# Publication list

#### Konrad Miotliński

### August 2025

## Articles

- [FMK08] Monika Fabiańska, Konrad Miotliński, and Andrzej Kowalczyk. "Geochemical features of re-deposited organic matter occurring in fluvioglacial sediments in the Racibórz region (Poland): A case study". In: Chemical Geology 253.3-4 (2008), pp. 151–161.
- [Mio08a] Konrad Miotliński. "Coupled reactive transport modeling of redox processes in a nitrate-polluted sandy aquifer". In: Aquatic Geochemistry 14.2 (2008), pp. 117–131.
- [Mio+11] K. Miotlinski et al. "Recovery of injected freshwater to differentiate fracture flow in a low-permeability brackish aquifer". In: *Journal of Hydrology* 409.1-2 (2011). ISSN: 00221694. DOI: 10.1016/j.jhydrol.2011.08.025.
- [Pag+11b] D. Page et al. "Water quality requirements for sustaining aquifer storage and recovery operations in a low permeability fractured rock aquifer". In: *Journal of Environmental Management* 92.10 (2011). ISSN: 03014797. DOI: 10.1016/j.jenvman.2011.04.005.
- [PKM11] Declan W. Page, Stuart J. Khan, and Konrad Miotliński. "A systematic approach to determine herbicide removals in constructed wetlands using time integrated passive samplers". In: Journal of Water Reuse and Desalination 1.1 (2011), p. 11. URL: http://www.iwaponline.com/jwrd/001/jwrd0010011.htm.
- [Van+11c] J. L. Vanderzalm et al. "Arsenic mobility and impact on recovered water quality during aquifer storage and recovery using reclaimed water in a carbonate aquifer". In: Applied Geochemistry 26.12 (2011), pp. 1946–1955.
- [MPK12] Konrad Miotliński, Dieke Postma, and Andrzej Kowalczyk. "Variable infiltration and river flooding resulting in changing ground-water quality A case study from Central Europe". In: Journal of Hydrology 414-415 (2012), pp. 211–219.
- [Pag+13b] Declan Page et al. "Human health risks of untreated groundwater third pipe supplies for non-potable domestic applications". In: *Urban Water Journal* 11.6 (2013), pp. 461–466.

- [Mio+14] K. Miotliński et al. "Recovery of injected freshwater from a brackish aquifer with a multiwell system". In: *Groundwater* 52.4 (2014). ISSN: 17456584. DOI: 10.1111/gwat.12089.
- [Pag+14a] D. Page et al. "Determining treatment requirements for turbid river water to avoid clogging of aquifer storage and recovery wells in siliceous alluvium". In: Water Research 66 (2014). ISSN: 18792448.

  DOI: 10.1016/j.watres.2014.08.018.
- [Pag+14b] D. Page et al. "Environmental monitoring of selected pesticides and organic chemicals in urban stormwater recycling systems using passive sampling techniques". In: Journal of Contaminant Hydrology 158 (2014). ISSN: 01697722. DOI: 10.1016/j.jconhyd.2014.01.004.
- [MD15] K Miotliński and P J Dillon. "Relative Recovery of Thermal Energy and Fresh Water in Aquifer Storage and Recovery Systems."
  In: Ground water 1 (2015), pp. 877–884. ISSN: 1745-6584. DOI: 10.1111/gwat.12286. URL: http://www.ncbi.nlm.nih.gov/pubmed/25399802.
- [Pag+15] D. Page et al. "Microbiological risks of recycling urban stormwater via aquifers for various uses in Adelaide, Australia". In: *Environmental Earth Sciences* 73.12 (2015). ISSN: 18666299. DOI: 10.1007/s12665-014-3466-4.
- [Pag+16] Declan Page et al. "Corrigendum to "Determining treatment requirements for turbid river water to avoid clogging of aquifer storage and recovery wells in siliceous alluvium" [Water Res. 66 (2014) 99-110]". In: Water research 101 (2016), pp. 640-641. ISSN: 0043-1354. DOI: 10.1016/j.watres.2016.06.020. URL: https://doi.org/10.1016/j.watres.2016.06.020.
- [Bar+17] Karen E. Barry et al. "Assessing the impact of recycled water quality and clogging on infiltration rates at a pioneering Soil Aquifer Treatment (SAT) site in Alice Springs, Northern Territory (NT), Australia". In: Water (Switzerland) 9.3 (2017). ISSN: 20734441. DOI: 10.3390/w9030179.
- [Gas+17] D. Gastmans et al. "Controls over spatial and seasonal variations on isotopic composition of the precipitation along the central and eastern portion of Brazil". In: *Isotopes in Environmental and Health Studies* 53.5 (2017). ISSN: 14772639. DOI: 10.1080/10256016. 2017.1305376.
- [Ram+18] Fabrizio Rama et al. "Recharge estimation from discrete water-table datasets in a coastal shallow aquifer in a humid subtropical climate". In: *Hydrogeology Journal* 26.6 (2018), pp. 1887–1902. ISSN: 1431-2174. URL: http://link.springer.com/10.1007/s10040-018-1742-1.

