

Kokko, Marika, Veera Koskue, ja Jukka Rintala. "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, 133. 218-226. <https://doi.org/10.1016/j.watres.2018.01.041>

Jokela, J. P Y ja J. A. Rintala. "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, Suniti 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, 691. 960-968. <https://doi.org/10.1016/j.scitotenv.2019.07.136>

Kuula, Joel et al. "Applicability of optical and diffusion charging-based particulate matter sensors to urban air quality measurements". *Aerosol and Air Quality Research*. 2019, 19(5). 1024-1039. <https://doi.org/10.4209/aaqr.2018.04.0143>

Taylor, Jonathon et al. "Application of an indoor air pollution metamodel to a spatially-distributed housing stock". *Science of the Total Environment*. 2019, 667. 390-399. <https://doi.org/10.1016/j.scitotenv.2019.02.341>

Ntziachristos, Leonidas et al. "Application of the Pegasor Particle Sensor for the Measurement of Mass and Particle Number Emissions". *SAE International Journal of Fuels and Lubricants*. 2013. 6(2).

Šutka, A. et al. "Aqueous synthesis of Z-scheme photocatalyst powders and thin-film photoanodes from earth abundant elements". *Journal of Environmental Chemical Engineering*. 2018, 6(2). 2606-2615. <https://doi.org/10.1016/j.jece.2018.04.003>

Soinne, Helena et al. "Are there environmental or agricultural benefits in using forest residue biochar in boreal agricultural clay soil?". *Science of the Total Environment*. 2020. 731. <https://doi.org/10.1016/j.scitotenv.2020.138955>

Macintyre, H. L. et al. "Assessing urban population vulnerability and environmental risks across an urban area during heatwaves – Implications for health protection". *Science of the Total Environment*. 2018, 610-611. 678-690. <https://doi.org/10.1016/j.scitotenv.2017.08.062>

Kumar, Muthukannan Satheesh et al. "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, 90(6). 730-735. <https://doi.org/10.1007/s00128-013-0984-9>

Streck, J. 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, Paolo, Aino-Maija Lakaniemi ja Piet N L Lens. "Biohydrogen production from xylose by fresh and digested activated sludge at 37, 55 and 70 °C". *Water Research*. 2017, 115. 120-129. <https://doi.org/10.1016/j.watres.2017.02.063>

Tan, Lea Chua et al. "Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0". *Chemosphere*. 2018, 211. 684-693. <https://doi.org/10.1016/j.chemosphere.2018.07.079>

Ramasamy, Praveenkumar et al. "Breaking dormancy: An energy-efficient means of recovering astaxanthin from microalgae". *Green Chemistry*. 2015, 17(2). 1226-1234. <https://doi.org/10.1039/c4gc01413h>

Niemelä, Niko P. et al. "CFD based reactivity parameter determination for biomass particles of multiple size ranges in high heating rate devolatilization". *Energy*. 2017, 128. 676-687. <https://doi.org/10.1016/j.energy.2017.04.023>

- Olin, Miska ja Miiikka Dal Maso. "CFD modeling the diffusional losses of nanocluster-sized particles and condensing vapors in 90° bends of circular tubes". *Journal of Aerosol Science*. 2020. 150. <https://doi.org/10.1016/j.jaerosci.2020.105618>
- Simonen, Pauli 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. 255. <https://doi.org/10.1016/j.envpol.2019.113175>
- Amanatidis, Stavros 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, Päivi et al. "Considerations in analysing elemental carbon from marine engine exhaust using residual, distillate and biofuels". *Journal of Aerosol Science*. 2018, 126. 191-204. <https://doi.org/10.1016/j.jaerosci.2018.09.005>
- Sormunen, Kai, Matti Ettala, ja Jukka Rintala. "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. et al. "Differential diffusion analyzer". *Aerosol Science and Technology*. 2017, 51(12). 1429-1437. <https://doi.org/10.1080/02786826.2017.1367089>
- Carbone, Samara et al. "Distinguishing fuel and lubricating oil combustion products in diesel engine exhaust particles". *Aerosol Science and Technology*. 2019, 53(5). 594-607. <https://doi.org/10.1080/02786826.2019.1584389>
- Seo, Jung Yoon et al. "Downstream integration of microalgae harvesting and cell disruption by means of cationic surfactant-decorated Fe₃O₄ nanoparticles". *Green Chemistry*. 2016, 18(14). 3981-3989. <https://doi.org/10.1039/c6gc00904b>
- Dessi, Paolo et al. "Effect of temperature on selenium removal from wastewater by UASB reactors". *Water Research*. 2016, 94. 146-154. <https://doi.org/10.1016/j.watres.2016.02.007>
- Chakraborty, Samayita et al. "Effect of tungsten and selenium on C₁ gas bioconversion by an enriched anaerobic sludge and microbial community analysis". *Chemosphere*. 2020. 250. <https://doi.org/10.1016/j.chemosphere.2020.126105>
- Salo, Laura et al. "Emission measurements with gravimetric impactors and electrical devices: An aerosol instrument comparison". *Aerosol Science and Technology*. 2019, 53(5). 526-539. <https://doi.org/10.1080/02786826.2019.1578858>
- Amanatidis, Stavros et al. "Evaluation of an oxidation catalyst ("catalytic stripper") in eliminating volatile material from combustion aerosol". *Journal of Aerosol Science*. 2013, 57. 144-155. <https://doi.org/10.1016/j.jaerosci.2012.12.001>
- Järvinen, A., J. Keskinen ja J. Yli-Ojanperä. "Extending the Faraday cup aerosol electrometer based calibration method up to 5 µm". *Aerosol Science and Technology*. 2018, 52(8). 828-840. <https://doi.org/10.1080/02786826.2018.1472742>
- Juuti, Paxton et al. "Fabrication of fiber filters with antibacterial properties for VOC and particle removal". *Aerosol and Air Quality Research*. 2019, 19(8). 1892-1899. <https://doi.org/10.4209/aaqr.2018.12.0474>
- Auvinen, Hannele et al. "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. ja J. Keskinen. "Flow rate-independent electrical aerosol sensor". *Aerosol Science and Technology*. 2018, 52(11). 1283-1292. <https://doi.org/10.1080/02786826.2018.1498586>

