

Adsorption of furfural from torrefaction condensate using torrefied biomass

Doddapaneni, T. R. K. C., Jain, R., Praveenkumar, R., Rintala, J., Romar, H. & Konttinen, J., 2018, In : Chemical Engineering Journal. 334, p. 558-568 11 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Agricultural potential of anaerobically digested industrial orange waste with and without aerobic post-treatment

Kaparaju, P., Rintala, J. & Oikari, A., 1 Jan 2012, In : Environmental Technology. 33, 1, p. 85-94 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Anaerobic digestion of poultry slaughtering wastes

Salminen, E. A. & Rintala, J. A., 1999, In : Environmental Technology. 20, 1, p. 21-28 8 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Anaerobic treatment of LCFA-containing synthetic dairy wastewater at 20°C: Process performance and microbial community dynamics

Singh, S., Rinta-Kanto, J. M., Kettunen, R., Tolvanen, H., Lens, P., Collins, G., Kokko, M. & Rintala, J., 15 Nov 2019, In : Science of the Total Environment. 691, p. 960-968 9 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Applicability of optical and diffusion charging-based particulate matter sensors to urban air quality measurements

Kuula, J., Kuuluvainen, H., Rönkkö, T., Niemi, J. V., Saukko, E., Portin, H., Aurela, M., Saarikoski, S., Rostedt, A., Hillamo, R. & Timonen, H., 1 May 2019, In : Aerosol and Air Quality Research. 19, 5, p. 1024-1039 16 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Application of an indoor air pollution metamodel to a spatially-distributed housing stock

Taylor, J., Shrubsole, C., Symonds, P., Mackenzie, I. & Davies, M., 1 Jun 2019, In : Science of the Total Environment. 667, p. 390-399 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Are there environmental or agricultural benefits in using forest residue biochar in boreal agricultural clay soil?

Soinne, H., Keskinen, R., Heikkinen, J., Hyväluoma, J., Uusitalo, R., Peltoniemi, K., Velmala, S., Pennanen, T., Fritze, H., Kaseva, J., Hannula, M. & Rasa, K., 20 Aug 2020, In : Science of the Total Environment. 731, 138955.

Research output: Contribution to journal > Article > Scientific > peer-review

Assessing urban population vulnerability and environmental risks across an urban area during heatwaves – Implications for health protection

Macintyre, H. L., Heaviside, C., Taylor, J., Picetti, R., Symonds, P., Cai, X. M. & Vardoulakis, S., 1 Jan 2018, In : Science of the Total Environment. 610-611, p. 678-690 13 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Assessment of pitting corrosion in bare and passivated (wet scCO₂-induced patination and chemical passivation) hot-dip galvanized steel samples with SVET, FTIR, and SEM (EDS)

Saarimaa, V., Fuertes, N., Persson, D., Zavalis, T., Kaleva, A., Nikkanen, J-P., Levänen, E. & Heydari, G., 2020, In : Materials and Corrosion. 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Bio-electrochemical conversion of industrial wastewater-COD combined with downstream methanol synthesis-an economic and life cycle assessment

Streeck, J., Hank, C., Neuner, M., Gil-Carrera, L., Kokko, M., Pauliuk, S., Schaadt, A., Kerzenmacher, S. & White, R. J., 2018, In : Green Chemistry. 20, 12, p. 2742-2762 21 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Biological treatment of selenium-laden wastewater containing nitrate and sulfate in an upflow anaerobic sludge bed reactor at pH 5.0

Tan, L. C., Nancharaiyah, Y. V., Lu, S., van Hullebusch, E. D., Gerlach, R. & Lens, P. N. L., 1 Nov 2018, In : Chemosphere. 211, p. 684-693 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Biomass characterization of laboratory-scale thermophilic-mesophilic wastewater treatment processes

Suvilampi, J., Lehtomäki, A. & Rintala, J., Jan 2006, In : Environmental Technology. 27, 1, p. 41-51 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Breaking dormancy: An energy-efficient means of recovering astaxanthin from microalgae

