

## REFEREED JOURNAL ARTICLES

### *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. **Prem B. Parajuli**, Avay Risal, Ying Ouyang, and Anita Thompson. 2022. Comparison of SWAT and MODIS Evapotranspiration data for multiple time-scales. Hydrology, 9(6): 103. Available at: <https://www.mdpi.com/2306-5338/9/6/103>
3. Dipesh Nepal\*, and **Prem B. Parajuli**. 2022. Assessment of best management practices on hydrology and sediment yield at watershed scale using SWAT. Agriculture, 12(4), 518. Available at: <https://www.mdpi.com/2077-0472/12/4/518>
4. Vivek Venishetty\*, and **Prem B. Parajuli**. 2022. Assessment of BMPs by estimating Hydrologic and Water Quality Outputs using SWAT in Yazoo River Watershed. Agriculture, 12(4), 477. Available at: <https://www.mdpi.com/2077-0472/12/4/477>
5. **Parajuli Prem B.** 2022. Climate Change Effects on Watershed Processes and Resilience. Modern Concepts and Developments in Agronomy, 10(3): 1026-1027. Available at: <https://crimsonpublishers.com/mcda/pdf/MCDA.000738.pdf>
6. Avay Risal\*, and **Prem B. Parajuli**. 2022. Evaluation of the impact of Best Management Practices on streamflow, sediment and nutrient yield at field and watershed scales. Water Resources Management, 36: 1093-1105. Available at: <https://link.springer.com/article/10.1007/s11269-022-03075-7>
7. Ying Ouyang, Johnny M. Grace, **Prem B. Parajuli**, and Peter Caldwell. 2022. Impacts of multiple hurricanes and tropical storms on watershed hydrological processes in Florida panhandle. Climate, 10(3), 42. Available at: <https://www.mdpi.com/2225-1154/10/3/42/htm>
8. Upadhyay, Pawan; Linhoss Anna; Kelble, Chris; Ashby, Steve; Murphy, Naja; **Parajuli, Prem B.** 2022. Applications of SWAT model for coastal watersheds: Review and recommendations. Journal of the ASABE, 65(2): 453-469. Available at: <https://elibrary.asabe.org/abstract.asp?aid=53161&t=3&dabs=Y&redir=&redirType=>
9. **Parajuli Prem B.**, and Avay Risal. 2021. Evaluation of climate change on streamflow, sediment, and nutrient load at watershed scale. Climate, 9 (11): 1-14. Available at: <https://www.mdpi.com/2225-1154/9/11/165>
10. Xiaojing Ni\*, and **Prem B. Parajuli**. 2021. Evaluating Hydrological Model Performances on Stream Flow Simulation with Agricultural Management. Journal of Environment and Earth Science, 11(1): 17-23. Available at: <https://www.iiste.org/Journals/index.php/JEES/article/viewFile/55280/57097>
11. Avay Risal\*, **Prem B. Parajuli**, and Ying Ouyang. 2021. Impact of BMPs on water quality: A case study in Big Sunflower River watershed, Mississippi. International Journal of River Basin Management. Available at: <https://doi.org/10.1080/15715124.2020.1870993>
12. Xiaojing Ni\*, **Prem B. Parajuli**, Ying Ouyang, Padmanava Dash, and Courtney Siegert. 2021. Assessing land use change impact on stream discharge and stream water quality in an agricultural watershed. Catena, 198 (March 2021), 105055. Available at: <https://doi.org/10.1016/j.catena.2020.105055>
13. Ying Ouyang, Gary Feng, Heidi Renninger, Theodor D. Leininger, **Prem Parajuli**, and Johnny M. Grace. 2021. A STELLA-based Model to Simultaneously Predict Hydrological Processes, N uptake and Biomass Production in a Eucalypt Plantation. Forests, 12(5): 515. Available at: <https://doi.org/10.3390/f12050515>