Szabo, Hilda Marta, Raghida Lepistö ja Tuula Tuhkanen. "HPLC-SEC: a new approach to characterise complex wastewater effluents". *International Journal of Environmental Analytical Chemistry*. 2016, 96(3). 257-270. <https://doi.org/10.1080/03067319.2016.1150463>

Saari, S. et al. "Identification of single microbial particles using electro-dynamic balance assisted laser-induced breakdown and fluorescence spectroscopy". *Aerosol Science and Technology*. 2016, 50(2). 126-132. <https://doi.org/10.1080/02786826.2015.1134764>

Caserini, Stefano et al. "Impact of the dropping activity with vehicle age on air pollutant emissions". *Atmospheric Pollution Research*. 2013, 4(3). 282-289. <https://doi.org/10.5094/APR.2013.031>

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

Dal Maso, Miikka 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, 16(12). 3001-3011.

Leivo, Virpi 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, Kai, Matti Ettala, ja Jukka Rintala. "Internal leachate quality in a municipal solid waste landfill: Vertical, horizontal and temporal variation and impacts of leachate recirculation". *Journal of Hazardous Materials*. 2008, 160(2-3). 601-607. <https://doi.org/10.1016/j.jhazmat.2008.03.081>

Oluoti, Kehinde, Tharaka Rama K.C. Doddapaneni ja Tobias Richards. "Investigating the kinetics and biofuel properties of *Alstonia congensis* and *Ceiba pentandra* via torrefaction". *Energy*. 2018, 150. 134-141. <https://doi.org/10.1016/j.energy.2018.02.086>

Rasi, S. et al. "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, Riitta H., Juha Kalle M Einola, ja Jukka A. Rintala. "Landfill methane oxidation in engineered soil columns at low temperature". *Water Air and Soil Pollution*. 2006, 177(1-4). 313-334. <https://doi.org/10.1007/s11270-006-9176-0>

Lepistö, Teemu et al. "Measurement of the human respiratory tract deposited surface area of particles with an electrical low pressure impactor". *Aerosol Science and Technology*. 2020, 54(8). 958-971. <https://doi.org/10.1080/02786826.2020.1745141>

Einola, Juha Kalle M, A. Elina Karhu, ja Jukka A. Rintala. "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., A. Ylä-Outinen, ja J. Rintala. "Mesophilic anaerobic digestion of pulp and paper industry biosludge-long-term reactor performance and effects of thermal pretreatment". *Water Research*. 2015, 87. 105-111. <https://doi.org/10.1016/j.watres.2015.08.053>

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

van Hullebusch, Eric D. 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, 46(16). 1324-1366. <https://doi.org/10.1080/10643389.2016.1235943>

Symonds, Phil et al. "MicroEnv: A microsimulation model for quantifying the impacts of environmental policies on population health and health inequalities". *Science of the Total Environment*. 2019. 697. <https://doi.org/10.1016/j.scitotenv.2019.134105>

