**PEER REVIEWED PUBLICATIONS:**

**Journal Article**

**2020**

* Sargeant, S., Finlayson, A., Dijkstra, T., Flinn, B., Schofield, H., Miranda Morel, L., Twigg, J., Lovell, E., Stephenson, V., **Adhikari, B.R.,** 2020, The Influence of the physical environment on self-recovery after disasters in Nepal and the Philippines, International Journal of Disaster Risk Reduction, v. 50.
* Xiong, K., **Adhikari, B.R.,** Stamatopoulos, C.A., Zhan, Y., Wu, S., Dong, Z. and Di, B., 2020, Comparison of Different Machine Learning Methods for Debris Flow Susceptibility Mapping: A case Study in Sichuan Province, China, Remote Sensing, Vol. 12 (2), 295, <https://doi.org/10.3390/rs12020295>.
* Gnyawali, K. R., Zhang, Y., Wang, G., Miao, L., Pradhan, A.M.S., **Adhikari, B.R.,** Xiao, L., 2019, Mapping the susceptibility of rainfall and earthquake triggered landslides along China-Nepal Highways, Bulletin of Engineering Geology and the Environment, 79, pp. 587-601.

**2019**

* Menges, J., Hovius N., Andermann, C., Dietz, M., Swoboda, C., Cook, K.L., **Adhikari, B.R.,** Vieth-Hillebrand, A., Bonnet, S., Reimann, R., Koustdodendries, A., Sachse, D., 2019. Late Holocene landscape collapse of a Trans-Himalayan dryland: Human impacts and aridification, Geophysical Research Letters, (DOI: 10.1029/2019GL084192)
* Thapa, P.S. and **Adhikari, B.R.,** 2019. Development of community-based landslide early warning system in the earthquake-affected areas of Nepal, Journal of Mountain Science, 16 (12), pp. 2701-2713.
* Chen, F., Tian, B., **Adhikari, B.R.,** Gou, X., 2019. Mapping digital drainage network using geoprocessing: A case study of Kali Gandaki River basin, Nepal Himalaya. IEEE, 978-1-5386-9154-0/19, 3479-3482.

**2018**

* Stolle, A., Schwanghart, W., Andermann, C., Bernhardt, A., Fort, M., Jansen, J.D., Wittmann, H., Merchel, S., Rugel, G., **Adhikari, B.R**., Korup, O., 2018, Protracted river response to medieval earthquake, Earth Surface Processes and Landforms, <https://doi.org/10.1002/esp.4517>.
* Cook, K.L, Andermann, C., Gimber, F., **Adhikari**, B.R. and Hovius, N., 2018, Glacial lake outburst floods as drivers of fluvial erosion in the Himalaya, Science, Vol. 362, pp. 53-57.
* **Adhikari, B.R.** and Sitoula, N.R., 2018, Community based flash flood early warning systems: a low-cost technology for Nepalese mountains, Bulletin of Department of Geology, Tribhuvan University, Nepal, v. 20, pp. 87-92.

**2017**

* Gautam, S., Chatterjee, R. and **Adhikari, B.R.,** 2017, Business recovery after Gorkha Earthquake 2015 in Nepal. UNMGCY Youth Science Policy Interface Publication – Special Edition: Disaster Risk Reduction: A Road of Opportunities. May, 2017.
* Stolle, A., Swchwanghart, W., Andermann, C., Bernhardt, A., Wittmann, H., Merchel, S., Rugel, G., Fort, M., **Adhikari, B.R.** and Korup, O., 2017, Catastrophic valley fills record large Himalayan earthquakes, Pokhara, Nepal, Quaternary Science Reviews, vol. 117, pp. 83-103.
* **Adhikari, B.R.,** Nidal, N., Yadav, B.K. and Awasthi, S., 2017, Landslide risk assessment of the Patlekhet landslide, Myagdi district, Nepal, Journal of the Institute of Engineering (accepted).
* Gnyawali, K.R. and **Adhikari, B.R.,** 2017, Spatial Relations of Earthquake Induced Landslides Triggered by 2015 Gorkha Earthquake Mw=7.8, Landslide research and risk reduction for advancing culture of living with natural hazards, Advancing Culture of Living with landslides, M. Mikos et al. (eds.) Spinger Publication, pp-85-93.
* [Rai, S.M., Upreti, B.N., Shakal, S., Bhattarai, T.N., **AdhiKari, B.R.,** Bajracharya, S.R. and Yoshinda, M., 2017, Climate Change Impact on Glacier Retreat and Local Community in the Langtang Valley, Central Nepal, Journal of Development Innovations, Vol. 1, No. 1, pp. 45-59.](http://karmaquest.org/journal/index.php/ILGDI/article/view/11)
* Bicker, J.D., Schwanghart, W., **Adhikari, B.R.,** Moriguchi, S., Roeber, V. and Giri, S., 2017, Performance of models for flash flood warning and hazard assessment: the 2015 Kali Gandaki landslide breach in Nepal, Journal of Mountain Research and Development. V.37, No 1, pp. 5-15.

