

Water Quality Section Member Publications 6/24/25

2025

- Ghimire, G. R., Y. Liu, E. Parish, S. Gangrade, S. C. Kao, C. DeRolph, K. Maguire, and H. Jager. 2025. Integrated modeling driven evaluation of opportunities for climate-resilient perennial biomass crop plantings in flood-prone agricultural landscapes. *Journal of Flood Risk Management* 18(2):e70056. <https://doi.org/10.1111/jfr3.70056>
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- Kusnierz, P. C., B. Alford, R. Pierce, B. H. Tracy, H. I. Jager, and G. Lomnický. 2025. Section 303(d) of the Clean Water Act: What does it mean for fisheries? *Fisheries* 50(1):19–26. <https://doi.org/10.1093/fshmag/vuae004>

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- Childress, E. S., D. E. Demarest, J. E. B. Wofford, N. P. Hitt, and B. H. Letcher. 2024. Strong variation in brook trout trends across geology, elevation, and stream size in Shenandoah National Park. *Transactions of the American Fisheries Society* 153(2):250–263. <https://doi.org/10.1002/tafs.10460>
- Hughes, R.M., D. Chambers, D.A. DellaSala, J.R. Karr, S.C. Lubetkin, S. O’Neal, R.L. Vadas Jr., and C.A. Woody. 2024. Environmental impact assessments should include rigorous scientific peer review. *Water Biology & Security* 3(3):100269. <https://doi.org/10.1016/j.watbs.2024.100269>
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- Jager, H. I., K. Manning, J. N. Welch, F. Corsi, A. Miara, H. S. Yoon, R. A. McManamay, S. Kao, P. C. Kusnierz, S. Gangrade. Indicators of thermal alteration in US waters reveal patterns of climate risk at the energy-water nexus. *Ecological Indicators* 159:111755. <https://doi.org/10.1016/j.ecolind.2024.111755>
- Jenkins, J. A., R. O. Draugelis-Dale, N. M. Hoffpauir, B. A. Baudoin, C. Matkin, L. Driver, S. Hodges, and B. L. Brown. 2024. Flow cytometric assessments of metabolic activity in bacterial assemblages provide insight into ecosystem condition along the Buffalo National River, Arkansas. *Science of the Total Environment* 921:170462. <https://doi.org/10.1016/j.scitotenv.2024.170462>
- Kusnierz, P. C. 2024. Reducing total dissolved gas and gas bubble trauma in a regulated river. *Fishes* 9:427. <https://doi.org/10.3390/fishes9110427>
- Kusnierz, P. C., K. A. Bouwens, and A. L. Ransom. 2024. Predicting the likelihood of gas bubble trauma in fishes exposed to elevated total dissolved gas in the lower Clark Fork River, Idaho. *Transactions of the American Fisheries Society* 153(1):39–54. <https://doi.org/10.1002/tafs.10445>
- Kusnierz, P. C., and T. D. Tholl. 2024. Effects of Eurasian watermilfoil (*Myriophyllum spicatum*) on North American Fishes. *Journal of Aquatic Plant Management* 62:38–47. <https://doi.org/10.57257/JAPM-D-24-00001>
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- respond differently to flow cessation in intermittent Brazilian streams. *Austral Ecology* 49:e13558.
- Pilla, R. M., C. S. Faehndrich, A. M. Fortner, R. T. Jett, M. W. Jones, N. J. Jones, C. T. Hansen, H. I. Jager, B. Iftak, P. G. Matson, and N. A. Griffith. 2024. Shifts in carbon emissions versus sequestration from hydropower reservoirs in the southeastern United States. *Journal of Geophysical Research: Biogeosciences* 129:e2023JG007580. <https://doi.org/10.1029/2023JG007580>
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- Hughes, R. M., A. T. Herlihy, R. Comeleo, D. V. Peck, R. M. Mitchell, and S. G. Paulsen. 2023. Patterns in and predictors of stream and river macroinvertebrate genera and fish species richness across the conterminous USA. *Knowledge and Management of Aquatic Ecosystems* 424:19. <https://doi.org/10.1051/kmae/2023014>
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- Feio, M. J., R. M. Hughes, S. R. Q. Serra, S. J. Nichols, M. Callisto, D. R. Macedo, J. Harding,

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- A. G. Yates, O. N. Odume, M. J. Baek, N. Mercado-Silva, K. Nakamura, Y. Jae, K. Chen, I. Campbell, R. T. Martins, F. O. Arimoro, B. J. Kefford, N. Moya, R. Devi, U. N. Keke, M. Lintermans, C. B. M. Alves, W. Monk, T. Mori, P. S. Pompeu, W. Robinson, D. N. Shah, and M. Sueyoshi. 2022. Fish and macroinvertebrate assemblages reveal extensive degradation of the world's rivers. *Global Change Biology* 29(2):355–374. <https://doi.org/10.1111/gcb.16439>
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- Jager, H. I., M. R. Hilliard, M. H. Langholtz, R. A. Efroymson, C. C. Brandt, S. S. Nair, and J. A. Kreig. 2022. Ecosystem service benefits to water users from perennial biomass production. *Science of the Total Environment* 834:155255. <https://doi.org/10.1016/j.scitotenv.2022.155255>
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