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

Järvinen, Anssi et al. "Particle emissions of Euro VI, EEV and retrofitted EEV city buses in real traffic". *Environmental Pollution*. 2019, 250. 708-716. <https://doi.org/10.1016/j.envpol.2019.04.033>

Chu, Biwu et al. "Particle growth with photochemical age from new particle formation to haze in the winter of Beijing, China". *Science of the Total Environment*. 2020. 753. <https://doi.org/10.1016/j.scitotenv.2020.142207>

Wihersaari, Hugo et al. "Particulate emissions of a modern diesel passenger car under laboratory and real-world transient driving conditions". *Environmental Pollution*. 2020. 265(Part B). <https://doi.org/10.1016/j.envpol.2020.114948>

Saari, Sampo et al. "Performance evaluation of the HR-ELPI + inversion". *Aerosol Science and Technology*. 2018, 52(9). 1037-1047. <https://doi.org/10.1080/02786826.2018.1500679>

Karjalainen, Panu et al. "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, Chyi-How, Marika E. Kokko, ja Jaakko A. Puhakka. "Power generation in fed-batch and continuous up-flow microbial fuel cell from synthetic wastewater". *Energy*. 2015, 91. 235-241. <https://doi.org/10.1016/j.energy.2015.08.029>

Hyväluoma, Jari et al. "Quantitative characterization of pore structure of several biochars with 3D imaging". *Environmental Science and Pollution Research*. 2018, 25(26). 1-11. <https://doi.org/10.1007/s11356-017-8823-x>

Juuti, Paxton et al. "Real-time effective density monitor (DENSMO) for aerosol nanoparticle production". *Aerosol Science and Technology*. 2016, 50(5). 487-496. <https://doi.org/10.1080/02786826.2016.1168511>

Ledezma, Pablo et al. "Recovering Nitrogen as a Solid without Chemical Dosing: Bio-Electroconcentration for Recovery of Nutrients from Urine". *Environmental Science and Technology Letters*. 2017, 4(3). 119-124. <https://doi.org/10.1021/acs.estlett.7b00024>

Mensah-Attipoe, Jacob et al. "Release and characteristics of fungal fragments in various conditions". *Science of the Total Environment*. 2016, 547. 234-243. <https://doi.org/10.1016/j.scitotenv.2015.12.095>

Chatterjee, Pritha et al. "Remediation of sedimented fiber originating from pulp and paper industry: Laboratory scale anaerobic reactor studies and ideas of scaling up". *Water Research*. 2018, 143. 209-217. <https://doi.org/10.1016/j.watres.2018.06.054>

Jain, Rohan et al. "Removal and recovery of uranium(VI) by waste digested activated sludge in fed-batch stirred tank reactor". *Water Research*. 2018, 142. 167-175. <https://doi.org/10.1016/j.watres.2018.05.042>

Saari, Sampo 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, Lea Chua et al. "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, 93(8). 2380-2389. <https://doi.org/10.1002/jctb.5586>

Espinosa-Ortiz, Erika J. et al. "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, Samuel Olaiya, Borja Ramis Ferrer, ja Jose Luis Martinez Lastra. "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, Anssi et al. "The critical velocity of rebound determined for sub-micron silver particles with a variable nozzle area impactor". *Journal of Aerosol Science*. 2015, 86. 32-43. <https://doi.org/10.1016/j.jaerosci.2015.04.003>

Dressen, Mark H C L et al. "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. ja J. Rintala. "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, Suvi ja Jukka Rintala. "Thermophilic anaerobic digestion of pulp and paper mill primary sludge and co-digestion of primary and secondary sludge". *Water Research*. 2012, 46(15). 4713-4720. <https://doi.org/10.1016/j.watres.2012.06.033>

Heikkilä, Paavo et al. "Toward elemental analysis of ambient single particles using electrodynamic balance and laser-induced breakdown spectroscopy". *Aerosol Science and Technology*. 2020. <https://doi.org/10.1080/02786826.2020.1727408>

Salmela, Milla et al. "Towards bioproduction of poly- α -olefins from lignocellulose". *Green Chemistry*. 2020, 22(15). 5067-5076. <https://doi.org/10.1039/d0gc01617a>

Kuuluvainen, Heino et al. "Triboelectric charging of fungal spores during resuspension and rebound". *Aerosol Science and Technology*. 2016, 50(2). 187-197. <https://doi.org/10.1080/02786826.2016.1141164>

Ntziachristos, Leonidas et al. "Use of a Catalytic Stripper as an Alternative to the Original PMP Measurement Protocol". *SAE International Journal of Fuels and Lubricants*. 2013. 6(2).

