

Publications

Contributions in peer-reviewed journals

In review (as at October 2020)

- [27] **Ledesma, J. L. J.**, Lupon, A., and Bernal, S. Hydrological responses to the extratropical cyclone *Gloria* in Font del Regàs and Fuirosos, two contrasting Mediterranean catchments.
- [26] Attermeyer, K., Casas-Ruiz, J. P., Fuß, T., Pastor, A., Cauvy-Fraunie S., Sheath, D., Nydahl, A. C., Doretto A., Portela, A. P., Doyle B. C., Simov, N., Guttman-Roberts, C., Niedrist, G. H., Timoner, X., Evtimova V. V., Barral-Fraga L., Basic T., Audet, J., Deininger A., Busst G., Fenoglio S., Catalán N., de Eyto E., Pilotto, F., Mor, J., Monteiro, J., Fletcher, D., Noss, C., Colls M., Nagler, M., Liu, L., González-Quijano C. R., Romero, F., Pansch, N., **Ledesma, J. L. J.**, Pegg, J., Klaus, M., Freixa, A., Herrero Ortega, S., Mendoza-Lera, C., Bednařic, A., Fonvielle, J. A., Gilbert, P., Kenderov, L. A., Rulík, M., Bodmer, P. Substantial carbon dioxide flux changes from day to night across European streams.
- [25] **Ledesma, J. L. J.**, Ruiz-Pérez, G., Lupon, A., Poblador, S., Futter, M. N., Sabater, F., and Bernal, S. Future changes in the Dominant Source Layer of riparian lateral water fluxes to Mediterranean streams.

2020

- [24] Hoffmeister, S., Murphy, K. R., Cascone, C., **Ledesma, J. L. J.**, and Köhler, S. J. (2020). Evaluating the accuracy of two *in situ* optical sensors to estimate DOC concentrations for drinking water production. *Environmental Science: Water Research & Technology*, 6, 2891, doi: 10.1039/d0ew00150c.
- [23] Morbidelli, R., García-Marín, A. P., Al Mamun, A., Atiqur, R. M., Ayuso-Muñoz, J. L., Bachir Taouti, M., Baranowski, P., Bellocchi, G., Sangüesa-Pool, C., Bennett, B., Oyunmunkh, B., Bonaccorso, B., Brocca, L., Caloiero, T., Caporali, E., Caracciolo, D., Casas-Castillo, M. C., Catalini, C. G., Chettih, M., Kamal Chowdhury, A. F. M., Chowdhury, R., Corradini, C., Custò, J., Dari, J., Diodato, N., Doesken, N., Dumitrescu, A., Estévez, J., Flammini, A., Fowler, H. J., Freni, G., Fusto, F., García-Barrón, L., Manesa, A., Goenster-Jordan, S., Hinson, S., Kanecka-Geszke, E., Kanti Kar, K., Kasperska-Wołowicz, W., Krabbi, M., Krzyszczak, J., Llabrés-Brustenga, A., **Ledesma, J. L. J.**, Liu, T., Lompi, M., Marsico, L., Mascaro, G., Moramarco, T., Newman, N., Orzan, A., Pampaloni, M., Pizarro-Tapia, R., Puentes Torres, A., Rashid, M., Rodríguez-Solà, R., Sepulveda Manzor, M., Siwek, K., Sousa, A., Timbadiya, P. V., Filippou, T., Vilcea, M. G., Viterbo, F., Yoo, C., Zeri, M., Zittis, G., and Saltalippi, C. (2020). The history of rainfall data time-resolution in a wide variety of geographical areas. *Journal of Hydrology*, 590, 125258, doi: 10.1016/j.jhydrol.2020.125258.
- [22] Xu, J., Morris, P. J., Liu, J., **Ledesma, J. L. J.**, and Holden, J. (2020). Increased dissolved organic carbon concentrations in peat-fed UK water supplies under future climate and sulfate deposition scenarios. *Water Resources Research*, 56, e2019WR025592, doi: 10.1029/2019WR025592.

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- [21] **Ledesma, J. L. J.**, Montori, A., Altava-Ortiz, V., Barrera-Escoda, A., Cunillera, J., and Àvila, A. (2019). Future hydrological constraints of the Montseny brook newt (*Calotriton arnoldi*) under changing climate and vegetation cover. *Ecology and Evolution*, 9, 9736-9747, doi: 10.1002/ece3.5506.
- [20] Deutscher, J., Kupec, P., Kučera, A., Urban, J., **Ledesma, J. L. J.**, and Futter, M. N. (2019). Ecohydrological consequences of tree removal in an urban park evaluated using open data, free software and a minimalist measuring campaign. *Science of the Total Environment*, 655, 1495-1504, doi: 10.1016/j.scitotenv.2018.11.277.
- [19] Lannergård, E., **Ledesma, J. L. J.**, Fölster, J., and Futter, M. N. (2019). An evaluation of high frequency turbidity as a proxy for riverine total phosphorus concentrations. *Science of the Total Environment*, 651, 103-113, doi: 10.1016/j.scitotenv.2018.09.127.

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- [18] Lupon, A., **Ledesma, J. L. J.**, and Bernal, S. (2018). Riparian evapotranspiration is essential to simulate stream flow dynamics and water budgets in a Mediterranean catchment, *Hydrology and Earth System Sciences*, 22, 4033-4045, doi: 10.5194/hess-22-4033-2018.
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- [16] **Ledesma, J. L. J.**, Kothawala, D. N., Bastviken, P., Maehder, S., Grabs, T., and Futter, M. N. (2018). Stream dissolved organic matter composition reflects the riparian zone, not upslope soils in boreal forest headwaters, *Water Resources Research*, 54, 3896-3912, doi: 10.1029/2017WR021793.
- [15] O'Driscoll, C., **Ledesma, J. L. J.**, Coll, J., Murnane, J. G., Nolan, P., Mockler, E., Futter, M. N., and Xiao, L. (2018). Minimal climate change impacts on natural organic matter forecasted for a potable water supply in Ireland, *Science of the Total Environment*, 630, 869-877, doi: 10.1016/j.scitotenv.2018.02.248.
- [14] Bussi G., Whitehead, P. G., Gutiérrez-Cánovas, C., **Ledesma, J. L. J.**, Ormerod, S. J., and Couture R. (2018). Modelling climate and land-use change impacts on nitrate and aquatic ecosystems in the River Wye (Wales). *Science of the Total Environment*, 627, 733-743, doi: 10.1016/j.scitotenv.2018.01.295.
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- [10] **Ledesma, J. L. J.**, Futter, M. N., Blackburn, M., Lidman, F., Grabs, T., Sponseller, R. A., Laudon, H., Bishop, K. H., and Köhler, S. J. (2018). Towards an improved conceptualization of riparian zones in boreal forest headwaters. *Ecosystems*, 21, 297–315, doi: 10.1007/s10021-017-0149-5.
- [9] Blackburn, M., **Ledesma, J. L. J.**, Näsholm, T., Laudon, H., and Sponseller, R. A. (2017). Evaluating hillslope and riparian contributions to dissolved nitrogen (N) export from a boreal forest catchment, *Journal of Geophysical Research – Biogeosciences*, 122, 324-339, doi: 10.1002/2016JG003535.

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