

Kokko M, Koskue V, Rintala J. **Anaerobic digestion of 30–100-year-old boreal lake sedimented fibre from the pulp industry: Extrapolating methane production potential to a practical scale.** *Water Research*. 2018 huhti 15;133:218-226. <https://doi.org/10.1016/j.watres.2018.01.041>

Jokela JPY, Rintala JA. **Anaerobic solubilisation of nitrogen from municipal solid waste (MSW).** *Reviews in Environmental Science and Bio-Technology*. 2003;2(1):67-77. <https://doi.org/10.1023/B:RESB.0000022830.62176.36>

Singh S, Rinta-Kanto JM, Kettunen R, Tolvanen H, Lens P, Collins G et al. **Anaerobic treatment of LCFA-containing synthetic dairy wastewater at 20°C: Process performance and microbial community dynamics.** *Science of the Total Environment*. 2019 marras 15;691:960-968. <https://doi.org/10.1016/j.scitotenv.2019.07.136>

Kuula J, Kuuluvainen H, Rönkkö T, Niemi JV, Saukko E, Portin H et al. **Applicability of optical and diffusion charging-based particulate matter sensors to urban air quality measurements.** *Aerosol and Air Quality Research*. 2019 touko 1;19(5):1024-1039. <https://doi.org/10.4209/aaqr.2018.04.0143>

Ntziachristos L, Amanatidis S, Samaras Z, Janka K, Tikkanen J. **Application of the Pegasor Particle Sensor for the Measurement of Mass and Particle Number Emissions.** *SAE International Journal of Fuels and Lubricants*. 2013 huhti;6(2).

Šutka A, Vanags M, Joost U, Šmits K, Ruža J, Ločs J et al. **Aqueous synthesis of Z-scheme photocatalyst powders and thin-film photoanodes from earth abundant elements.** *Journal of Environmental Chemical Engineering*. 2018 huhti 1;6(2):2606-2615. <https://doi.org/10.1016/j.jece.2018.04.003>

Kumar MS, Praveenkumar R, Ilavarasi A, Rajeshwari K, Thajuddin N. **Biochemical changes of fresh water cyanobacteria *dolichospermum flos-aquae* NTMS07 to chromium-induced stress with special reference to antioxidant enzymes and cellular fatty acids.** *Bulletin of Environmental Contamination and Toxicology*. 2013 kesä;90(6):730-735. <https://doi.org/10.1007/s00128-013-0984-9>

Streck J, Hank C, Neuner M, Gil-Carrera L, Kokko M, Pauliuk S et al. **Bio-electrochemical conversion of industrial wastewater-COD combined with downstream methanol synthesis-an economic and life cycle assessment.** *Green Chemistry*. 2018;20(12):2742-2762. <https://doi.org/10.1039/c8gc00543e>

Dessi P, Lakaniemi A-M, Lens PNL. **Biohydrogen production from xylose by fresh and digested activated sludge at 37, 55 and 70 °C.** *Water Research*. 2017 touko 15;115:120-129. <https://doi.org/10.1016/j.watres.2017.02.063>

Tan LC, Nancharaiah YV, Lu S, van Hullebusch ED, Gerlach R, Lens PNL. **Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0.** *Chemosphere*. 2018 marras 1;211:684-693. <https://doi.org/10.1016/j.chemosphere.2018.07.079>

Ramasamy P, Lee K, Lee J, Oh YK. **Breaking dormancy: An energy-efficient means of recovering astaxanthin from microalgae.** *Green Chemistry*. 2015 helmi 1;17(2):1226-1234. <https://doi.org/10.1039/c4gc01413h>

Niemelä NP, Tolvanen H, Saarinen T, Leppänen A, Joronen T. **CFD based reactivity parameter determination for biomass particles of multiple size ranges in high heating rate devolatilization.** *Energy*. 2017 kesä 1;128:676-687. <https://doi.org/10.1016/j.energy.2017.04.023>

Simonen P, Kalliokoski J, Karjalainen P, Rönkkö T, Timonen H, Saarikoski S et al. **Characterization of laboratory and real driving emissions of individual Euro 6 light-duty vehicles – Fresh particles and secondary aerosol formation.** *Environmental Pollution*. 2019 joulu 1;255. 113175. <https://doi.org/10.1016/j.envpol.2019.113175>