Ramasamy, P., Lee, K., Lee, J. & Oh, Y. K., 1 Feb 2015, In : Green Chemistry. 17, 2, p. 1226-1234 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Cell toxicity and oxidative potential of engine exhaust particles: Impact of using particulate filter or biodiesel fuel blend

Gerlofs-Nijland, M. E., Totlandsdal, A. I., Tzamkiozis, T., Leseman, D. L. A. C., Samaras, Z., Låg, M., Schwarze, P., Ntziachristos, L. & Cassee, F. R., 4 Jun 2013, In : Environmental Science and Technology. 47, 11, p. 5931-5938 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Characterisation and anaerobic batch degradation of materials accumulating in anaerobic digesters treating poultry slaughterhouse waste

Salminen, E., Einola, J. & Rintala, J., 2001, In : Environmental Technology. 22, 5, p. 577-585 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Chemolithotrophic denitrification in biofilm reactors

Di Capua, F., Papirio, S., Lens, P. N. L. & Esposito, G., 2015, In : Chemical Engineering Journal. 280, p. 643-657 15 p.

Research output: Contribution to journal › Article › Scientific › peer-review

CO-digestion of grass silage and cow manure in a CSTR by re-circulation of alkali treated solids of the digestate

Jagadabhi, P. S., Lehtomäki, A. & Rintala, J., Oct 2008, In : Environmental Technology. 29, 10, p. 1085-1093 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Comparative performance of a thermal denuder and a catalytic stripper in sampling laboratory and marine exhaust aerosols

Amanatidis, S., Ntziachristos, L., Karjalainen, P., Saukko, E., Simonen, P., Kuittinen, N., Aakko-Saksa, P., Timonen, H., Rönkkö, T. & Keskinen, J., 2018, In : Aerosol Science and Technology. 52, 4, p. 1-13 13 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Comparison of activated sludge processes at different temperatures: 35°C, 2-55°C, and 55°C

Suvilampi, J. & Rintala, J., 2002, In : Environmental Technology. 23, 10, p. 1127-1133 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Considerations in analysing elemental carbon from marine engine exhaust using residual, distillate and biofuels

Aakko-Saksa, P., Koponen, P., Aurela, M., Vesala, H., Piimäkorpi, P., Murtonen, T., Sippula, O., Koponen, H., Karjalainen, P., Kuittinen, N., Panteliadis, P., Rönkkö, T. & Timonen, H., Dec 2018, In : Journal of Aerosol Science. 126, p. 191-204 14 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Detection of gaseous species during KCl-induced high-temperature corrosion by the means of CPFAAS and CI-API-TOF

Lehmusto, J., Olin, M., Viljanen, J., Kalliokoski, J., Mylläri, F., Toivonen, J., Dal Maso, M. & Hupa, L., 30 Aug 2019, In : Materials and Corrosion. 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Determination of chlorinated 5-methyl-5-hydroxyfuranones in drinking water, in chlorinated humic water, and in pulp bleaching liquor

Franzén, R. & Kronberg, L., 1994, In : Environmental Science and Technology. 28, 12, p. 2222-2227 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Differential diffusion analyzer

Arffman, A., Juuti, P., Harra, J. & Keskinen, J., 2017, In : Aerosol Science and Technology. 51, 12, p. 1429-1437

Research output: Contribution to journal › Article › Scientific › peer-review

Distinguishing fuel and lubricating oil combustion products in diesel engine exhaust particles

Carbone, S., Timonen, H. J., Rostedt, A., Happonen, M., Rönkkö, T., Keskinen, J., Ristimäki, J., Korpi, H., Artaxo, P., Canagaratna, M., Worsnop, D., Canonaco, F., Prévôt, A. S. H., Hillamo, R. & Saarikoski, S., 4 May 2019, In : *Aerosol Science and Technology*. 53, 5, p. 594-607 14 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Downstream integration of microalgae harvesting and cell disruption by means of cationic surfactant-decorated Fe₃O₄ nanoparticles

Seo, J. Y., Ramasamy, P., Kim, B., Seo, J. C., Park, J. Y., Na, J. G., Jeon, S. G., Park, S. B., Lee, K. & Oh, Y. K., 2016, In : *Green Chemistry*. 18, 14, p. 3981-3989 9 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Editorial

Lämsivaara, T., 17 Dec 2018, In : *Environmental Geotechnics*. 5, 6, 1 p.