**2016**

* Gnyawali, K.R., Maka, S., **Adhikari, B.R.,** Chamlagain D., Duwal, S. and Dhungana A.R., 2016, Spatial Implication of Earthquake Induced Landslides Triggered by the April 25 Gorkha Earthquake Mw 7.8: Preliminary Analysis and Findings, Proceeding of International conference on Earthquake Engineering and Post Disaster Reconstruction Planning, pp. 50-58.

**2015**

* Schwanghart, W., Bernhardt, A., Stolle, A., Hoelzmann, P., **Adhikari, B. R.,** Andermann, C., Tofelde, S., Merchel, S., Rugel, G., Fort, M., Korup, O., 2015, Repeated catastrophic valley infill following medieval earthquakes in the Nepal Himalaya. Science 2015. 10.1126/science.aac9865
* Gotz, J.; Weidinger, J.T.; Kraxberger, S.; Hennecke, J.B.; **Adhikari, B.R.,** 2015, Geomorphologic and Hydrologic characteristics of Populated Rockslide Deposits (Sagarmatha National Park, Khumbu Himala, Nepal), Journal of Water Resource and Protection, vol. 7, pp. 1038-1048.
* Moss, R.E.S.; Thompson, E.M.; Kieffer, D.S.; Hashah, M.A.Y.; Acharya, I.; **Adhikari, B.,** Asimaki, D.; Clahan, K.B.; Collins, B.D.; Dahal, S.; Jibson, R.W.; Khadka, D., MacDonal, A.; Madugo, C.L.M.; Mason, H.B.; Pehliyan, M.; Rayamajhi, D. and Uprety, S. 2015, Geotechnical Effects of the 2015 Magnitude 7.8 Gorkha, Nepal Earthquake and Aftershocks, Seismological Research Letters, V. 86, no. 6, pp. 1514-1523

**2014**

* Emerman, S.H; Nelson, J.R; Carlson, K.; Anderson, T.R.; Sharma A.; **Adhikari, B.R.,** 2014, The effect of surface lithology on arsenic and other heavy metals in surface water and groundwater in Mustang Valley, Nepal Himalaya, Journal of Nepal Geological Society, vol. 47, pp. 1-21.
* Khadka, P and **Adhikari, B. R.** 2014, Flood vulnerability and capacity assessment of people of Holiya VDC in Banke district, Nepal, Proceedings of the International Symposium on ‘Geohazards: science, engineering and Management’ pp. 536-548.

**2013**

* **Adhikari, B. R.** and Wagreich, M., 2013, Microfacies analysis and paleoenvironmental significance of palustrine carbonates in the Thakkhola-Mustang Graben (Nepal Himalaya), Journal of Asian Earth Sciences, vol. 77, pp. 117-126.
* Emerman, S.H., Stuart, K. L., Sapkota, A., Khatri, S., **Adhikari, B. R.** and Williams, J., Garcia, P. K. 2013,Support for the fluvial recharge model for arsenic contamination of groundwater in Pokhara Valley, Nepal Himalaya, Journal of Nepal Geological Society, vol. 46, pp.75-94.

**2012**

* **Adhikari, B.R**. and Paudyal, K.N, 2012, Neogene pollen assemblage from the Thakkhola-Mustang Graben, central Nepal Himalaya, Bulletin of Nepal Geological Society, Vol. 29, pp. 53-58.

**2011**

* Rai, S.M., Yoshida, M., Upreti, B.N., Bhattarai, T.N., Ulak, P.D., Gajurel, A. P., Dahal, R. K., Dhakal, S., Koirala,M. P., Sharma, L. N. and **Adhikari, B.R.,** 2011, Field excursion guidebook series on geology, natural hazards and vegetation of the Nepal Himalaya, Bulletin of Nepal Geological Society, Vol. 28, pp. 93-98.
* **Adhikari, B. R.** and Wagreich, M., 2011,Facies analysis and basin architecture of the Neogene Thakkhola-Mustang Graben, central Nepal, Journal of Austrian Earth Sciences, vol. 104/1, pp. 66-80.
* **Adhikari, B. R.** and Wagreich, M., 2011, Provenance evolution of collapse graben fill in the Himalaya - the Miocene to Quaternary Thakkhola-Mustang Graben (Nepal), Sedimentary geology, vol. 233, pp. 1-14.

