

Publication list – Michael Wagner

I have published between 1992-2017 in my six major research fields (nitrification, single cell tools, wastewater microbiology, endosymbionts, microbiome, sulfate reduction) 231 papers and more than 30 book chapters. According to Scopus (September 2017) my publications have been cited 29,327x (ISI: 28,188; Google Scholar: 43,329) and I have an H-index of 91 (ISI: 90; Google Scholar: 110). Seven of my publications appeared in *Nature* (plus a News & Views piece), three in *Science*, ten in *PNAS* (all direct submission) and two in *PLoS Biology*. More info about my publications can be found at:

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57200814774>
ResearcherID: <http://www.researcherid.com/rid/A-7801-2011>
GoogleScholar: https://scholar.google.com/citations?user=JF6OQ_0AAAAJ&hl=de

232. Bjerg JT, Boschker HTS, Larsen S, Berry D, Schmid M, Millo D, Tataru P, Meysman FJR, Wagner M, Nielsen LP, Schramm A. 2018. Long-distance electron transport in individual, living cable bacteria. *Proc Natl Acad Sci U S A*, in press

231. Daims H, Wagner M. 2018. Nitrospira. *Trends Microbiol.*, 5: 462-463

230. Webster NS, Wagner M, Negri AP. 2018. Microbial conservation in the Anthropocene. *Environ. Microbiol.*, in press

229. Hausmann B, Pjevac P, Schreck K, Herbold CW, Daims H, Wagner M, Loy A. 2018. Draft genome sequence of *Telmatospirillum siberiense* 26-4b1T, an acidotolerant peatland alphaproteobacterium potentially involved in sulfur cycling. *Genome Announc*, 6 (4). doi: 10.1128/genomeA.01524-17

228. Volland J-M, Schintlmeister A, Zambalos H, Reipert S; Mozetič P, Espada-Hinojosa S, Turk V, Wagner M, Bright M. 2018. NanoSIMS and tissue autoradiography reveal symbiont carbon fixation and organic carbon transfer to giant ciliate host. *ISME J*, 3: 714-727

227. Daebeler A, Herbold C, Vierheilig J, Sedlacek CJ, Pjevac P, Albertsen M, Kirkegaard RH, De La Torre JR, Daims H, Wagner M. 2018. Cultivation and genomic analysis of “*Candidatus Nitrosocaldus islandicus*”, an obligately thermophilic, ammonia-oxidizing thaumarchaeon from a hot spring biofilm in Graendalur valley, Iceland. *Front Microbiol*, 9: 193

226. Kits KD, Sedlacek CJ, Lebedeva EV, Han P, Bulaev A, Pjevac P, Daebeler A, Romano S, Albertsen M, Stein LY, Daims H, Wagner M. 2017. Kinetic analysis of a complete nitrifier reveals an oligotrophic lifestyle. *Nature*, 549: 269-272

225. Pjevac P, Schauburger C, Poghosyan L, Herbold CW, van Kessel MAHJ, Daebeler A, Steinberger M, Jetten MSM, Luecker S, Wagner M, Daims H. 2017. *AmoA*-targeted polymerase chain reaction primers for the specific detection and quantification of comammox *Nitrospira* in the environment. *Front Microbiol*, 8: 1508

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223. **Herbold CW, Lehtovirta-Morley LE, Jung MY, Jehmlich N, Hausmann B, Han P, Loy A, Pester M, Sayavedra-Soto LA, Rhee SK, Prosser JI, Nicol GW, Wagner M, Gubry-Rangin C.** 2017. Ammonia-oxidising archaea living at low pH: Insights from comparative genomics. *Environ. Microbiol.*, **12**: 4939-4952
222. **Liu S, Han P, Hink L, Prosser JI, Wagner M, Brüggemann N.** 2017. Abiotic conversion of extracellular NH₂OH contributes to N₂O emission during ammonia oxidation. *Environ. Sci. Technol.*, **22**: 13122-13132
221. **Oswald K, Graf JS, Liftmann S, Tierken D, Brand A, Wehrli B, Albertsen M, Daims H, Wagner M, Kuypers MMM, Schubert CJ, Milucka J.** 2017. *Crenothrix* are major methane consumers in stratified lakes. *ISME J*, **11**: 2124-2140
220. **Singer E., Wagner M, Woyke T.** 2017. Capturing the genetic makeup of the active microbiome in situ. *ISME J*, **11**: 1949-1963
219. **Sauder LA, Albertsen M, Engel K, Schwarz J, Nielsen PH, Wagner M, Neufeld JD.** 2017. Cultivation and characterization of *Candidatus Nitrosocosmicus exaquare*, an ammonia-oxidizing archaeon from a municipal wastewater treatment system. *ISME J*, **11**: 1142-1157
218. **Daims H, Lückner S, Wagner M.** 2016. A new perspective on microbes formerly known as nitrite-oxidizing bacteria. *Trends Microbiol*, **24**: 699-712
217. **Wang Y, Huang WE, Cui L, Wagner M.** 2016. Single cell stable isotope probing in microbiology using Raman microspectroscopy. *Curr Opin Biotechnol*, **41**: 34-42
216. **Legin AA, Theiner S, Schintlmeister A, Reipert S, Heffeter P, Jakupec MA, Varbanov HP, Kowol CR, Galanski, Berger MW, Wagner M, Keppler BK.** 2016. Multi-scale imaging of anticancer platinum(IV) compounds in murine tumor and kidney. *Chem Sci*, 2016, **7**: 3052–3061
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209. Koch H, Lücker S, Albertsen M, Kitzinger K, Herbold C, Spieck E, Nielsen PH, Wagner M, Daims H. 2015 Expanded metabolic versatility of ubiquitous nitrite-oxidizing bacteria from the genus *Nitrospira*. *Proc Natl Acad Sci U S A*, **112**: 11371-11376
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heavy water (D₂O) incorporation for identifying and sorting active microbial cells. *Proc. Natl. Acad. Sci. USA*, **112**: E194-203

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186. **Yilmaz LF, Loy A, Wright E, Wagner M, Noguera DR.** 2012. Modeling formamide denaturation of probe-target hybrids for improved microarray probe design in microbial diagnostics. *PLoS One* 7: e43862

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illuminates the physiology and evolution of globally important nitrite-oxidizing bacteria. *Proc. Natl. Acad. Sci. USA* 107: 13479-13484.

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