Amanatidis S, Ntziachristos L, Karjalainen P, Saukko E, Simonen P, Kuittinen N et al. **Comparative performance of a thermal denuder and a catalytic stripper in sampling laboratory and marine exhaust aerosols.** *Aerosol Science and Technology*. 2018;52(4):1-13. <https://doi.org/10.1080/02786826.2017.1422236>

Aakko-Saksa P, Koponen P, Aurela M, Vesala H, Piimäkorpi P, Murtonen T et al. **Considerations in analysing elemental carbon from marine engine exhaust using residual, distillate and biofuels.** Journal of Aerosol Science. 2018 joulu;126:191-204. <https://doi.org/10.1016/j.jaerosci.2018.09.005>

Sormunen K, Ettala M, Rintala J. **Detailed internal characterisation of two Finnish landfills by waste sampling.** Waste Management. 2008;28(1):151-163. <https://doi.org/10.1016/j.wasman.2007.01.003>

Arffman A, Juuti P, Harra J, Keskinen J. **Differential diffusion analyzer.** Aerosol Science and Technology. 2017;51(12):1429-1437. <https://doi.org/10.1080/02786826.2017.1367089>

Seo JY, Ramasamy P, Kim B, Seo JC, Park JY, Na JG et al. **Downstream integration of microalgae harvesting and cell disruption by means of cationic surfactant-decorated Fe<sub>3</sub>O<sub>4</sub> nanoparticles.** Green Chemistry. 2016;18(14):3981-3989. <https://doi.org/10.1039/c6gc00904b>

Dessi P, Jain R, Singh S, Seder-Colomina M, van Hullebusch ED, Rene ER et al. **Effect of temperature on selenium removal from wastewater by UASB reactors.** Water Research. 2016 touko 1;94:146-154. <https://doi.org/10.1016/j.watres.2016.02.007>

Salo L, Mylläri F, Maasikmets M, Niemelä V, Konist A, Vainumäe K et al. **Emission measurements with gravimetric impactors and electrical devices: An aerosol instrument comparison.** Aerosol Science and Technology. 2019 maaliskuu 1;53(5):526-539. <https://doi.org/10.1080/02786826.2019.1578858>

Amanatidis S, Ntziachristos L, Giechaskiel B, Katsaounis D, Samaras Z, Bergmann A. **Evaluation of an oxidation catalyst ("catalytic stripper") in eliminating volatile material from combustion aerosol.** Journal of Aerosol Science. 2013 maaliskuu;57:144-155. <https://doi.org/10.1016/j.jaerosci.2012.12.001>

Järvinen A, Keskinen J, Yli-Ojanperä J. **Extending the Faraday cup aerosol electrometer based calibration method up to 5 µm.** Aerosol Science and Technology. 2018 elokuu 3;52(8):828-840. <https://doi.org/10.1080/02786826.2018.1472742>

Juuti P, Nikka M, Gunell M, Eerola E, Saarinen JJ, Omori Y et al. **Fabrication of fiber filters with antibacterial properties for VOC and particle removal.** Aerosol and Air Quality Research. 2019 elokuu 1;19(8):1892-1899. <https://doi.org/10.4209/aaqr.2018.12.0474>

Auvinen H, Gagnon V, Rousseau DPL, du Laing G. **Fate of metallic engineered nanomaterials in constructed wetlands: prospection and future research perspectives.** Reviews in Environmental Science and Bio-Technology. 2017;16(2):207-222. <https://doi.org/10.1007/s11157-017-9427-0>

Rostedt A, Keskinen J. **Flow rate-independent electrical aerosol sensor.** Aerosol Science and Technology. 2018;52(11):1283-1292. <https://doi.org/10.1080/02786826.2018.1498586>

Szabo HM, Lepistö R, Tuhkanen T. **HPLC-SEC: a new approach to characterise complex wastewater effluents.** International Journal of Environmental Analytical Chemistry. 2016 helmikuu 19;96(3):257-270. <https://doi.org/10.1080/03067319.2016.1150463>

