

Liste des publications 2019 de l'Observatoire du SNO-Karst

Barbel-Périneau, A., Barbiero, L., Danquigny, C., Emblanch, C., Mazzilli, N., Babic, M., Simler, R. and Valles, V.: Karst flow processes explored through analysis of long-term unsaturated-zone discharge hydrochemistry: a 10-year study in Rustrel, France, *Hydrogeology Journal*, 27(5), 1711–1723, <https://doi.org/10.1007/s10040-019-01965-6>, 2019.

Bicalho, C. C., Batiot-Guilhe, C., Taupin, J. D., Patris, N., Van Exter, S. and Jourde, H.: A conceptual model for groundwater circulation using isotopes and geochemical tracers coupled with hydrodynamics: A case study of the Lez karst system, France, *Chemical Geology*, 528, 118442, <https://doi.org/10.1016/j.chemgeo.2017.08.014>, 2019.

Chen, N., Valdes, D., Marlin, C., Blanchoud, H., Guerin, R., Rouelle, M. and Ribstein, P.: Water, nitrate and atrazine transfer through the unsaturated zone of the Chalk aquifer in northern France, *Science of The Total Environment*, 652, 927–938, <https://doi.org/10.1016/j.scitotenv.2018.10.286>, 2019.

Cholet, C., Steinmann, M., Charlier, J.-B. and Denimal, S.: Characterizing fluxes of trace metals related to dissolved and suspended matter during a storm event: application to a karst aquifer using trace metals and rare earth elements as provenance indicators, *Hydrogeology Journal*, 27(1), 305–319, <https://doi.org/10.1007/s10040-018-1859-2>, 2019.

CLAUDE, C., COCKENPOT, S., Arfib, B., Meulé, S. and RADAKOVITCH, O.: Accuracy and sensitivity of radium mass balances in assessing karstic submarine groundwater discharge in the stratified Calanque of Port-Miou (Mediterranean Sea), *Journal of Hydrology*, 578, 124034, <https://doi.org/10.1016/j.jhydrol.2019.124034>, 2019.

Clauzon, V.: Caractérisation in situ multi-échelles des transferts de fluide en zone de faille en milieu carbonaté, PhD Thesis <http://www.theses.fr/2019MONTG075/document>, 2019.

Dal soglio, L.: Hétérogénéité géologique, spéléogénèse et hydrodynamique du karst : du concept à la modélisation numérique, PhD Thesis <http://www.theses.fr/2019AVIG0057/document>, 2019.

Dausse, A., Léonardi, V. and Jourde, H.: Hydraulic characterization and identification of flow-bearing structures based on multi-scale investigations applied to the Lez karst aquifer, *Journal of Hydrology: Regional Studies*, 26, 100627, <https://doi.org/10.1016/j.ejrh.2019.100627>, 2019.

Dufoyer, A.: Signification physique et hydrologique de l'information spectrale contenue dans le signal hydrodynamique à l'exutoire des systèmes karstiques., PhD Thesis <http://www.theses.fr/2019NORMR147/document>, 2019.

Dufoyer, A., Massei, N., Lecoq, N., Marechal, J.-C., Thiery, D., Pennequin, D. and David, P.-Y.: Links between karst hydrogeological properties and statistical characteristics of spring discharge time series: a theoretical study, *Environmental Earth Sciences*, 78(14), 400, <https://doi.org/10.1007/s12665-019-8411-0>, 2019.

Lorette, G.: Fonctionnement et vulnérabilité d'un système karstique multicouche à partir d'une approche multi-traceurs et d'un suivi haute-résolution : application aux Sources du Toulon à Périgueux (Dordogne, France), PhD Thesis <http://www.theses.fr/2019BORD0116/document>, 2019.

Luu, L.-H., Noury, G., Benseghier, Z. and Philippe, P.: Hydro-mechanical modeling of sinkhole occurrence processes in covered karst terrains during a flood, *Engineering Geology*, 260, 105249, <https://doi.org/10.1016/j.enggeo.2019.105249>, 2019.