Research output: Contribution to journal > Editorial > Scientific

Effect of macro- and micro-nutrients addition during anaerobic mono-digestion of grass silage in leach-bed reactors

Jagadabhi, P. S., Kaparaju, P., Väisänen, A. & Rintala, J., 2019, In : *Environmental Technology*. 40, 4, p. 418-429 12 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of tungsten and selenium on C₁ gas bioconversion by an enriched anaerobic sludge and microbial community analysis

Chakraborty, S., Rene, E. R., Lens, P. N. L., Rintala, J., Veiga, M. C. & Kennes, C., 2020, In : *Chemosphere*. 250, 9 p., 126105.

Research output: Contribution to journal > Article > Scientific > peer-review

Effects of anode materials on electricity production from xylose and treatability of TMP wastewater in an up-flow microbial fuel cell

Haavisto, J., Dessì, P., Chatterjee, P., Honkanen, M., Noori, M. T., Kokko, M., Lakaniemi, A. M., Lens, P. N. L. & Puhakka, J. A., 15 Sep 2019, In : *Chemical Engineering Journal*. 372, p. 141-150 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Effects of fresh lubricant oils on particle emissions emitted by a modern gasoline direct injection passenger car

Pirjola, L., Karjalainen, P., Heikkilä, J., Saari, S., Tzamkiozis, T., Ntziachristos, L., Kulmala, K., Keskinen, J. & Rönkkö, T., 17 Mar 2015, In : *Environmental Science and Technology*. 49, 6, p. 3644-3652 9 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Effects of temperature on post-methanation of digested dairy cow manure in a farm-scale biogas production system

Kaparaju, P. L. N. & Rintala, J. A., 2003, In : *Environmental Technology*. 24, 10, p. 1315-1321 7 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Emission measurements with gravimetric impactors and electrical devices: An aerosol instrument comparison

Salo, L., Mylläri, F., Maasikmets, M., Niemelä, V., Konist, A., Vainumäe, K., Kupri, H. L., Titova, R., Simonen, P., Aurela, M., Bloss, M., Keskinen, J., Timonen, H. & Rönkkö, T., 1 Mar 2019, In : *Aerosol Science and Technology*. 53, 5, p. 526-539 14 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Evaluation of an oxidation catalyst ("catalytic stripper") in eliminating volatile material from combustion aerosol

Amanatidis, S., Ntziachristos, L., Giechaskiel, B., Katsaounis, D., Samaras, Z. & Bergmann, A., Mar 2013, In : *Journal of Aerosol Science*. 57, p. 144-155 12 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Extending the Faraday cup aerosol electrometer based calibration method up to 5 µm

Järvinen, A., Keskinen, J. & Yli-Ojanperä, J., 3 Aug 2018, In : *Aerosol Science and Technology*. 52, 8, p. 828-840 13 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Fabrication of fiber filters with antibacterial properties for VOC and particle removal

Juuti, P., Nikka, M., Gunell, M., Eerola, E., Saarinen, J. J., Omori, Y., Seto, T. & Mäkelä, J. M., 1 Aug 2019, In : *Aerosol and Air Quality Research*. 19, 8, p. 1892-1899 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Flow rate-independent electrical aerosol sensor

Rostedt, A. & Keskinen, J., 2018, In : *Aerosol Science and Technology*. 52, 11, p. 1283-1292

Research output: Contribution to journal › Article › Scientific › peer-review

Hierarchical Self-Assembly of Halogen-Bonded Block Copolymer Complexes into Upright Cylindrical Domains

Milani, R., Houbenov, N., Fernandez-Palacio, F., Cavallo, G., Luzio, A., Haataja, J., Giancane, G., Saccone, M., Priimägi, A., Metrangolo, P. & Ikkala, O., 9 Mar 2017, In : *CheM*. 2, 3, p. 417-426 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Higher Cd adsorption on biogenic elemental selenium nanoparticles