Saari S, Järvinen S, Reponen T, Mensah-Attipoe J, Pasanen P, Toivonen J et al. **Identification of single microbial particles using electro-dynamic balance assisted laser-induced breakdown and fluorescence spectroscopy.** Aerosol Science and Technology. 2016 helmikuu 1;50(2):126-132. <https://doi.org/10.1080/02786826.2015.1134764>

Caserini S, Pastorello C, Gaifami P, Ntziachristos L. **Impact of the dropping activity with vehicle age on air pollutant emissions.** Atmospheric Pollution Research. 2013 heinäkuu;4(3):282-289. <https://doi.org/10.5094/APR.2013.031>

Pihlava K, Keskinen J, Yli-Ojanperä J. **Improving the signal-to-noise ratio of Faraday cup aerosol electrometer based aerosol instrument calibrations.** *Aerosol Science and Technology*. 2016 huhti 2;50(4):373-379. <https://doi.org/10.1080/02786826.2016.1153035>

Dal Maso M, Gao J, Järvinen A, Li H, Luo D, Janka K et al. **Improving urban air quality measurements by a diffusion charger based electrical particle sensors: A field study in Beijing, China.** *Aerosol and Air Quality Research*. 2016 joulu 1;16(12):3001-3011.

Leivo V, Prasauskas T, Du L, Turunen M, Kiviste M, Aaltonen A et al. **Indoor thermal environment, air exchange rates, and carbon dioxide concentrations before and after energy retro fits in Finnish and Lithuanian multi-family buildings.** *Science of the Total Environment*. 2017;621:398-406. <https://doi.org/10.1016/j.scitotenv.2017.11.227>

Sormunen K, Ettala M, Rintala J. **Internal leachate quality in a municipal solid waste landfill: Vertical, horizontal and temporal variation and impacts of leachate recirculation.** *Journal of Hazardous Materials*. 2008 joulu 30;160(2-3):601-607. <https://doi.org/10.1016/j.jhazmat.2008.03.081>

Oluoti K, Doddapaneni TRKC, Richards T. **Investigating the kinetics and biofuel properties of *Alstonia congensis* and *Ceiba pentandra* via torrefaction.** *Energy*. 2018 touko 1;150:134-141. <https://doi.org/10.1016/j.energy.2018.02.086>

Rasi S, Läntelä J, Veijanen A, Rintala J. **Landfill gas upgrading with countercurrent water wash.** *Waste Management*. 2008;28(9):1528-1534. <https://doi.org/10.1016/j.wasman.2007.03.032>

Kettunen RH, Einola JKM, Rintala JA. **Landfill methane oxidation in engineered soil columns at low temperature.** *Water Air and Soil Pollution*. 2006 marras;177(1-4):313-334. <https://doi.org/10.1007/s11270-006-9176-0>

Einola JKM, Karhu AE, Rintala JA. **Mechanically-biologically treated municipal solid waste as a support medium for microbial methane oxidation to mitigate landfill greenhouse emissions.** *Waste Management*. 2008;28(1):97-111. <https://doi.org/10.1016/j.wasman.2007.01.002>

Kinnunen V, Ylä-Outinen A, Rintala J. **Mesophilic anaerobic digestion of pulp and paper industry biosludge-long-term reactor performance and effects of thermal pretreatment.** *Water Research*. 2015 joulu 15;49:105-111. 11500. <https://doi.org/10.1016/j.watres.2015.08.053>

Einola J-KM, Sormunen KM, Rintala JA. **Methane oxidation in a boreal climate in an experimental landfill cover composed from mechanically-biologically treated waste.** *Science of the Total Environment*. 2008 joulu 15;407(1):67-83. <https://doi.org/10.1016/j.scitotenv.2008.08.016>

van Hullebusch ED, Guibaud G, Simon S, Lenz M, Yekta SS, Feroso FG et al. **Methodological approaches for fractionation and speciation to estimate trace element bioavailability in engineered anaerobic digestion ecosystems: An overview.** *Critical Reviews in Environmental Science and Technology*. 2016 elo 17;46(16):1324-1366. <https://doi.org/10.1080/10643389.2016.1235943>

Rasi S, Seppälä M, Rintala J. **Organic silicon compounds in biogases produced from grass silage, grass and maize in laboratory batch assays.** *Energy*. 2013 huhti 1;52:137-142. <https://doi.org/10.1016/j.energy.2013.01.015>