- [Ram+19] Fabrizio Rama et al. "Flow field dynamics and high ethanol content in gasohol blends enhance BTEX migration and biodegradation in groundwater". In: *Journal of Contaminant Hydrology* 222 (2019), pp. 17–30. ISSN: 01697722. DOI: 10.1016/j.jconhyd.2019.01.003.
- [Mal+20] Dirk Mallants et al. "A Generic Method for Predicting Environmental Concentrations of Hydraulic Fracturing Chemicals in Soil and Shallow Groundwater". In: Water 12.4 (2020). ISSN: 2073-4441. DOI: 10.3390/w12040941. URL: https://www.mdpi.com/2073-4441/12/4/941.
- [RM20] Fabrizio Rama and Konrad Miotliński. "Multiple-step numerical modeling to assist aquifer characterization: a case study from the south of Brazil". In: *Hydrogeology Journal* 28 (2020), pp. 2747–2763.
- [Sre+20] J. Sreekanth et al. "Regional-scale modelling and predictive uncertainty analysis of cumulative groundwater impacts from coal seam gas and coal mining developments". In: *Hydrogeology Journal* 28 (Feb. 2020), pp. 193–218. ISSN: 1435-0157. DOI: 10.1007/s10040-019-02087-9. URL: https://doi.org/10.1007/s10040-019-02087-9.
- [MP21] Konrad Miotliński and Luk J.M. Peeters. "Quantification of Carbon Cycling in a Large Aquifer Using Reactive Transport Modelling". In: Frontiers in Water 3 (Sept. 2021). ISSN: 26249375. DOI: 10.3389/frwa.2021.714075.
- [Mio+23b] Konrad Miotliński et al. "Simulated temperatures of forest fires affect water solubility in soil and litter". In: *Ecological Indicators* 150 (June 2023), p. 110236. ISSN: 1470160X. DOI: 10.1016/j.ecolind.2023.110236. URL: https://www.sciencedirect.com/science/article/pii/S1470160X23003783.
- [Tsh+23] Kuenzang Tshering et al. "Effect of fire on characteristics of dissolved organic matter in forested catchments in the Mediterranean biome: A review". In: Water Research 230 (Feb. 2023). ISSN: 18792448.

  DOI: 10.1016/j.watres.2022.119490.
- [Per+24] Simone Pereira et al. "Numerical modeling applications for the evaluation of the past and future scenarios of groundwater use in an urbanized complex karst aquifer in the city of Sete Lagoas, State of Minas Gerais, Brazil". In: Groundwater for Sustainable Development 25 (2024), p. 101089. ISSN: 2352-801X. DOI: https://doi.org/10.1016/j.gsd.2024.101089. URL: https://www.sciencedirect.com/science/article/pii/S2352801X24000122.

#### **Books**

[KM12] W Klopmann and Konrad Miotliński. "Use of groundwater models for prediction and optimisation of the behaviour of MAR sites". In: Water Reclamation Technologies for Safe Managed Aquifer Recharge. Ed. by K. Kazner, Th. Wintgens, and P. Dillon. IWA Publishing, 2012.

#### Theses

- [Mio02] Konrad Miotliński. "The occurence of potentially therapeutic ground-water in the Upper Silesian Coal Basin". In Polish. MA thesis. University of Silesia, 2002. 112 pp.
- [Mio08b] Konrad Miotliński. "Hydrogeochemical evolution in the buried valley in the Racibórz area". In English. PhD thesis. University of Silesia, 2008. 162 pp. URL: https://integro.ciniba.edu.pl/integro/site/recorddetail/0193006708834.

