## (a) Recent International peer-reviewed Journal Publications

1. Van-Phuc Hoang, Du Duong Bui, Thanh Quan Do, Van-Lan Dao,Dinh-Nhan Le, A Long Range, Energy Efficient Drought Monitoring and Early Warning System Based on Internet of Things. Smart Water. (2018, under review).

2. Nguyen L. B. Vo, Duong Du Bui, Hai Duy Do, Tien Le Thuy Du, Smart Watering System for sustainable urban greenery in Vietnam. Smart Water (2018, Under review).

3. Joost Buurman, Duong Du Bui, Tien Le Thuy Du. Drought risk assessment by combining household survey information and drought indicators: a case in Vietnam. International Journal of Water Resources Development, 2018 (Under review).

4. Hung Manh Le, Jessica R.P.Sutton, Duong Du Bui, John D. Bolten, Venkataraman Lakshmi, Comparison and bias correction of TMPA precipitation products over the lower part of Red-Thai Binh River Basin of Vietnam, Remote Sensing (2018, under review)

5. Faisal Hossain, Nishan Biswas, Shahryar Ahmad, Matthew Bonnema, Bui Du Duong, Nguyen Luong. Using satellites to make information on dam storage and outflow more accessible in developing countries. Eos Transactions American Geophysical Union (Eos Trans. AGU, IF 1.83, under review)

6. Tien Le Thuy Du, Duong Du Bui, Minh Duc Nguyen, Hyongki Lee. Satellite-Based, Multi-Indices for Evaluation of Agricultural Droughts in a Highly Dynamic Tropical Catchment, Central Vietnam. Water 2018, 10, 659.

7. Nuong Thi BUI, Akira KAWAMURA, Hideo AMAGUCHI, Duong D BUI, Tu N TRUONG,Kei NAKAGAWA. Social Sustainability Assessment of Groundwater Resources: A case study of Hanoi, Vietnam. Ecological Indicators (SCI, IF 4.0), 2018, 93, 1034-1042

8. Bui, T.N., Kawamura, A., Amaguchi, H., Bui, D.Duong., Truong, N.T., Nguyen, H.N., 2018. Economic Sustainability Assessment of Groundwater Resources: A case study of Hanoi, Vietnam. Journal of Environmental Sciences and Engineering (in press).

9. Joost Buurman; Duong Du Bui; Le Thuy Tien Du, 2016. Natural Hazards. Drought risk assessment by combining household survey information and drought indicators: a case study in central Vietnam (in review)

10. Tien L.T. DU, Duong D. BUI, Joost BURMAN, Xuan T. Quach, 2018 Adaptive governance for urban resilience to droughts: the case of a coastal city in a trans-boundary basin, Vietnam. International Journal of Water Resources Development, 2018, 34(4), 597-615. https://doi.org/10.1080/07900627.2018.1438886

11. Nguyen Hoang Hiep, Nguyen Duc Luong, Tran Thi Viet Nga, Bui Thi Hieu, Ung Thi Thuy Ha, Bui Du Duong, Vu Duc Long, Faisal Hossain, Hyongki Lee. Hydrological Model Using

Ground- and Satellite-based Data for River Flow Simulation towards Supporting Water Resource Management in the Red River Basin, Vietnam. Journal of Environmental Management. vol. 14, no. 217, pp. 346-355, 2018. https://doi.org/10.1016/j.jenvman.2018.03.100.

12. Hossain, Faisala, Sikder, Safata, Biswas, Nishana, Bonnema, Matthewa, Lee, Hyongki Luong, N.D. Hiep, N.H., Du Duong Bui, Long, Duc. 2017. Predicting Water Availability of the Regulated Mekong River Basin Using Satellite Observations and a Physical Model. Asian Journal of Water, Environment and Pollution, vol. 14, no. 3, pp. 39-48, 2017. DOI: 10.3233/AJW-170024.

