



Eawag covering Environmental Science & Technology

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Topics: Pollutants | Organisation & Staff

For the second time within short time, Eawag research made it to the cover of the journal "Environmental Science & Technology". In April, Eawag researcher Urs von Gunten and his team's paper on understanding the ozonation of phenols was selected for the ACS Editor's Choice Article and put on the cover of the journal.

The scientists of the Water Resources and Drinking Water department investigated the widespread formation of potentially toxic benzoquinones, catechols, and cyclohexadienones during ozonation of waters containing phenol and para-substituted phenols. In the same edition, two Eawag publications were furthermore awarded with first and second runner up in the category "Feature" for ES&T Best Papers of 2017.

The most current edition of ES&T highlights a new paper by Eawag scientist Thomas Hofstetter of the department of Environmental Chemistry and Christopher Gorski, an Eawag alumnus, now at the Pennsylvania State University. In their work, the group of scientists set out to understand how rates of pollutant transformation depend on the thermodynamic properties of iron minerals.

Original publications

Sydney M. Stewart, Thomas B. Hofstetter, Prachi Joshi und Christopher A. Gorski. Linking Thermodynamics to Pollutant Reduction Kinetics by Fe²⁺ Bound to Iron Oxides

<https://pubs.acs.org/doi/10.1021/acs.est.8b00481>

Peter R. Tentscher, Marc Bourgin und Urs von Gunten. Ozonation of Para-Substituted Phenolic Compounds Yields p-Benzoquinones, Other Cyclic, Unsaturated Ketones, and Substituted Catechols.

[dx.doi.org/10.1021/acs.est.8b00011](https://doi.org/10.1021/acs.est.8b00011)

First runner-Up "Feature"

Peter J. Vikesland, Amy Pruden, Pedro J. J. Alvarez, Diana Aga, Helmut Bürgmann, Xiang-dong Li, Celia M. Manaia, Indumathi Nambi, Krista Wigginton, Tong Zhang und Yong-Guan Zhu. Toward a Comprehensive Strategy to Mitigate Dissemination of Environmental Sources of Antibiotic Resistance. Environ. Sci. Technol., 2017, 51 (22), 13061-13069.

[dx.doi.org/10.1021/acs.est.7b03623](https://doi.org/10.1021/acs.est.7b03623)

Second Runner-Up "Feature"

Juliane Hollender, Emma L. Schymanski, Heinz P. Singer und P. Lee Ferguson. Nontarget Screening with High Resolution Mass Spectrometry in the Environment: Ready to Go? Environ. Sci. Technol., 2017, 51 (20), 11505-11512.

[dx.doi.org/10.1021/acs.est.7b02184](https://doi.org/10.1021/acs.est.7b02184)

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<https://www.eawag.ch/en/info/portal/news/news-archive/archive-detail/eawag-covering-environmental-science-technology>