Kuuluvainen, Heino et al. "Vertical profiles of lung deposited surface area concentration of particulate matter measured with a drone in a street canyon". *Environmental Pollution*. 2018, 241. 96-105. <https://doi.org/10.1016/j.envpol.2018.04.100>

Sivula, Leena et al. "Weathering of gasification and grate bottom ash in anaerobic conditions". *Journal of Hazardous Materials*. 2010, 174(1-3). 344-351. <https://doi.org/10.1016/j.jhazmat.2009.09.056>

Olin, M. et al. "Finding H₂SO₄-H₂O nucleation rates in high H₂SO₄ concentrations"., Halonen, Roope, Nikandrova, Anna Kontkanen, Jenni Enroth, Joonas A. Vehkamäki, Hanna (toimittaneet). *Proceedings of the 20th International Conference on Nucleation and Atmospheric Aerosols*. Report Series in Aerosol Science; 200. Aerosolitutkimusseura r.y., Finnish Association for Aerosol Research c/o University of Helsinki, Department of Physics. 2017, 476-479.

Amanatidis, Stavros et al. "Applicability of the Pegasor particle sensor to measure particle number, mass and PM emissions". *11th International Conference on Engines and Vehicles, ICE 2013*. 2013. <https://doi.org/10.4271/2013-24-0167>

Ntziachristos, Leonidas et al. "Application of the pegasor particle sensor for the measurement of mass and particle number emissions". *SAE 2013 World Congress and Exhibition*. SAE International. 2013. <https://doi.org/10.4271/2013-01-1561>

Du, Liuliu et al. "Building energy-efficiency interventions in North-East Europe: Effects on indoor environmental quality and public health". *Indoor Air 2014 - 13th International Conference on Indoor Air Quality and Climate*. International Society of Indoor Air Quality and Climate . 2014, 637-639.

Reponen, Tiina et al. "Characterization of charge in airborne fungal spores". *Indoor Air 2014 - 13th International Conference on Indoor Air Quality and Climate*. International Society of Indoor Air Quality and Climate . 2014, 359-361.

Karavalakis, George et al. "Evaluating Particulate Emissions from a Flexible Fuel Vehicle with Direct Injection when Operated on Ethanol and Iso-butanol Blends". *SAE 2014 International Powertrains, Fuels and Lubricants Meeting, FFL 2014*. SAE International. 2014. <https://doi.org/10.4271/2014-01-2768>

Ntziachristos, Leonidas et al. "Exhaust particle sensor for OBD application". *SAE 2011 World Congress and Exhibition*. 2011. <https://doi.org/10.4271/2011-01-0626>

Karvountzis-Kontakiotis, Apostolos et al. "Experimental Investigation of Cyclic Variability on Combustion and Emissions of a High-Speed SI Engine". *SAE 2015 World Congress and Exhibition*. April udg., SAE International. 2015. <https://doi.org/10.4271/2015-01-0742>

Olin, Miska Petteri ja Miikka Ilmari Dal Maso "Modelling particle distribution using combined power-law and log-normal distribution model". *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.

Ovaska, Teemu et al. "Role of Lubricating Oil Properties in Exhaust Particle Emissions of an Off-Road Diesel Engine". *SAE WCX 2020 World Congress Experience*. SAE Technical Papers. SAE International. 2020. <https://doi.org/10.4271/2020-01-0386>

Olin, Miska Petteri et al. "Simulation of the Formation Process of Diesel Exhaust Particle Emissions". *Physics Days 2014*. Tampere, Finland: Finnish Physical Society. 2014.

Ntziachristos, Leonidas et al. "Use of a catalytic stripper as an alternative to the original PMP measurement protocol". *SAE 2013 World Congress and Exhibition*. SAE International. 2013. <https://doi.org/10.4271/2013-01-1563>

Amanatidis, Stavros et al. "Use of a PPS sensor in evaluating the impact of fuel efficiency improvement technologies on the particle emissions of a euro 5 diesel car". *SAE 2014 World Congress and Exhibition*. SAE International. 2014. <https://doi.org/10.4271/2014-01-1601>

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

Järvinen, Anssi et al. *Chasing measurements for real-world emissions of city buses*. 2017.

Taylor, Jonathon et al. *Tuberculosis transmission: Modelled impact of air-tightness in dwellings in the UK*. 2014. 8 s.

Das, Payel et al. *Using probabilistic sampling-based sensitivity analyses for indoor air quality modelling*. 2014. 3 s.

Giechaskiel, Barouch et al. "Review of motor vehicle particulate emissions sampling and measurement: From smoke and filter mass to particle number". *Journal of Aerosol Science*. 2014, 67. 48-86. <https://doi.org/10.1016/j.jaerosci.2013.09.003>