13. Nuong Thi Bui, Akira Kawamura, Kyoung Woong Kim, Lunchakorn Prathumratana, TaeHeok Kim, Suk-Ho Yoon, Min Jang, Hideo Amaguchi, Duong Du Bui, Ngoc Tu Truong. (2017). Proposal of an indicator-based sustainability assessment framework for the mining sector of APEC economies. Resources Policy 52 (2017) 405–417 (Impact Factor: 2.13, SCI)

14. Du L.T. Tien, Bui Du Duong, Quach Xuan, Lisa Robins, 2016. Water Governance in a changing era: A Vietnamese Perspectives on Vietnam. Chapter No. 9 of a book “Water Governance Dynamics in the Mekong Region”, 322 pages, ISBN 978-967-0960-44-9

15. Duong D Bui, Nghia C Nguyen, Nuong T Bui, Anh T T Le, Dao T Le. Climate change and groundwater resources in Mekong Delta, Vietnam. Journal of Groundwater Science and Engineering. 2017 Vol. 5 (1): 76-90.

16. Thuy. Nguyen, A. Kawamura; Duong Du Bui; and others. 2015. Identification of hydrogeochemical characteristics of the unconfined groundwater in the Red River Delta, Vietnam, using self-organizing maps. Applied Geochemistry (Impact Factor: 2.27, SCI) 10-21 (63)

17. Romeo, L. Gilbuena, Duong Du BUI, and others. 2013. Environmental Impact Assessment for structural flood mitigation measures: A case study in Metro Manila, Philippines. Science Total Environment (Impact Factor: 3.4, SCI); 456-457:137-14

18. Duong Du BUI, Akira KAWAMURA, Thanh Ngoc TONG, Hideo AMAGUCHI, Naoko NAKAGAWA. Recent trends in groundwater levels in Hanoi, Vietnam (in review). Journal of Hydrology (Impact Factor: 2.13, SCI). 2014.

19. Duong Du BUI, Akira KAWAMURA, Thanh Ngoc TONG, and others. 2012. Tempo-spatial analyses of recent trends in groundwater levels over the Red River Delta, Vietnam. Hydrogeology Journal (Impact Factor: 1.4, SCI). 20(8), 1635-1650.

20. Duong Du BUI, Akira KAWAMURA, Thanh Ngoc TONG, and others, 2012. Aquifer system characterization for potential groundwater resources in Hanoi, Vietnam. Hydrological process (Impact Factor: 1.8, SCI), 26(6), 932–946.

21. Duong Du BUI, Akira KAWAMURA, Thanh Ngoc TONG, Hideo AMAGUCHI, and others. 2011. Identification of aquifer system in the whole Red River Delta, Vietnam. Geosciences Journal (SCIE, Impact Factor: 0.67, SCIE). 2011. 15(3), 323-338.

22. Duong Du BUI, Cat Minh VU, Hung S. NGUYEN, Akira KAWAMURA, and others. 2011. Trends in hydroclimatic series in Thua Thien Hue province, Vietnam: 1. Rainfall and rainy days. Sustainable Urban Regeneration (SUR), Japan. No.8, pp.40-43.

23. T. N. Bui, K. W. Kim, L. Prathumratana, K. Y. Lee, T.H. Kim, S.H. Yoon, M. Jang, and Duong Du BUI. 2011. Application of Fuzzy Analytic Hierarchy Process to Sustainable Development Evaluation for Mining Sector. Geosystem Engineering Journal. (No. 14(1), pp. 54-60).

**(b) Recent Vietnamese peer-reviewed Journal publications**

24. Bui Du Duong, Nguyen Hung Anh, Vu Minh Cat, Nguyen Thi Thuy, Multi-criteria approach for basin water allocation: a case study of a transboundary Vu Gia-Thu Bon river basin, Vietnam. Journal of Water Resources and Environmental Engineering. Vietnam. 2018 (Accepted after minor revision)

25. Duong Du BUI, Kieu Duy Tran, and others. 2013. Development of an urban stormwater management framework toward building climate change resilient cities in Vietnam. Journal of Natural Resources and Environment, Vietnam, p56-65, No. 1.

