

## Publication list – Michael Wagner

I have published between 1992-2019 in my six major research fields (nitrification, single cell microbiology, microbiome, wastewater microbiology, endosymbionts, sulfate reduction) 244 papers and more than 30 book chapters. According to Scopus (May 2019) my publications have been cited 34,099x (ISI: 31,547; Google Scholar: 49,220) and I have an H-index of 99 (ISI: 94; Google Scholar: 119). Seven of my publications appeared in *Nature* (plus a News & Views piece), three in *Science*, eleven 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](https://scholar.google.com/citations?user=JF6OQ_0AAAAJ&hl=de)

244. Gorka S, Dietrich M, Mayerhofer W, Gabriel R, Wiesenbauer J, Martin V, Zheng Q, Imai B, Prommer J, Weidinger M, Schweiger P, Eichorst SA, Wagner M, Richter A, Schintlmeister A, Wobken D, Kaiser C. 2019. Rapid transfer of plant photosynthates to soil bacteria via ectomycorrhizal hyphae and its interaction with nitrogen availability. *Front Microbiol*, **10**:168

243. Lee KS, Palatinszky M, Pereira FC, Nguyen J, Fernandez VI, Mueller AJ, Menolascina F, Daims H, Berry D, Wagner M, Stocker R. 2019. An automated Raman-based platform for the sorting of live cells by functional properties. *Nat Microbiol*, doi.org/10.1038/s41564-019-0394-9

242. Fernando EY, McIlroy SJ, Nierychlo M, Herbst FA, Petriglieri F, Schmid MC, Wagner M, Nielsen JL, Nielsen PH. 2019. Resolving the individual contribution of key microbial populations to enhanced biological phosphorus removal with Raman-FISH. 2019 - *ISME J*, doi.org/10.1038/s41396-019-0399-7

241. Tveit AT, Hestnes AG, Robinson SL, Schintlmeister A, Dedysh SN, Jehmlich N, von Bergen M, Herbold CW, Wagner M, Richter A, Svenning MM. 2019. Widespread soil bacterium that oxidizes atmospheric methane. *Proc. Natl. Acad. Sci. U.S.A.*, **116** (17) 8515-8524

240. Kits KD, Jung MY, Vierheilig J, Pjevac P, Sedlacek CJ, Liu S, Herbold C, Stein LY, Richter A, Wissel H, Brüggemann N, Wagner M, Daims H. 2019. Low yield and abiotic origin of NO formed by the complete nitrifier *Nitrospira inopinata*. *Nat Commun*, **1**: 1836

239. Schneider S, Schintlmeister A, Becana M, Wagner M, Wobken D, Wienkoop S. 2019. Sulfate is transported at significant rates through the symbiosome membrane and is crucial for nitrogenase biosynthesis. *Plant Cell Environ*, **4**:1180-1189

238. **Weiss R, Palatinszky M, Wagner M, Niessner R, Elsner M, Seidel M, Ivleva NP.** 2019. Surface-enhanced Raman spectroscopy of microorganisms: Limitations and applicability on the single-cell level, *Analyst*, **3**: 943-953
237. **Kitzinger K, Padilla CC, Marchant HK, Hach PF, Herbold CW, Kidane AT, Könneke M, Littmann S, Mooshammer M, Niggemann J, Petrov S, Richter A, Stewart FJ, Wagner M, Kuypers MMM, Bristow LA.** 2019. Cyanate and urea are substrates for nitrification by thaumarchaeota in the marine environment. *Nat Microbiol*, **2**: 234-243
236. **Zumstein MT, Schintlmeister A, Nelson TF, Baumgartner R, Wobken D, Wagner M, Kohler H-PE, McNeill K, Sander M.** 2018. Biodegradation of synthetic polymers in soils: Tracking carbon into CO<sub>2</sub> and microbial biomass. *Science Advances*, **4**: eaas9024
235. **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*, **115**: 5786-5791
234. **Reese A, Pereira F, Schintlmeister A, Berry D, Wagner M, Hale L, Wu A, Jiang S, Durand H, Zhou X, Premont R, Diehl AM, O'Connell T, Alberts S, Kartzinel T, Pringle R, Dunn R, Wright J, and David L.** 2018. Microbial nitrogen limitation in the mammalian large intestine *Nat Microbiol*, **12**: 1441-1450
233. **Kitzinger K, Koch H, Lückner S, Sedlacek CJ, Herbold C, Schwarz J, Daebeler A, Mueller AJ, Lukumbuzya M, Romano S, Leisch N, Karst SM, Kirkegaard R, Albertsen M, Nielsen PH, Wagner M, Daims H.** 2018. Characterization of the first “Candidatus Nitrotoga” isolate reveals metabolic versatility and separate evolution of widespread nitrite-oxidizing bacteria. *mBio*, **9**: e01186-18
232. **Yu Y, Han P, Zhou L-J, Li Z, Wagner M, Men Y.** 2018. Ammonia monooxygenase-mediated cometabolic biotransformation and hydroxylamine-mediated abiotic transformation of micropollutants in an AOB/NOB co-culture. *Environ. Sci. Technol.* **52**: 9196-9205
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*, **6**: 1925-1928
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 symbiotic carbon fixation and organic carbon transfer to giant ciliate host. *ISME J*, **3**: 714-727

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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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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
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218. **Daims H, Luecker 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

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211. **Wagner M.** 2015. Conductive consortia (News & Views piece), *Nature* **526**: 513-514
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209. **Koch H, Lüscher 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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197. **Koch H, Galushko A, Albertsen M, Schintlmeister A, Gruber-Dorninger C, Lücker S, Pelletier E, Le Paslier D, Spieck E, Richter A, Nielsen PH, Wagner M, Daims H.** 2014. Growth of nitrite-oxidizing bacteria by aerobic hydrogen oxidation. *Science*, **345**: 1052-1054

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