

List of Publications (Markus Flury)

The H -index of my refereed journal articles as of July 2020 is $H = 44/54$ (Web of Science/Google Scholar).
The total number of citations of my articles is 6,300/10,400 (Web of Science/Google Scholar).

The H -index uses the highest number of papers a scientist has published that have each received at least that number of citations.

Journal	Number of Articles	2019 Impact Factor
Multidisciplinary Science		
Proceedings of the National Academy Sciences USA	1	9.412
PLOS One	1	2.740
Soil Physics, Soil Science, Hydrology		
Water Resources Research	18	4.309
Soil Science Society of America Journal	10	2.311
Science of the Total Environment	9	6.551
Vadose Zone Journal	6	2.504
Journal of Contaminant Hydrology	5	4.601
Soil and Tillage Research	5	4.662
Journal of Environmental Quality	4	2.142
Geoderma	4	4.848
Applied Geochemistry	3	2.903
Journal of Hydrology	2	4.500
Advances in Agronomy	1	5.279
Advances in Water Resources	1	4.016
Agricultural and Forest Meteorology	1	4.651
Agricultural Water Management	1	4.021
Agriculture Ecosystems and Environment	1	4.241
Applied Engineering in Agriculture	1	0.973
Applied and Environmental Microbiology	1	4.016
Critical Reviews in Environmental Science Technology	1	8.302
Environmental Pollution	1	6.792
European Journal of Soil Science	1	3.742
Hydrological Processes	1	3.256
International Journal of Environ. Research	1	2.007
Journal of Plant Diseases and Protection	1	1.526
Pedosphere	1	3.736
Reviews of Environmental Contamination and Toxicology	1	5.767
Reviews of Geophysics	1	21.449
Seed Science Research	1	1.681
Transactions of the ASABE	1	1.156
Water Environment Research	1	1.151
Water Research	1	9.130
Colloid Science, Colloid and Surface Chemistry		
Environmental Science and Technology	14	7.864
Colloids and Surfaces Physicochemical Aspects	5	3.990
Langmuir	4	3.557
Journal of Colloid and Interface Science	4	7.489
Clays and Clay Minerals	2	1.507
Microporous and Mesoporous Materials	2	4.551
Environmental Science: Nano	1	7.683
Polymer Testing	1	3.275
ACS Omega	1	2.870

1. Thesis and Dissertation

Flury, M., *Transport of bromide and chloride in a sandy and a loamy soil*, Ph.D. Diss. No. 10185, Swiss Federal Institute of Technology, ETH Zurich, 1993.

Flury, M., *Interaction between microclimate and soils in the alpine region of the Swiss National Park*, Masters Thesis, University of Zurich, 1988. (in German)

2. Refereed Journal Articles

2021

122. Sintim, H. Y., S. Bandopadhyay, M. E. English, A. I. Bary, J. E. Lique y Gonzalez, J. M. DeBruyn, S. M. Schaeffer, C. A. Miles, and M. Flury, Four years of continuous use of biodegradable plastic mulch: Effects on soil and groundwater quality, *Geoderma*, 381, 114665, doi.org/10.1016/j.geoderma.2020.114665, 2021. ([doi:10.1016/j.geoderma.2020.114665](https://doi.org/10.1016/j.geoderma.2020.114665))

2020

121. Taylor, S. E., C. I. Pearce, K. A. Sanguinet, D. Hu, W. B. Chrisler, Y.-M. Kim, Z. Wang, and M. Flury, Polystyrene nano- and microplastic accumulation at Arabidopsis and wheat root cap cells, but no evidence for uptake into roots, *Environ. Sci.: Nano*, 7, 1942–1953, 2020. (doi.org/10.1039/D0EN00309C)

120. Kessenich, B. L., N. Pokhrel, J. K. Kibue, E. Nakouzi, M. Flury, L. Maibaum, and J. J. D. Yoreo, Negatively-charged lipids exhibit negligible effects on the water repellency of montmorillonite films, *ACS Omega*, 5, 12154–12161, 2020. (doi.org/10.1021/acsomega.0c00499)