# Conference proceedings

- [MK09] K. Miotliński and A. Kowalczyk. "Interactions between the Pleistocene aquifer and the Oder River in the Racibórz area, Southern Poland". In: International Interdisciplinary Conference on Predictions for Hydrology, Ecology, and Water Resources Management. Prague, Czech Republic: International Interdisciplinary Conference on Predictions for Hydrology, Ecology, Water Resources Management: Using Data, and Models to Benefit Society, 15–18 September 2008, 2009.
- [Mio+09b] K. Miotliński et al. "Soil aquifer treatment in Alice Springs initial operation results". In: IWA Proceedings. Brisbane, QLD: Proceedings IWA Reuse09 Symposium, 20-25 September 2009, 2009.
- [Dil+10b] P. Dillon et al. "Managed Aquifer Recharge Guidelines and Australian Compendium of Case Study Risk Assessment". In: *Geoscience Australia Proceedings*. Sydney, NSW: Water Reuse and Desalination: Water Scarcity Solutions for the 21st Century, 2010.
- [Dil+10c] P. Dillon et al. "Managed aquifer recharge: a novel adaptation to climate change via water recycling". In: *Geoscience Australia Proceedings*. Canberra, ACT: Groundwater 2010, 2010.
- [Dil+10d] P. Dillon et al. "Use of detention storage and managed aquifer recharge to buffer water quality variability for drinking supplies".
   In: IAH Proceedings. Cracow, Poland: XXXVIII International Association of Hydrogeologists Congress, 12-17 September 2010. IAH-AGH University of Science and Technology, 2010.

- [Lev+10] K. Levett et al. "Challenges of urban stormwater reuse via low permeability fractured rock aquifer in Victoria". In: *Stormwater proceedings*. Sydney, NSW: Stormwater Industry Association National Conference, 8-12 November 2010, 2010.
- [Mio+10a] K. Miotliński et al. "A coupled groundwater flow, solute and heat transport model to assist the operation of an Aquifer Storage Transfer and Recovery facility (Salisbury, South Australia)". In: Geoscience Australia Proceedings. Canberra, ACT: Groundwater 2010, 2010.
- [Mio+10c] K. Miotliński et al. "Aquifer storage and recovery (ASR) in a low-permeability fractured media". In: ISMAR Proceedings. Abu Dhabi, UAE: 7th Annual International Symposium on Managed Aquifer Recharge, IAH/ASCE, 2010.
- [Mio+10d] K. Miotliński et al. "The use of coupled groundwater flow, solute and heat transport model to facilitate the Aquifer Storage Transfer and Recovery". In: IAH Proceedings. Cracow, Poland: XXXVIII International Association of Hydrogeologists Congress, 12-17 September 2010. IAH-AGH University of Science and Technology, 2010, pp. 2321–2325.
- [Van+10a] J. Vanderzalm et al. "Assessing the risks of recycling urban stormwater for potable supply via an aquifer". In: Geoscience Australia Proceedings. Sydney, NSW: Stormwater Industry Association National Conference, 8-12 November 2010, 2010.
- [Van+10b] J. Vanderzalm et al. "Water recycling via the aquifer: benefits and hazards". In: *Geoscience Australia Proceedings*. Canberra, ACT: Groundwater 2010, 2010.
- [Pag+11c] D.W. Page et al. "Water recycling via aquifers: Applying the Australian managed aquifer recharge guidelines for water recycling via aquifers". In: *OzWater Proceedings*. Adelaide: OzWater Congress, 2011, pp. 83–86.
- [Van+11a] J. Vanderzalm et al. "Using ASTR to harvest urban stormwater for drinking: Assessing the safety of the aquifer storage transfer and recovery project at Parafield, SA". In: OzWater Proceedings. Adelaide: OzWater Congress, 2011, pp. 75–78.
- [Van+11b] J. Vanderzalm et al. "Water recycling via aquifers: Applying the Australian managed aquifer recharge guidelines for water recycling via aquifers". In: OzWater Proceedings. Adelaide: OzWater Congress, 2011, pp. 79–82.
- [Van+14] J. Vanderzalm et al. "Managed aquifer recharge for water recycling". In: Brisbane: OzWater Congress, 2014.
- [Mal+15] D. Mallants et al. "Environmental risks associated with unconventional gas extraction: an Australian perspective". In: Vienna: EGU General Assembly 2018 HS8.1.4, 2015.

- [Bar+16] K. Barry et al. "Assessing infiltration rates and clogging impacts during recycled water managed aquifer recharge in Floreat and AliceSprings, Australia". In: *ISMAR proceedings*. Mexico City: International Symposium on Managed Aquifer Recharge, 2016.
- [Sch+18] W. Schmid et al. "Assessment of the dilution of coal seam gas chemicals in soil and shallow groundwater migration pathways linked to surface-operations". In: *EGU proceedings*. Vienna: EGU General Assembly 2018 HS8.1.4, 2018, pp. 12701–12703.
- [Mio+23a] Konrad Miotliński et al. "Predicting Impact of fires on Water Quality". In: Modelling, Simulation Society of Australia, and New Zealand Inc, 2023. ISBN: 978-0-9872143-0-0.