**2007**

* **Adhikari, B. R.,** 2007, An overview of Thakkhola-Mustang Graben, Bulletin of Nepal Geological Society, Vol. 23, pp. 53-57.

**2006**

* **Adhikari, B. R.** and Tamrakar, N. K., 2006, Bank instability and erosion problems of Bishnumati River, Kathmandu, Nepal, Nepal Geological Society, Journal of Nepal Geological Society, vol. 34, pp.109-116.

**Book:**

* **Adhikari, B.R.,** 2016, Land and Soil, Compendium of Environment Statistics, Central Bureau of Statistics, Government of Nepal, 176p.
* Devkota, S. and **Adhikari, B.R.**, 2015, Development of Ecosystem based Sediment Control Techniques and Design of Siltation Dam to Protect Phewa Lake, Government of Nepal/United Nations Development Programmes (UNDP), 64p.
* **Adhikari, B.R.** and Suwal, M.K., 2013, Hydrogeological Study in BangsingDeurali VDC, Syangja, An Ecosystem-based Adaptation in Mountain Ecosystem in Nepal, IUCN, Nepal, 60p.
* Yoshida, M., Upreti, B.N., Rai, S.M., Bhattarai, T.N., Ulak, P.D., Gajurel, A. P., Dahal, R. K., Dhakal, S., Koirala, M. P., Sharma, L. N. and **Adhikari, B.R.,** 2011, Guidebook for Himalayan Trekkers (Series No. 2), Eco-trekking in the Everest Region, Eastern Nepal, Department of Geology, Tri-Chandra Multiple campus, Tribhuvan University, 192p.
* **Adhikari, B.R.,** “River degradation: Issues and Challenges” by Lambert Academic Publishing, Germany, December 2011.

**Book Chapters:**

* **Adhikari, B.R.,** Shrestha, S.D., and Shakya, N.M., 2017, Urban Water Crisis and in Mountain Communities: Examples from Kathmandu, Urban Drought: Emerging Water Challenges in Asia (Bhaswati Ray and Rajib Shaw eds.), Springer publication, Book Chapter (accepted).
* Fort, M. and **Adhikari, B.R.** 2017, Pokhara (cental Nepal): a dramatic, yet geomorphologically active environment Vs. a dynamic, rapidly developing city, Urban geomorphology: Landforms and processes in cities (Marry Thornbush and Casey allen eds.), Elsevier publication, Book Chapter (accepted).

**General Articles:**

* **Adhikari, B. R.,** 2016, Gorkha Earthquake 2015: Cause and Effect, Techno-civil, vol 5, pp. 20-25.
* Fort, M., **Adhikari, B.R.,** Stolle, A., Schwanghart, W., Korup, O. 2015, Catastrophic Mountain wall collapses in the Nepal Himalayas: A review with focus on Pokhara valley, Gradualism Vs Catastrophism in Landscape Evolution, International conference, Barnual, Russia, July 2-4, 2015.
* **Adhikari, B. R.,** 2013, Rock mass classification system and problems associated with their parameters in underground excavation system, Techno-civil, vol 4, pp. 51-55.
* **Adhikari, B. R.,** 2013, **पोखरा उपत्यकाको भौगोलक उपती र बिकासक्रम, स्मारिका**, Lions Club of Pokhara Chautari, pp. 51-53 (Article in Nepali).
* **Adhikari, B. R.,** 2012, **बेगनास : भौगोलिक र भौगर्भिक परिचय, बेगनास पत्रिका, वर्ष ७, अंक १,** pp. 30-32
* **Adhikari, B. R.,** 2011, **पश्चिम नेपाल स्थित थाकखोला –मुस्तांग उपत्यकाका तालीय अवयवहरुको विस्लेषण , हाम्रो सम्पदा, वर्ष ११, अंक ६,** pp. 55-60 (Article in Nepali)
* **Adhikari, B. R.,** 2010, An introduction to Optically Stimulated Luminescence (OSL), GEOWORLD, pp 30-32.
* **Adhikari, B. R.,** 2000, Topography of the Ocean Floor, GEOWORLD, pp 88-89.

**Technical Study Reports:**

* **Investigation and treatment of landslides for recovery and reconstruction of earthquake affected areas of Sindhupalchowk and Dolakha district,** Nepal, Save the Children International, 2017
* **Geotechnical Field Reconnaissance: Gorkha (Nepal) Earthquake of April 25, 2015 and related shaking sequence,** GEER Association Report No. GEER-040. 2015
* **Design and develop low cost and low tech Community Based Early Warning System (CBEWS) for Flash flood, Eastern Nepal,** CFGORRP/UNDP/DHM/IoE 2014.
* **Piloting Early Warning System (EWS) for Landslides in Far West of Nepal,** Mercy Corps/ IoE, Nepal, 2014