26. Vu Minh Cat, Duong Du BUI. Application of Mike package to assess hydraulic regimes and flood mapping when construction of thermal power at the Mong Duong estuary, Quang Ninh, Vietnam. Journal of Water Resources and Environmental Engineering. Special issue for Internaional Estuaries workshop, Hanoi, Vietnam. pp 13-22. 2007.

27. Vu Minh Cat, Duong Du BUI. Assessment on the groundwater characteristics in the Red river delta serving the daily water exploitation. Journal of Agriculture and rural developments, Vietnam (ISSN 0866-7020). No 58(2), pp 45-53. 2005.

28. Vu Minh Cat, Duong Du BUI. Current status of arsenic contamination of groundwater in the Hatay province, Vietnam. Journal of Geology, Vietnam. No 295. pp 20-27. 2006.

29. Duong Du BUI, Thao Thanh PHAN. Numerical modeling for assessing impacts of Mong Duong thermal power factory to hydraulic regimes and inundated areas in the downstream of the Mong Duong River, Quang Ninh, Vietnam. Journal of Water Resources and Environmental Engineering, Vietnam, No.14, pp 54-61. 2006.

30. Duong Du BUI, Vu Minh Cat. Extensional application of Visual Modflow to study hydrogeology of coal mines in Quang Ninh province. Journal of Water Resources and Environmental Engineering, Vietnam, No 2. pp 75-82. 2004.

31. Duong Du BUI, Vu Minh Cat, Thanh Ngoc TONG. The possibility of artificial recharge to groundwater resources in Hanoi, Vietnam. Journal of Water Resources and Environmental Engineering, Vietnam. No 2. pp 111-122. 2004.

**(c) Recent Conference Publications:**

32. B.T. Bui A. Kawamura, H. Amaguchi, D.D. Bui and N.T. Truong, 2017. Social Sustainability Assessment of Groundwater Resources in Hanoi, Vietnam by a simple AHP Approach. International Congress and Exhibition "Sustainable Civil Infrastructures: Innovative Infrastructure Geotechnology" GeoMEast 2017 July 15 to 19

33. Tong Ngoc Thanh, Nguyen Chi Nghia, Bui Du Duong, 2014. Water Res. Investigation and Planning in Vietnam: Current state and its contribution to water governance. “Role of in parliamentary water governance” Workshop, 11 Dec 2014, Vietnam.

34. Nguyen V. C. Nguyen C.T, Bui Du Duong, Nguyen. V.H. 2014, Prediction of groundwater level using ANN model for Cu Chi District- Ho Chi Minh City. The 3rd VACI Symposium and Exhibition

35. Nguyen V. C. Nguyen C.T, Bui Du Duong, Nguyen. V.H. 2014, Public awareness, attitudes and behavior towards community-based water monitoring in Vietnam: A pilot study in Hanoi city. The 3rd VACI Symposium and Exhibition.

36. Le V.T. K, Nguyen C. D, Bui Du Duong, Ngo. D. Q 2014. Linear progamme in Basin Water Allocation: A Case Study in Vu Gia Thu Bon River System, 19th Congress of IAHR,

37. Schmitter P., Mesghi A., Bui Du Duong., Ooi S.K. (2013) Deciphering rainfall-runoff land cover contributions using computational hydrograph separation techniques in a tropical urban megacity. 2nd Water Research Conference, Singapore

38. Duong Du Bui, Rama R. Karri, and others (2012). Catchment-scale rainwater harvesting by barrages: A simulation study of Punggol-Serangoon reservoir system in Singapore. Proceedings “Water & the City”, June 2012, TU Delft, The Netherlands.