Järvinen A, Timonen H, Karjalainen P, Bloss M, Simonen P, Saarikoski S et al. **Particle emissions of Euro VI, EEV and retrofitted EEV city buses in real traffic.** *Environmental Pollution*. 2019 heinä 1;250:708-716. <https://doi.org/10.1016/j.envpol.2019.04.033>

Saari S, Arffman A, Harra J, Rönkkö T, Keskinen J. **Performance evaluation of the HR-ELPI + inversion.** *Aerosol Science and Technology*. 2018 syys 2;52(9):1037-1047. <https://doi.org/10.1080/02786826.2018.1500679>

Karjalainen P, Saari S, Kuuluvainen H, Kalliohaka T, Taipale A, Rönkkö T. **Performance of ventilation filtration technologies on characteristic traffic related aerosol down to nanocluster size.** *Aerosol Science and Technology*. 2017;51(12):1398-1408. <https://doi.org/10.1080/02786826.2017.1356904>

Lay C-H, Kokko ME, Puhakka JA. **Power generation in fed-batch and continuous up-flow microbial fuel cell from synthetic wastewater.** Energy. 2015 marras 1;91:235-241. <https://doi.org/10.1016/j.energy.2015.08.029>

Hyvälouma J, Kulju S, Hannula M, Wikberg H, Källi A, Rasa K. **Quantitative characterization of pore structure of several biochars with 3D imaging.** Environmental Science and Pollution Research. 2018 syys;25(26):1-11. <https://doi.org/10.1007/s11356-017-8823-x>

Juuti P, Arffman A, Rostedt A, Harra J, Mäkelä JM, Keskinen J. **Real-time effective density monitor (DENSMO) for aerosol nanoparticle production.** Aerosol Science and Technology. 2016 touko 3;50(5):487-496. <https://doi.org/10.1080/02786826.2016.1168511>

Ledezma P, Jermakka J, Keller J, Freguia S. **Recovering Nitrogen as a Solid without Chemical Dosing: Bio-Electroconcentration for Recovery of Nutrients from Urine.** Environmental Science and Technology Letters. 2017 maalisk 14;4(3):119-124. <https://doi.org/10.1021/acs.estlett.7b00024>

Mensah-Attipoe J, Saari S, Veijalainen AM, Pasanen P, Keskinen J, Leskinen JTT et al. **Release and characteristics of fungal fragments in various conditions.** Science of the Total Environment. 2016 maalisk 15;547:234-243. <https://doi.org/10.1016/j.scitotenv.2015.12.095>

Chatterjee P, Lahtinen L, Kokko M, Rintala J. **Remediation of sedimented fiber originating from pulp and paper industry: Laboratory scale anaerobic reactor studies and ideas of scaling up.** Water Research. 2018 loka 15;143:209-217. <https://doi.org/10.1016/j.watres.2018.06.054>

Jain R, Peräniemi S, Jordan N, Vogel M, Weiss S, Foerstendorf H et al. **Removal and recovery of uranium(VI) by waste digested activated sludge in fed-batch stirred tank reactor.** Water Research. 2018 loka 1;142:167-175. <https://doi.org/10.1016/j.watres.2018.05.042>

Saari S, Niemi JV, Rönkkö T, Kuuluvainen H, Järvinen A, Pirjola L et al. **Seasonal and diurnal variations of fluorescent bioaerosol concentration and size distribution in the urban environment.** Aerosol and Air Quality Research. 2015;15(2):572-581. <https://doi.org/10.4209/aaqr.2014.10.0258>

Tan LC, Espinosa-Ortiz EJ, Nancharaiah YV, van Hullebusch ED, Gerlach R, Lens PN. **Selenate removal in biofilm systems: Effect of nitrate and sulfate on selenium removal efficiency, biofilm structure and microbial community.** Journal of Chemical Technology and Biotechnology. 2018 elo;93(8):2380-2389. <https://doi.org/10.1002/jctb.5586>