14. Avay Risal\*, **Prem B. Parajuli**, Padmanava Dash, Ying Ouyang, and Anna Linhoss. 2020. Sensitivity of hydrology and water quality to variation in Land use and Land cover data. *Agricultural Water Management*, 241 (1 November, 2020). Available at: <https://doi.org/10.1016/j.agwat.2020.106366>
15. Xiaojing Ni\*, **Prem B. Parajuli**, and Ying Ouyang. 2020. Assessing the impact of conservation practices on ground water using a surface-ground water modeling approach in Mississippi. *Water Resources Management*, 34: 1553-1566.
16. Hakkwan Kim\*, **Prem B. Parajuli**, and Kyo Suh. 2020. Impacts of bioenergy crop production and climate change on sediment management strategy at the watershed scale. *Desalination and Water Treatment* ([www.deswater.com](http://www.deswater.com), doi: 10.5004/dwt.2020.26116 (accepted).
17. Dakhlalla O. Abdullah\*, and **Prem B. Parajuli**. 2020. Sensitivity of Fecal Coliform Bacteria Transport to Climate Change in an Agricultural Watershed. *Journal of Water and Climate Change*. Available at: <https://doi.org/10.2166/wcc.2019.211>
18. Avay Risal\*, and **Prem B. Parajuli**. 2019. Quantification and simulation of nutrient sources at watershed scale in Mississippi. *Science of the Total Environment*, 670 (20 June, 2019): 633-643.
19. Abdullah O. Dakhlalla\*, and **Prem B. Parajuli**. 2019. Assessing model parameters sensitivity and uncertainty of streamflow, sediment, and nutrient transport using SWAT. *Information Processing in Agriculture*, 6(1): 61-72.
20. Ying Ouyang, Gary Feng, **Prem Parajuli**, Theodor Leininger, Yongshan Wan, and Johnie Jenkins. 2018. Assessment of Surface Water Quality in the Big Sunflower River Watershed of Mississippi Delta Using Nonparametric Analysis. *Water, Air, & Soil Pollution*, 229: 373.
21. Xiaojing Ni\*, and **Prem B. Parajuli**. 2018. Evaluation of the impacts of BMPs and tail water recovery system on surface and groundwater using satellite imagery and SWAT reservoir function. *Agricultural Water Management*, 210 (30): 78-87.
22. Ying Ouyang, **Prem B. Parajuli**, Gary Feng, Theodor D. Leininger, Yongshan Wan, and Padmanava Dash. 2018. Application of Climate Assessment Tool (CAT) to Estimate Climate Change Impacts on Water Quality for Local Watersheds. *Journal of Hydrology*, 563 (2018): 363-371.
23. **Parajuli P. B.**, Jayakody P., and Ouyang Y. 2017. Evaluation of using Remote Sensing Evapotranspiration data in SWAT. *Water Resources Management*, 32 (3): 985-996.
24. Ying Ouyang, **Prem B. Parajuli**, Yide Li, Theodor D. Leininger, and Gary Feng. 2017. Identify temporal trend of air temperature and its impact on forest stream flow in Lower Mississippi River Alluvial Valley using wavelet analysis. *Journal of Environmental Management*, 198 (2): 21-31.
25. **Parajuli P. B.**, P. Jayakody, G.F. Sassenrath, Y. Ouyang. 2016. Assessing the impacts of climate change and tillage practices on stream flow, crop and sediment yields from the Mississippi River Basin. *Agricultural Water Management*, 168 (2016): 112-124.
26. Dakhlalla, 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.
27. Deng, Y\* and **Parajuli Prem B.** 2016. Return of Investment and Profitability Analysis of Bio-Fuels Production Using a Modeling Approach. *Information Processing in Agriculture*, 3(2): 92-98. Most downloaded top 10 article published in 2016 as reported by the journal editor-in-chief.
28. Dakhlalla, 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.
29. 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.
30. 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.

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34. 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.
35. 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.
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39. Sunita Khanal\* and **Prem B. Parajuli**. 2014. Sensitivity Analysis and Evaluation of Forest Biomass Production Potential Using SWAT Model. *Journal of Sustainable Bioenergy Systems (JSBS)*, 4: 136-147.
40. **Parajuli P. B.**, Y. Deng, H. Kim, and F. Yu. 2014. Cost Analysis Model for Syngas Production Cost Evaluation using the Graphical User Interface. *Energy and Power*, 4(2): 35-40.
41. 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*, 20 (4): 1023-1041.
42. 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.
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44. **Parajuli Prem B.**, and Duffy S. 2013. Quantifying hydrologic and water quality responses to bio-energy crops in Town Creek watershed in Mississippi. *Journal of Sustainable Bioenergy Systems (JSBS)*, 3: 202 -208.
45. Priyantha Jayakody\*, **Prem B. Parajuli**, Gretchen Sassenrath, and Ying Ouyang. 2013. Relationships between Water Table & Model Simulated ET. *Ground Water Journal*, 52(2): 303-310.

46. **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 (2013): 32-42.
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48. Ying Ouyang, **Prem B. Parajuli**, and Daniel A. Marion. 2013. Estimation of surface water quality in a Yazoo River tributary using the duration curve and recurrence interval approach. *Water Science and Technology: Water Supply*, 13(2): 515-523.
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50. 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.
51. Ouyang, Ying; Leininger, Theodor D.; Hatten, Jeff; **Parajuli, Prem B.** 2013. A STELLA model to estimate soil CO<sub>2</sub> emissions from a short-rotation woody crop. *Water, Air, Soil Pollution*, 224 (1392): 1-12.
52. Sunita Khanal\* and **Prem B. Parajuli**. 2013. Evaluating the Impacts of Forest Clearcutting on Water and Sediment Yields Using SWAT in Mississippi. *Journal of Water Resource and Protection*, 5(4): 474-483.
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