119. Sintim, H. Y., A. I. Bary, D. G. Hayes, L. C. Wadsworth, M. B. Anunciado, M. E. English, S. Bandopadhyay, S. M. Schaeffer, J. M. DeBruyn, C. A. Miles, J. P. Reganold, and M. Flury, In situ degradation of biodegradable plastic mulch films in compost and agricultural soil, *Sci. Total Environ.*, 727, 138668, doi.org/10.1016/j.scitotenv.2020.138668, 2020. (doi.org/10.1016/j.scitotenv.2020.138668)

118. Yang, W., J. Shang, B. Li, and M. Flury, Surface and colloid properties of biochar and implications for transport in porous media, *Critical Rev. Environ. Sci. Technol.*, 50, 2484–2522, 2020. (doi.org/10.1080/10643389.2019.16993819)

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116. Ghimire, S., M. Flury, E. J. Scheenstra, and C. A. Miles, Sampling and degradation of biodegradable plastic and paper mulches in field after tillage incorporation, *Sci. Total Environ.*, 703, 135577, doi.org/10.1016/j.scitotenv.2019.135577, 2020. (doi.org/10.1016/j.scitotenv.2019.135577)

115. Zhang, H., M. Flury, C. Miles, H. Liu, and L. DeVetter, Soil-biodegradable plastic mulches undergo minimal in-soil degradation in a perennial raspberry system after 18 months, *Horticulturae*, 6, 47, doi:10.3390/horticulturae6030047, 2020. ([doi:10.3390/horticulturae6030047](https://doi.org/10.3390/horticulturae6030047))

2019

114. Kessenich, B. L., N. Pokhrel, E. Nakouzi, C. J. Newcomb, M. Flury, L. Maibaum, and J. J. D. Yoreo, Connecting wettability, topography, and chemistry in a simple lipid-montmorillonite system, *J. Colloid Interface Sci.*, 55, 498–508, 2019. (doi.org/10.1016/j.jcis.2019.07.075)

113. Shahzad, K., A. I. Bary, D. P. Collins, L. Chalker-Scott, M. Abid, H. Y. Sintim, and M. Flury, Carbon dioxide and oxygen exchange at the soil-atmosphere boundary as affected by various mulch materials, *Soil Till. Res.*, 194, 104335, doi.org/10.1016/j.still.2019.104335, 2019. (doi.org/10.1016/j.still.2019.104335)

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111. Sintim, H. Y., S. Bandopadhyay, M. E. English, A. I. Bary, J. M. DeBruyn, S. M. Schaeffer, C. A. Miles, J. P. Reganold, and M. Flury, Impacts of biodegradable plastic mulches on soil health, *Agric. Ecosystems Environ.*, 273, 36–49, 2019. (doi.org/10.1016/j.agee.2018.12.002)
110. Yang, W., J. Shang, P. Sharma, B. Li, K. Liu, and M. Flury, Colloidal stability and aggregation kinetics of biochar colloids: Effects of pyrolysis temperature, cation type, and humic acid concentrations, *Sci. Total Environ.*, 658, 1306–1315, 2019. (doi.org/10.1016/j.scitotenv.2018.12.269)
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107. Zhang, L., H. Y. Sintim, A. I. Bary, D. G. Hayes, L. C. Wadsworth, M. B. Anunciado, and M. Flury, Interaction of *Lumbricus terrestris* with macroscopic polyethylene and biodegradable plastic mulch, *Sci. Total Environ.*, 635, 1600–1608, 2018. (doi.org/10.1016/j.scitotenv.2018.04.054)
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104. Flury, M., and S. Aramrak, Role of air-water interfaces in colloid transport in porous media: A review, *Water Resour. Res.*, 53, 5247–5275, 2017. (dx.doi.org/10.1002/2017WR020597)
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92. Dickson, J. O., J. B. Harsh, M. Flury, W. W. Lukens, and E. M. Pierce, Competitive incorporation of perrhenate and nitrate into sodalite, *Environ. Sci. Technol.*, 48, 12851–12857, 2014. ([dx.doi.org/10.1021/es503156v](https://doi.org/10.1021/es503156v))

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