Jain, R., Dominic, D., Jordan, N., Rene, E. R., Weiss, S., van Hullebusch, E. D., Hübner, R. & Lens, P. N. L., Sep 2016, In : *ENVIRONMENTAL CHEMISTRY LETTERS*. 14, 3, p. 381-386 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

High Nitrogen Removal in a Constructed Wetland Receiving Treated Wastewater in a Cold Climate

Uusheimo, S., Huotari, J., Tulonen, T., Aalto, S. L., Rissanen, A. J. & Arvola, L., 20 Nov 2018, In : *Environmental science & technology*. 52, 22, p. 13343-13350 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

High-solids anaerobic digestion requires a trade-off between total solids, inoculum-to-substrate ratio and ammonia inhibition

Pastor-Poquet, V., Papirio, S., Trably, E., Rintala, J., Escudié, R. & Esposito, G., 2019, In : *INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY*.

Research output: Contribution to journal › Article › Scientific › peer-review

HPLC-SEC: a new approach to characterise complex wastewater effluents

Szabo, H. M., Lepistö, R. & Tuhkanen, T., 19 Feb 2016, In : *International Journal of Environmental Analytical Chemistry*. 96, 3, p. 257-270 14 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Identification of single microbial particles using electro-dynamic balance assisted laser-induced breakdown and fluorescence spectroscopy

Saari, S., Järvinen, S., Reponen, T., Mensah-Attipoe, J., Pasanen, P., Toivonen, J. & Keskinen, J., 1 Feb 2016, In : *Aerosol Science and Technology*. 50, 2, p. 126-132 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Impact of selective catalytic reduction on exhaust particle formation over excess ammonia events

Amanatidis, S., Ntziachristos, L., Giechaskiel, B., Bergmann, A. & Samaras, Z., 7 Oct 2014, In : *Environmental Science and Technology*. 48, 19, p. 11527-11534 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Improving the signal-to-noise ratio of Faraday cup aerosol electrometer based aerosol instrument calibrations

Pihlava, K., Keskinen, J. & Yli-Ojanperä, J., 2 Apr 2016, In : *Aerosol Science and Technology*. 50, 4, p. 373-379 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Improving urban air quality measurements by a diffusion charger based electrical particle sensors: A field study in Beijing, China

Dal Maso, M., Gao, J., Järvinen, A., Li, H., Luo, D., Janka, K. & Rönkkö, T., 1 Dec 2016, In : *Aerosol and Air Quality Research*. 16, 12, p. 3001-3011 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Indoor thermal environment, air exchange rates, and carbon dioxide concentrations before and after energy retro fits in Finnish and Lithuanian multi-family buildings

Leivo, V., Prasauskas, T., Du, L., Turunen, M., Kiviste, M., Aaltonen, A., Martuzevicius, D. & Haverinen-Shaughnessy, U., 2017, In : Science of the Total Environment. 621, p. 398-406 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Induction of genotoxic effects by chlorohydroxyfuranones, byproducts of water disinfection, in E. coli K-12 cells recovered from various organs of mice

Fekadu, K., Parzefall, W., Kronberg, L., Franzen, R., Schulte-Hermann, R. & Knasmüller, S., 1994, In : Environmental and Molecular Mutagenesis. 24, 4, p. 317-324 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Influence of electron acceptor availability and microbial community structure on sedimentary methane oxidation in a boreal estuary

Myllykangas, J. P., Rissanen, A. J., Hietanen, S. & Jilbert, T., 2020, In : BIOGEOCHEMISTRY. 148, 3, p. 291-309 19 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Internal leachate quality in a municipal solid waste landfill: Vertical, horizontal and temporal variation and impacts of leachate recirculation

Sormunen, K., Ettala, M. & Rintala, J., 30 Dec 2008, In : Journal of Hazardous Materials. 160, 2-3, p. 601-607 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Isolation of a MX-guanosine adduct formed at physiological conditions

Franzén, R., Tanabe, K. & Morita, M., Jun 1998, In : Chemosphere. 36, 13, p. 2803-2808 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Kinetics and modelling of thiosulphate biotransformations by haloalkaliphilic Thioalkalivibrio versutus

Hajdu-Rahkama, R., Özkaya, B., Lakaniemi, A. M. & Puhakka, J. A., 2020, In : Chemical Engineering Journal. 401, 9 p., 126047.

