

### SELECTED PUBLICATIONS

#### *Book Chapter:*

1. **Parajuli, P. B.** and Ouyang Y. 2013. Chapter 3: Watershed-Scale Water Quality Modeling Methods and Applications. In "Current Perspectives in Contaminant Hydrology and Water Resources Sustainability", book edited by Paul M. Bradley, Hydrology, ISBN 980-953-307-926-9. Page 57-80.

#### *Refereed Journals:*

2. Dakhllalla, Abdullah O.\*; **Parajuli, Prem B.**; Ouyang, Ying; and Schmitz, Darrel W. 2016. Evaluating the impacts of crop rotations on groundwater storage and recharge in an agricultural watershed. *Agricultural Water Management*, 163: 332-343.
3. Dakhllalla, Abdullah O.\*; **Parajuli, Prem B.** 2015. Evaluation of the Best Management Practices at the Watershed Scale to Attenuate Peak Streamflow Under Climate Change Scenarios. *Water Resource Management*, 1-20.
4. Priyantha Jayakody\*, **Parajuli P. B.**, and Brooks J. P. 2015. Assessing Climate Variability Impact on Thermotolerant Coliform Bacteria in Surface Water. *Human and Ecological Risk Assessment: An International Journal*, 21 (3): 691-706.
5. Ying Ouyang, Jia-En Zhang, Yide Li, **Prem Parajuli**, and Gary Feng. 2015. Impacts of rainfall and air temperature variations due to climate change upon hydrological characteristics: A case study. *Journal of Water and Climate Change*, 6(4): 865-879.
6. Yanqiong Ye, Jiaen Zhang, Lili Chen, Ying Ouyang, and **Prem Parajuli**. 2015. Dynamics of Ecosystem Service Values in Response to Landscape Pattern Changes from 1995 to 2005 in Guangzhou Southern China. *Applied Ecology and Environmental Research*, 13(1): 21-36.
7. Yangyang Deng\*, **Prem B. Parajuli**, and Hakkwan Kim. 2015. Cost Analysis Model for Catalytic Conversion of Syngas in to Light Hydrocarbon Gases. *Information Processing in Agriculture*, 2 (2015):37-50.
8. Malone R. W., G. Yagow, C. Baffaut, M. Gitau, Z. Qi, D. Amatya, **P. B. Parajuli**, J. Bonta, and T. R. Green. 2015. Parameterization Guidelines and Considerations for Hydrologic Models. *Transactions of the American Society of Agricultural and Biological Engineers*, 58(6): 1681-1703.
9. Jorge A. Guzman, Adel Shirmohammadi, Ali Sadeghi, Xiuying Wang, M. L. Chu, Manoj K. Jha, **P. B. Parajuli**, Daren Harmel, Yogesh Khare, and Jairo Hernandez. 2015. Uncertainty Considerations in Calibration and Validation of Hydrologic and Water Quality Models. *Transactions of the American Society of Agricultural and Biological Engineers*, 58(6): 1745-1762.
10. P. Daggupati, N. Pai, S. Ale, K. R. Douglas-Mankin, R. Zeckoski, J. Jeong, **P. B. Parajuli**, D. Saraswat, M. A. Youssef. 2015. A recommended calibration and validation strategy for hydrologic and water quality models. *Transactions of the American Society of Agricultural and Biological Engineers*, 58(6): 1705-1719.
11. Y. Yuan, Y. Khare, X. Wang, **P. B. Parajuli**, I. Kisekka, and S. Finsterle. 2015. Hydrologic and water quality models: sensitivity. *Transactions of the American Society of Agricultural and Biological Engineers*, 58(6): 1721-1744.
12. Priyantha Jayakody\*, **Parajuli P. B.**, and Brooks J. P. 2014. Assessing Climate Variability Impact on Thermotolerant Coliform Bacteria in Surface Water. *Human and Ecological Risk Assessment: An International Journal*, DOI:10.1080/10807039.2014.909188.
13. H. Kim\*, and **P. B. Parajuli**. 2014. Impacts of Reservoir Outflow Estimation Methods in SWAT Model Calibration. *Transactions of the American Society of Agricultural and Biological Engineers*, 57(4): 1029-1042.
14. Priyantha Jayakody\*, **Prem B. Parajuli**, and Thomas P. Cathcart. 2013. Impacts of Climate Variability on Water Quality with Best Management Practices in Subtropical Climate of USA. *Hydrological Processes*, DOI: 10.1002/hyp.10088.