Espinosa-Ortiz EJ, Shakya M, Jain R, Rene ER, van Hullebusch ED, Lens PNL. **Sorption of zinc onto elemental selenium nanoparticles immobilized in Phanerochaete chrysosporium pellets.** Environmental Science and Pollution Research. 2016;23(21):21619-21630. <https://doi.org/10.1007/s11356-016-7333-6>

Afolaranmi SO, Ramis Ferrer B, Martinez Lastra JL. **Technology review: prototyping platforms for monitoring ambient conditions.** International Journal of Environmental Health Research. 2018;28(3):253-279. <https://doi.org/10.1080/09603123.2018.1468423>

Arffman A, Kuuluvainen H, Harra J, Vuorinen O, Juuti P, Yli-Ojanperä J et al. **The critical velocity of rebound determined for sub-micron silver particles with a variable nozzle area impactor.** Journal of Aerosol Science. 2015 elo 1;86:32-43. <https://doi.org/10.1016/j.jaerosci.2015.04.003>

Dressen MHCL, Stumpel JE, Van De Kruijs BHP, Meuldijk J, Vekemans JAJM, Hulshof LA. **The mechanism of the oxidation of benzyl alcohol by iron(III)nitrate: Conventional versus microwave heating.** Green Chemistry. 2009;11(1):60-64. <https://doi.org/10.1039/b813030b>

Suvilampi J, Rintala J. **Thermophilic aerobic wastewater treatment, process performance, biomass characteristics, and effluent quality.** Reviews in Environmental Science and Bio-Technology. 2003;2(1):35-51. <https://doi.org/10.1023/B:RESB.0000022959.46025.9a>

Bayr S, Rintala J. **Thermophilic anaerobic digestion of pulp and paper mill primary sludge and co-digestion of primary and secondary sludge.** Water Research. 2012 loka 1;46(15):4713-4720. <https://doi.org/10.1016/j.watres.2012.06.033>

Kuuluvainen H, Saari S, Mensah-Attipoe J, Arffman A, Pasanen P, Reponen T et al. **Triboelectric charging of fungal spores during resuspension and rebound.** Aerosol Science and Technology. 2016 helmi 1;50(2):187-197. <https://doi.org/10.1080/02786826.2016.1141164>

Ntziachristos L, Amanatidis S, Samaras Z, Giechaskiel B, Bergmann A. **Use of a Catalytic Stripper as an Alternative to the Original PMP Measurement Protocol.** SAE International Journal of Fuels and Lubricants. 2013 huhti;6(2).

Kuuluvainen H, Poikkimäki M, Järvinen A, Kuula J, Ijala M, Dal Maso M et al. **Vertical profiles of lung deposited surface area concentration of particulate matter measured with a drone in a street canyon.** Environmental Pollution. 2018 loka 1;241:96-105. <https://doi.org/10.1016/j.envpol.2018.04.100>

Sivula L, Ilander A, Väisänen A, Rintala J. **Weathering of gasification and grate bottom ash in anaerobic conditions.** Journal of Hazardous Materials. 2010 helmi 15;174(1-3):344-351. <https://doi.org/10.1016/j.jhazmat.2009.09.056>

Olin M, Kausiala O, Alanen J, Rönkkö T, Dal Maso M. **Finding H<sub>2</sub>SO<sub>4</sub>-H<sub>2</sub>O nucleation rates in high H<sub>2</sub>SO<sub>4</sub> concentrations.** julkaisussa Halonen R, Nikandrova A, Kontkanen J, Enroth JA, Vehkamäki H, toimittajat, Proceedings of the 20th International Conference on Nucleation and Atmospheric Aerosols. Aerosolitutkimusseura r.y., Finnish Association for Aerosol Research c/o University of Helsinki, Department of Physics. 2017. s. 476-479. (Report Series in Aerosol Science; 200).

