.*, v. 23, pp. 1557-1560.
- Wiemer, S., McNutt, S.R. and Wyss, M. (1998). Temporal and three-dimensional spatial analyses of the frequency-magnitude distribution near Long Valley Caldera, California. *Geophys. J. Int.*, v.134, pp. 409-421.
- Wilgoose, G., Bras, R.L. and Rodriguez-Iturbe, I. (1991). A coupled channel network growth and hillslope evolution model: 2. Nondimensionalization and applications, *Water Resources*, v. 27, pp. 1685-1696.

- Wojewoda, J. (2004). Geodynamic interpretation of anomalies in the orientation of the upper segment of the Nysa Kłodzka river, *Geolines*, v. 17, pp. 103-106.
- Wojewoda, J. (2005a). „Events” in the Upper Nysa Kłodzka River valley and their geotectonic interpretation (in Polish), *Referaty Oddziału Poznańskiego PTG* (2004), v. 14, pp. 59-76.
- Wojewoda, J. (2006a). The Kudowa Trough after 200 years of investigations (in Polish). W: *Referaty Oddziału Poznańskiego PTG* (2004), v. 15, pp. 1-17.
- Wojewoda, J. (2006b). South Sudetic Basin Suite (SSBS) and Intrasudetic Tension Zone (ISTZ). W: Wysocka, A., Jasionowski, M. [red.] –Przebieg i zmienność sedimentacji w basenach przedgórzskich. *POKOS*, v. 2, pp. 175.
- Wojewoda, J. (2007a). The Czerwona Woda Creek: A tectonically controlled mountain river basin. In: O. Jamroz, [ed.] - On recent geodynamics of the Sudeten and adjacent areas, Kłodzko, Poland, March 29-31, pp. 34-35.
- Wyss, M. (1973). Towards a physical understanding of the earthquake frequency distribution. *Geophys. J.R. astr. Soc.*, v. 31, pp. 341-359.
- Zlatopolsky, A. A. (1997). Description of Texture Orientation in Remote Sensing Data Using Computer Program LESSA, *Computers & Geosciences*, v. 23 (1), pp. 45-62.
- Zovoili E., Konstantinidi E. and Koukouvelas, I. K. (2004). Tectonic Geomorphology of Escarpments: The Case of Kompotades and Nea Anchialos Faults. *Bulletin of the Geological Society of Greece*, v. 36, pp. 1716-1725.