

2017 Wisconsin Sea Grant Papers

Excretion of Organic Matter and Nutrients From Invasive Quagga Mussels and Potential Impact on Carbon Dynamics in Lake Michigan DeVilbiss SE L Guo *Journal of Great Lakes Research* 43 79-89

Warmer Temperature Modifies Effects of Polybrominated Diphenyl Ethers on Hormone Profiles in Leopard Frog Tadpoles (*Lithobates pipiens*) Freitas MB CT Brown and WH Karasov *Environmental Toxicology and Chemistry*, Vol. 36, No. 1, pp. 120–127

Bridging Food Webs, Ecosystem Metabolism, and Biogeochemistry Using Ecological Stoichiometry Theory Welte N, M Striebel A J Ulseth WF Cross SE DeVilbiss PM Glibert L Guo AG Hirst J Hood JS Kominoski KL MacNeill AS Mehring JR Welter H Hillebrand *Frontiers in Microbiology* doi.org/10.3389/fmicb.2017.01298

How Are Coastal Benthos Fed? Waples, J, HA Bootsma and JV Klump *Limnology and Oceanography Letters* doi: 10.1002/lol2.10033

Analysis of a Sudden Bluff Failure Along the Southwest Lake Michigan Shoreline Zoet L and EJ Rawling *Journal of Great Lakes Research* doi: 10.1016/j.jglr.2017.09.002

Using Medically-Derived Iodine-131 to Track Sewage Effluent in the Laurentian Great Lakes Montenero MP, EK Dilbone, and JT Waples *Water Research* doi: 10.1016/j.watres.2017.07.022

The Removal of Particle-Reactive Radionuclides in Shallow Water: Bottom Scavenging Versus Particle Settling of Iodine-131 and Beryllium-7 Montenero MP, EK Dilbone and JT Waples *Journal of Environmental Radioactivity* doi: 10.1016/j.jenvrad.2017.06.013

Distribution and Differential Survival of Traditional and Alternative Indicators of Fecal Pollution at Freshwater Beaches Cloutier DD and SL McLellan *Applied and Environmental Microbiology* doi: 10.1128/AEM.02881-16

Comparing Compound-Specific and Bulk Stable Nitrogen Isotope Trophic Discrimination Factors Across Multiple Freshwater Fish Species and Diets Blanke CM, Y Chikaraishi, Y Takizawa, SA Steffan, PS Dharampal and MJ Vander Zanden *Canadian Journal of Fisheries & Aquatic Sciences* doi: 10.1139/cjfas2016-0420

Early Feeding of Round Goby (*Neogobius melanostomus*) Fry Olson DS and J Janssen *Journal of Great Lakes Research* doi: 10.1016/j.jglr.2017.04.006

Metabolic Network Analysis and Metatranscriptomics Reveal Auxotrophies and Nutrient Sources of the Cosmopolitan Freshwater Microbial Lineage acl Hamilton JJ, SL Garcia, BS Brown Brittany, BO Oyserman, F Moya-Flores, S Bertilsson, RR Malmstrom, KT Forest and KD McMahon *mSystems (American Society for Microbiology)* doi: 10.1128/msystems.00091-17

The Type IX Secretion System is Required for Virulence of the Fish Pathogen *Flavobacterium columnare* Li N, Y Zhu, BR LaFrentz, JP Evenhuis, DW Hunnicutt, RA Conrad, P Barbier, CW Gullstrand, JE Roets, JL Powers, SS Kulkarni, DH Erbes, JC Garcia, P Nie and MJ McBride *Applied and Environmental Microbiology* doi: 10.1128/AEM.01769-17

Mercury Risk in Poultry in the Wanshan Mercury Mine, China Yin, R, W Zhang, G Sun Z Feng, JP Hurley, L Yang, L Shang and X Feng *Environmental Pollution* doi: 10.1016/j.envpol.2017.07.027

Anomalous Mercury Enrichment in Early Cambrian Black Shales of South China: Mercury Isotopes Indicate a Seawater Source Yin, R, L Xu, RF Lepak, JP Hurley, B Lehmann, J Mao, X Feing nad R Hu *Chemical Geology* doi: 10.1016/j.chemgeo.2017.08.010

Mercury Isotope Constraints on the Source for Sediment-Hosted Lead-Zinc Deposits in the Changu Area, Southwestern China Xu, C, R Yin, J Peng, JP Hurley, RF Lepak, J Gao, X Feing, R Hu and X Bi *Mineralium Deposita* doi: 10.1007/s00126-017-0743-7

Stable Mercury Isotopes in Polished rice (*Oryza sativa* L.) and Hair From Rice Consumers Rothenberg, SE, R Yin, JP Hurley, DP Krabenhof, Y Ismawati, C Hong and A Donohue *Environmental Science and Technology* doi: 10.1021/acs.est.7b01039

Isotope Signatures of Mercury Contamination in Latest Permian Oceans, Grasby, SE, W Shen, R Yin, JD Gleason, JD Blum, RF Lepak, JP Hurley and B Beauchamp *Geology* doi: 10.1130/G38487.1

Microbial Communities and the Diverse Ecology of Fecal Indicators at Lake Michigan Beaches Cloutier DD, Ph.D. Thesis, University of Wisconsin-Milwaukee School of Freshwater Sciences, full dissertation available from ProQuest

Photodegradation of the Lampricides TFM and Niclosamide in Aqueous Environments: Direct, Indirect and Field Analysis McConville MB, Ph.D. Thesis, University of Wisconsin-Madison, full dissertation available from ProQuest

The Role of Phototaxis in the Initial Swim Bladder Inflation of Larval Yellow Perch (*Perca flavescens*) Suchocki CR, Master of Science, University of Wisconsin-Milwaukee School of Freshwater Sciences, full dissertation available from ProQuest.