Mazzilli, N., Guinot, V., Jourde, H., Lecoq, N., Labat, D., Arfib, B., Baudement, C., Danquigny, C., Dal Soglio, L. and Bertin, D.: KarstMod: A modelling platform for rainfall - discharge analysis and modelling dedicated to karst systems, *Environmental Modelling and Software*, 122, 103927, <https://doi.org/10.1016/j.envsoft.2017.03.015>, 2019.

Ollivier, C.: Caractérisation et spatialisation de la recharge des hydrosystèmes karstiques : Application à l'aquifère de Fontaine de Vaucluse, France, PhD Thesis <http://www.theses.fr/2019AVIG0056/document>, 2019.

Ollivier, C., Lecomte, Y., Chalikakis, K., Mazzilli, N., Danquigny, C. and EMBLANCH, christophe: A QGIS Plugin Based on the PaPRIKa Method for Karst Aquifer Vulnerability Mapping, *Groundwater*, 57(2), 201–204, <https://doi.org/10.1111/gwat.12855>, 2019a.

Ollivier, C., CHALIKAKIS, K., Mazzilli, N., Kazakis, N., Lecomte, Y., Danquigny, C. and EMBLANCH, christophe: Challenges and Limitations of Karst Aquifer Vulnerability Mapping Based on the PaPRIKa Method-Application to a Large European Karst Aquifer (Fontaine de Vaucluse, France), *Environments*, 6(3), <https://doi.org/10.3390/environments6030039>, 2019b.

Ollivier, C., Mazzilli, N., Olioso, A., Chalikakis, K., Carrière, S., Danquigny, C. and EMBLANCH, christophe: Karst recharge-discharge semi distributed model to assess spatial variability of flows, *Science of the Total Environment*, 703, 134368, <https://doi.org/10.1016/j.scitotenv.2019.134368>, 2019c.

Peyraube, N., Lastennet, R., Denis, A., Minvielle, S., Houillon, N., Lorette, G., Malaurent, P., Denimal, S., Bertrand, C., Binet, S., Emblanch, C., Naessens, F., Asmael, N. and Villanueva, J. D.: Sic–Abacus: An in–situ tool for estimating Sic and Pco2 in the context of carbonate karst, *Journal of Hydrology*, 568, 891–903, <https://doi.org/10.1016/j.jhydrol.2018.11.042>, 2019.

Sivelle, V.: Couplage d'approches conceptuelles, systémiques et distribuées pour l'interprétation de traçages artificiels en domaine karstique : implications pour la détermination de la structure interne des aquifères karstiques, PhD Thesis <http://www.theses.fr/2019TOU30180/document>, 2019.

Sivelle, V. and Labat, D.: Short-term variations in tracer-test responses in a highly karstified watershed, *Hydrogeology Journal*, 27(6), 2061–2075, <https://doi.org/10.1007/s10040-019-01968-3>, 2019.

Sivelle, V., Labat, D., Mazzilli, N., Massei, N. and Jourde, H.: Dynamics of the Flow Exchanges between Matrix and Conduits in Karstified Watersheds at Multiple Temporal Scales, *Water*, 11(3), 569, <https://doi.org/10.3390/w11030569>, 2019a.

Sivelle, V., Guillaume, L., Tremoulet, J., Bardeau, M. and Labat, D.: Interprétation de traçages artificiels en domaine karstique par approche de type fonction de transfert : Application à l'hydrosystème karstique de l'Ousse (Lot, France), *Géologues*, (202), 73–79, 2019b.

Zhao, Z., Wang, X., Hao, Y., Wang, T., Jardani, A., Jourde, H., Yeh, T. J. and Zhang, M.: Groundwater response to tidal fluctuations in a leaky confined coastal aquifer with a finite length, *Hydrological Processes*, 33(19), 2551–2560, <https://doi.org/10.1002/hyp.13529>, 2019.