39. Duong Du Bui, Jingjie Zhang, and others. Optimizing Flood Control Operations of a Dual Reservoir System for Effective Urban Water Management. Proceedings of Asia Oceania

Geosciences Society (AOGS), Singapore; August, 2012. Singapore

40. Rama R. Karri, Bui Du Duong, J. Zhang, and others. Geostatistical Analysis of precipitation and water levels for robust hydrological modeling. Proceedings of Asia Oceania Geosciences Society (AOGS), Singapore; August, 2012. Singapore

41. Thuy T. Nguyen, A. Kawamura, Cat M. Vu, Duong Du BUI, and others. Interactions between the Red River and groundwater of two main aquifers in Hanoi, Vietnam. World Environmental And Water Resources Congress, USA. 2012

42. Duong Du BUI, A. KAWAMURA ,and others. Spatial decline distribution of groundwater levels of confined aquifer in the whole Red River Delta, Vietnam. World Environmental and Water Res. Congress by ASCE in California, USA, May, 2011.

43. A. KAWAMURA, Duong Du Bui, and others. Trend detection in groundwater levels of Holocene unconfined aquifer in Hanoi, by non-parametric approaches. World Environmental and Water Res. Congress by ASCE, California, USA , May, 2011.

44. Duong Du BUI, Akira KAWAMURA, and others. Trend analysis of confined and unconfined groundwater levels in Hanoi, Vietnam by Mann-Kendall test. Int. Conference on Hydrological Regime and Water Resources Management in the Context of Climate Change HWCC2010, Hanoi, Vietnam. Int. Hydrological Program IHP-VIII, UNESCO. 11/2010, pp. 305-312.

45. Hiromi BODA, Duong Du BUI, and others, Spatio-temporal characteristics of one-minute rainfall in Tokyo. The Fifth Conference of the Asia Pacific Association of Hydrology and Water Resources HWCC2010, Hanoi, Nov, 2010, pp. 527-534.

46. Cat Minh VU, Duong Du BUI, Hung Son NGUYEN, Akira KAWAMURA, Duc Minh VU, Thuy Thanh NGUYEN. Changes in hydroclimatic series in Thua Thien Hue province, Vietnam (Presented paper). International conference “Water along community: Hue”. 16-18 Aug, Hue city, Vietnam

47. Akira KAWAMURA, Duong Du BUI, Thanh Ngoc TONG, Hideo AMAGUCHI, and Naoko NAKAGAWA. Identification of aquifer system in the whole Red River Delta, Vietnam. International Scientific Conference on Water Observation and Information System for Decision Support. 25-29 May 2010 - Ohrid, Macedonia (published online). 2010.

48. Bui Thi Nuong, Suthipong Sthiannopkao, Kyoung–Woong Kim, Duong Du BUI. Prevalence of arsenic in groundwater resources in Hanoi2, Vietnam. SEGH 2010 International Conference on Environmental Quality and Human Health, Galway, Ireland, (pp.51-52). June 27- July 2, 2010.

49. Duong Du BUI, Akira KAWAMURA, Hideo AMAGUCHI, Naoko NAKAGAWA, and Yoshihiko ISERI Trend analysis of confined and unconfined groundwater levels in the Red River Delta, Vietnam by non-parametric tests. Proceedings of 2010 annual conference. Japan Society of Hydrology and Water Resource, 98-99, 2010

50. Akira KAWAMURA, Duong Du BUI, and others. Hydrogeological Framework for Potential Groundwater Resources in Hanoi, Vietnam. Proceedings of International Conference on Hydrology and Disaster Management. International Hydrological Program IHP-VII Technical Documents in Hydrology No.03, UNESCO, Wuhan, China (pp.192-198). 2009.

51. Duong Du BUI, and others. 3D Numerical modelling on Salt water intrusion of groundwater resources at Red river delta, Viet Nam. Proceedings of 4th Vietnamese -Japanese Students' Scientific Exchange Conference, Kyoto, Japan. 11/2008.

