

## J. William Louda RECENT PUBLICATIONS

- Ricca J.G., Petersen H.A., Grosvirt-Dramen A., Mayali X., Naylon S.H., Duersch B.G., Dufresne C.P., Weber P.K., Sonani R.R., Prevelige P.E., Hochbaum A.I., Merk V., Louda J.W., and Wang F. (2025) A New Family of Tubular Pilus from Harmful Algal Bloom Forming Cyanobacteria *Microcystis aeruginosa*. Nature Communication (Submitted-in final review) NCOMMS-25-02963A
- Louda, J.W. (2025) “Solar Marsh”: Photovoltaic Solar Power Generation collated with Constructed Nutrient Capture Wetlands. *Environmental Analysis & Ecology Studies*. 000804 **13(1)**: 1610-1613.  
DOI: 10:31031/EAES.2025.13.000804
- Grant, C.S. and Louda, J.W. (2025) Protein and carbohydrate contents related to varying light levels and Chlorophyll-a in selected fresh water and marine phytoplankton. *Aquatic Research*. **8(2)**:79-97.
- Ricca, J. G., Mayali, X., Qu, J., Poirier, G., Weber, P. K., Dufresne, C., Louda, J. W., and Terentis, A. C. (2024) Endogenous Production and Vibrational Analysis of Heavy-Isotope-Labeled Peptides from Cyanobacteria. *ChemBioChem* **25(6)**:e202400019.
- Louda J.W. (2023) Assessment of the microalgal communities of phytoplankton, epiphytes, and periphyton using pigment-based chemotaxonomy. *J. Ecol. Environ. Sci.* **1(3)**: 6pp. DOI: 33552/OJEES.2023.01.00051310.
- Breeden K.L and Louda J.W. (2023). *Microcystis aeruginosa* Needs a Microbiome in Order to Utilize Phosphorus from Organo-Phosphates. *Austin Environ Sci.* **8(2)**: 1096.
- Louda J.W. and Hayford J.F. (2023) Non-Point Sources (Septic Tanks) of Surface Water Nutrient Pollution: A Review and a Study of Taylor Creek, Okeechobee County, Florida. *Environment and Pollution*, **12(2)**: 19pp. (ISSN 1927-0909) <https://doi.org/10.5539/ep.v12n2p1>
- Louda J.W., Singh-White A.G., and Brooks A.M.L. (2021) Pigment-based chemotaxonomy of seagrass epiphyte communities; Variables to consider and uses in ecosystem assessment and monitoring. *Examines in Marine Biology & Oceanography* (EIMBO) ISSN: 2578-031X
- Duersch B.G., Powers M.O., Newman S., Ricca J.G., Bhadha J.H. and Louda J. W. (2021) Phosphorus retention within a relic agriculture ditch in a constructed wetland. *J. Environmental Quality* 2021: 1-13.

- Louda J.W., Duersch B.G., Osetek, J.T., Cintron C., Chaljub L., and Queiroz V. (2021). Phosphorus non-point pollution from equestrian wastes and the need for recycling. *Environment and Pollution*. **10(2)**: 21pp. (ISSN 1927-0909)
- Duersch B., Ricca, J., and Louda J.W. (2021) Bioavailability of organic phosphorus compounds with respect to the growth of *Microcystis aeruginosa*. *Florida Scientist*. **84(4)**: 282-302.
- Duersch B.G., Bhadha J.H., Root T. and Louda J.W. (2020) The role of rice (*Oryza Sativa* L.) in sequestering phosphorus compounds and trace elements: Speciation and dynamics. *Science of the Total Environment*.  
<https://doi.org/10.1016/j.scitotenv.2020.138366>
- \*Wachnika A., Browder J., Jackson T., Louda J. W., Kelbe C., Abdelrahan O., Stabenenu E., and Avila C. (2019) Hurricane Irma's Impact on Water Quality and Phytoplankton Communities in Biscayne Bay (Florida, U.S.A.). *Estuaries and Coasts*. **43**: 1217–1234.
- \*Chen W., Colon R., Louda J.W., del Rey F.R., Durham M and Rein K.S. (2018) Does brevetoxin (PbTx-2) influence the redox status and NPQ of *Karenia brevis*? *Harmful Algae*. **71**: 29-39.
- Louda J.W. (2017) Porphyrins. In: W.M. White (Ed.) Encyclopedia of Geochemistry AG 2017. Springer International. (DOI 10, 1007/978-3-319-39193-9\_190-1).
- Louda J.W., Grant C., Browne J. and Hagerthey S.E. (2015) Pigment-based chemotaxonomy and its application to Everglades periphyton. In: J. A. Entry, K. Jayachandran, A.D. Gottlieb and A. Ogram (Eds.) MICROBIOLOGY OF THE EVERGLADES ECOSYSTEM. Science Publishers. Chapter 13; pp. 287-347 plus appendices (pp.455-468) and color plate (p485). (ISBN 9781498711838)  
NOTE: This chapter was peer reviewed.