15. Priyantha Jayakody\*, **Parajuli P. B.**, and Brooks J. P. 2013. Evaluating Spatial and Temporal Variability of Fecal Coliform Bacteria Loads at the Pelahatchie Watershed in Mississippi. *Human and Ecological Risk Assessment: An International Journal*, DOI:10.1080/10807039.2013.784155.
16. **Parajuli, P. B.**, Jayakody, P., Sassenrath, G. F., Ouyang, Y., and Pote, J. W. 2013. Assessing the impacts of crop-rotation and tillage on crop yields and sediment yield using a modeling approach. *Agricultural Water Management*, 119: 32-42.
17. H. Kim\*, **Parajuli P. B.**, and S. D. Filip To. 2013. Assessing Impacts of Bioenergy Crops and Climate Change on Hydrometeorology in the Yazoo River Basin, Mississippi. *Agricultural and Forest Meteorology*, 169: 61-73.
18. Priyantha Jayakody\*, **Prem B. Parajuli**, Gretchen Sassenrath, and Ying Ouyang. 2013. Relationships between water table & model simulated ET. *Ground Water Journal*, DOI: 10.1111/gwat.12053.
19. Ying Ouyang, **Prem B. Parajuli**, and Daniel A. Marion. 2013. Estimation of Water Quality Trends in a Yazoo River tributary using the duration curve and recurrence interval approach. *Water Science and Technology: Water Supply*, 13(2): 515-523.
20. Ying Ouyang, Jia-En Zhang, and **Prem Parajuli**. 2013. Characterization of shallow groundwater quality in the Lower St. Johns River Basin: a case study. *Environmental Science and Pollution Research*, DOI 10.1007/s11356-013-1864-x.
21. Kaiming.Liang, Jia-En Zhang, Li Fang, Benliang Zhao, Mingzhu Luo, **Prem B. Parajuli**, and Ying Ouyang. 2013. The biological control of *Pomacea canaliculata* population by rice-duck mutualism in paddy fields. *Biocontrol Science & Technology*, 23(6): 674-690.
22. **Parajuli, P. B.** 2012. Comparison of bio-energy feedstock production and impacts on water quality using a modeling approach. *Journal of Water Resource and Protection*, 4(9): 763-771.
23. H. Kim\*, and **Parajuli P. B.** 2012. Economic Analysis using SWAT-simulated Potential Switchgrass and Miscanthus Yields in the Yazoo River Basin. *Transactions of the American Society of Agricultural and Biological Engineers*, 55(6): 2123-2134.
24. H. Kim\*, **Parajuli P. B.**, F. Yu, E. P. Columbus, and W. D. Batchelor. 2012. Economic evaluation of syngas production: Model development and analysis. *Transactions of the American Society of Agricultural and Biological Engineers*, 55(3): 1033-1045.
25. **Parajuli, P. B.** 2012. Evaluation of spatial variability on hydrology and nutrient source loads at watershed scale using a modeling approach. *Hydrology Research*, 43 (6): 808-821.
26. **Parajuli, P. B.** 2011. Effects of Spatial Heterogeneity on Hydrologic Responses at Watershed Scale. *Journal of Environmental Hydrology*, 19 (18): 1-18.
27. **Parajuli, P. B.** 2010. Assessing sensitivity of hydrologic responses to climate change from forested watershed in Mississippi. *Hydrological Processes*, 24 (26): 3785-3797.
28. **Parajuli, P. B.**, Nathan O. Nelson, Lyle D. Frees, and Kyle R. Mankin. 2009. Comparison of AnnAGNPS and SWAT model simulation results in USDA-CEAP agricultural watersheds in south-central Kansas. *Hydrological Processes*, 23(5): 748-763.
29. **Parajuli, P. B.**, Mankin, K. R., and Barnes, P. L. 2009. Source specific fecal bacteria modeling using soil and water assessment tool model. *Bioresource Technology*, 100 (2): 953-963.
30. **Parajuli, P. B.**, Douglas-Mankin, K. R., Barnes, P. L., and Green, C. G. Rossi. 2009. Fecal bacteria source characterization and sensitivity analysis of SWAT 2005. *Transactions of the American Society of Agricultural and Biological Engineers*, 52(6): 1847-1858.
31. **Parajuli, P. B.**, Mankin, K. R., and Barnes, P. L. 2008. Applicability of Targeting Vegetative Filter Strips to Abate Fecal Bacteria and Sediment Yield using SWAT. *Agricultural Water Management*, 95 (10): 1189-1200.
32. **Parajuli, P. B.**, K. H. Yoo, D. A. Shannon, and W. J. Jeon. 2007. Application of WEPP and AGNPS to Pasture Management Practices in Alabama. *Journal of Environmental Hydrology*, 15 (5): 1-12.

\* Prem's graduate students/Post Doc.