52. Vu M. Cat, Le X. Roanh, Duong Du BUI, and M. Umeyama. Study on saline water intrusion into estuaries of Red-Thai Binh Rivers in the dry season. International Symposium on Sustainable Urban Environment (p.80-89), Tokyo, Japan. 2007.

53. Duong Du BUI, Hien Thu DO, Hoang Anh HOANG, Nuong Thi BUI. Research on the groundwater pollution and its effect on the community health in Ha Noi, Viet Nam with the support of GIS and Mathematical model. Proceeding of the International workshop on Bio-Medicine. pp 338-343. Hanoi, Vietnam. 2007.

54. Thuy Thanh NGUYEN, Thanh Ngoc TONG, Duong Du BUI. Researching and applying the mathematical model for estimating groundwater balance in Red river delta base on the relationship between surface and ground water. Proceeding of the 10th Scientific Conference on Hydrology, Water Resources, and Environment, Hanoi Vietnam.

55. Vu Minh Cat, Duong Du BUI. Assessment of saline water intrusion into estuaries of Red-Thai Binh river during dry season having considered water released from upper reservoirs and tidal fluctuation. Proceeding of International Estuaries workshop, Hanoi, Vietnam. 2006.

**(d) Recent book, policy brief, white paper, technical guideline and others**

56. Tong Ngoc Thanh, Bui Du Duong, Cecilia Tortajada, Inovative Water Solutions for Vietnam and region,282 pages, ISBN, 978-604-62-9664-8.Vietnam National University Press.

57. Bui Du Duong, Du L.T. Tien, Tong My Thi, Vietnam Water Cooperation highlights 102 pages, Vietnam National University Press

58. Tong Ngoc Thanh, Bui Du Duong, Du L.T. Tien (2015). Water Security in a changing Era, Vietnam National University Press, 396 pages.

59. Bui Du Duong, Mark Fenn, Michael Digregorio, Du L.T. Tien (2015). "Groundwater in Vietnam: The problems we can’t see”. A white paper for raising awareness of this evolving critical issue in view towards remedial solutions. 8 pages

60. Tran Minh Phuong, Nguyen Duc Vinh, Nguyen Thi Thuy, Bui Du Duong, Du L.T. Tien (2015). Water needs to be loved, too!  A white paper for raising awareness of importance and vulnerability of water. 20 pages

61. Tong Ngoc Thanh, Nguyen Ngoc Ha, Bui Du Duong, and others (2015) Water Res. Investigation Practical Guidebook, National Center for Water Resources Planning and Investigation (NAWAPI) at Ministry of Natural Resources and Environment (MONRE) of Vietnam, 77 pages.

62. Tong Ngoc Thanh, Nguyen Chi Nghia, Bui Du Duong, and others (2014) Water Res. Monitoring Practical Guidebook, National Center for Water Resources Planning and Investigation (NAWAPI) at Ministry of Natural Resources and Environment (MONRE) of Vietnam, 46 pages

63. Tong Ngoc Thanh, Bui Du Duong, Nguyen Chi Nghia, (2014). Innovative solutions for Water Res. Monitoring and Forecasting, Vietnam National University Press, 212 pages (ISBN: 978-6-0462159-9-8)

64. Tong Ngoc Thanh, Duong Du BUI, and others, (ongoing). Water Resources planning circular. A legal document for MONRE.

65. Tong Ngoc Thanh, Duong Du BUI, and others, (ongoing). Water res. monitoring circular. A legal document for MONRE.

66. Akhilesh Suran, Duong Du BUI, and others, Understanding Hazard, Risk, Vulnerability and Capacity in a megacity: Reflections from Tokyo Metropolitan Area. A case study in Asia-Pacific Initiative on Disaster Management and Humanitarian Assistance - a multi-institutional collaborative education program,2010, UNU, Tokyo, 79pages.

67. Duong Du BUI, and others, Practical guideline: Disaster management for drought, World Federation of Engineering