Amanatidis S, Ntziachristos L, Samaras Z, Janka K, Tikkanen J. **Applicability of the Pegasor particle sensor to measure particle number, mass and PM emissions.** julkaisussa 11th International Conference on Engines and Vehicles, ICE 2013. Vuosikerta 6. 2013 <https://doi.org/10.4271/2013-24-0167>

Ntziachristos L, Amanatidis S, Samaras Z, Janka K, Tikkanen J. **Application of the pegasor particle sensor for the measurement of mass and particle number emissions.** julkaisussa SAE 2013 World Congress and Exhibition. Vuosikerta 2. SAE International. 2013 <https://doi.org/10.4271/2013-01-1561>

Du L, Prasauskas T, Leivo V, Turunen M, Aaltonen A, Kiviste M et al. **Building energy-efficiency interventions in North-East Europe: Effects on indoor environmental quality and public health.** julkaisussa Indoor Air 2014 - 13th International Conference on Indoor Air Quality and Climate. International Society of Indoor Air Quality and Climate . 2014. s. 637-639

Reponen T, Saari S, Mensah-Attipoe J, Ukkonen A, Veijalainen A, Pasanen P et al. **Characterization of charge in airborne fungal spores.** julkaisussa Indoor Air 2014 - 13th International Conference on Indoor Air Quality and Climate. International Society of Indoor Air Quality and Climate . 2014. s. 359-361

Karavalakis G, Short D, Chen V, Espinoza C, Berte T, Durbin T et al. **Evaluating Particulate Emissions from a Flexible Fuel Vehicle with Direct Injection when Operated on Ethanol and Iso-butanol Blends.** julkaisussa SAE 2014 International Powertrains, Fuels and Lubricants Meeting, FFL 2014. Vuosikerta 2014-October. SAE International. 2014 <https://doi.org/10.4271/2014-01-2768>

Ntziachristos L, Fragkiadoulakis P, Samaras Z, Janka K, Tikkanen J. **Exhaust particle sensor for OBD application.** julkaisussa SAE 2011 World Congress and Exhibition. 2011 <https://doi.org/10.4271/2011-01-0626>

Karvountzis-Kontakiotis A, Ntziachristos L, Samaras Z, Dimaratos A, Peckham M. **Experimental Investigation of Cyclic Variability on Combustion and Emissions of a High-Speed SI Engine.** julkaisussa SAE 2015 World Congress and Exhibition. April toim. Vuosikerta 2015-April. SAE International. 2015 <https://doi.org/10.4271/2015-01-0742>

Olin MP, Dal Maso MI. **Modelling particle distribution using combined power-law and log-normal distribution model.** julkaisussa Proceedings of the NOSA-FAAR Symposium 2015. Kuopio, Finland: Aerosolitutkimusseura r.y., Finnish Association for Aerosol Research c/o University of Helsinki, Department of Physics. 2015

Olin MP, Arffman AS, Dal Maso MI, Keskinen JO, Rönkkö TS. **Simulation of the Formation Process of Diesel Exhaust Particle Emissions.** julkaisussa Physics Days 2014. Tampere, Finland: Finnish Physical Society. 2014

Ntziachristos L, Amanatidis S, Samaras Z, Giechaskiel B, Bergmann A. **Use of a catalytic stripper as an alternative to the original PMP measurement protocol.** julkaisussa SAE 2013 World Congress and Exhibition. Vuosikerta 2. SAE International. 2013 <https://doi.org/10.4271/2013-01-1563>

Amanatidis S, Ntziachristos L, Samaras Z, Kouridis C, Janka K, Tikkanen J. **Use of a PPS sensor in evaluating the impact of fuel efficiency improvement technologies on the particle emissions of a euro 5 diesel car.** julkaisussa SAE 2014 World Congress and Exhibition. Vuosikerta 1. SAE International. 2014 <https://doi.org/10.4271/2014-01-1601>

Olin M, Dal Maso M. **Modelling new particle formation and growth using combined power law and log-normal distribution model.** julkaisussa EAC 2015, European Aerosol Conference. Milan, Italy: Italian Aerosol Society. 2015

Järvinen A, Karjalainen P, Bloss M, Potila O, Simonen P, Kuuluvainen H et al. **Chasing measurements for real-world emissions of city buses.** 2017. Julkaisun esittämispaiikka: European Aerosol Conference 2017, Zürich, Sveitsi.

Giechaskiel B, Maricq M, Ntziachristos L, Dardiotis C, Wang X, Axmann H et al. **Review of motor vehicle particulate emissions sampling and measurement: From smoke and filter mass to particle number.** Journal of Aerosol Science. 2014 tammi;67:48-86. <https://doi.org/10.1016/j.jaerosci.2013.09.003>