Research output: Contribution to journal › Article › Scientific › peer-review

Landfill methane oxidation in engineered soil columns at low temperature

Kettunen, R. H., Einola, J. K. M. & Rintala, J. A., Nov 2006, In : Water Air and Soil Pollution. 177, 1-4, p. 313-334 22 p.

Research output: Contribution to journal › Article › Scientific › peer-review

London Hybrid Exposure Model: Improving Human Exposure Estimates to NO₂ and PM_{2.5} in an Urban Setting

Smith, J. D., Mitsakou, C., Kitwiroon, N., Barratt, B. M., Walton, H. A., Taylor, J. G., Anderson, H. R., Kelly, F. J. & Beevers, S. D., 1 Nov 2016, In : Environmental Science and Technology. 50, 21, p. 11760-11768 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Low concentration of zeolite to enhance microalgal growth and ammonium removal efficiency in a membrane photobioreactor

Tao, R., Bair, R., Pickett, M., Calabria, J. L., Lakaniemi, A-M., van Hullebusch, E. D., Rintala, J. A. & Yeh, D. H., 2020, In : Environmental Technology. 15 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Measurement of the human respiratory tract deposited surface area of particles with an electrical low pressure impactor

Lepistö, T., Kuuluvainen, H., Juuti, P., Järvinen, A., Arffman, A. & Rönkkö, T., 2020, In : Aerosol Science and Technology. 54, 8, p. 958-971 15 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Methane oxidation in a boreal climate in an experimental landfill cover composed from mechanically-biologically treated waste

Einola, J-K. M., Sormunen, K. M. & Rintala, J. A., 15 Dec 2008, In : Science of the Total Environment. 407, 1, p. 67-83 17 p.

MicroEnv: A microsimulation model for quantifying the impacts of environmental policies on population health and health inequalities

Symonds, P., Hutchinson, E., Ibbetson, A., Taylor, J., Milner, J., Chalabi, Z., Davies, M. & Wilkinson, P., 20 Dec 2019, In : *Science of the Total Environment*. 697, 134105.

Research output: Contribution to journal › Article › Scientific › peer-review

Molecular Composition and Volatility of Nucleated Particles from α -Pinene Oxidation between -50 °c and +25 °c

Ye, Q., Wang, M., Hofbauer, V., Stolzenburg, D., Chen, D., Schervish, M., Vogel, A., Mauldin, R. L., Baalbaki, R., Brilke, S., Dada, L., Dias, A., Duplissy, J., El Haddad, I., Finkenzeller, H., Fischer, L., He, X., Kim, C., Kürten, A., Lamkaddam, H., Lee, C. P., Lehtipalo, K., Leiminger, M., Manninen, H. E., Marten, R., Mentler, B., Partoll, E., Petäjä, T., Rissanen, M., Schobesberger, S., Schuchmann, S., Simon, M., Tham, Y. J., Vazquez-Pufleau, M., Wagner, A. C., Wang, Y., Wu, Y., Xiao, M., Baltensperger, U., Curtius, J., Flagan, R., Kirkby, J., Kulmala, M., Volkamer, R., Winkler, P. M., Worsnop, D. & Donahue, N. M., 5 Nov 2019, In : *Environmental Science and Technology*. 53, 21, p. 12357-12365 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Mutation spectra of the drinking water mutagen 3-chloro-4-methyl-5- hydroxy-2(5H)-furanone (MCF) in Salmonella TA100 and TA104: Comparison to MX

Shaughnessy, D. T., Ohe, T., Landi, S., Warren, S. H., Richard, A. M., Munter, T., Franzén, R., Kronberg, L. & DeMarini, D. M., 2000, In : *Environmental and Molecular Mutagenesis*. 35, 2, p. 106-113 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Nanocluster Aerosol Emissions of a 3D Printer

Poikkimäki, M., Koljonen, V., Leskinen, N., Närhi, M., Kangasniemi, O., Kausiala, O. & Dal Maso, M., 7 Nov 2019, In : *Environmental Science and Technology*. 53, 23, p. 13618-13628 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Occurrence and removal of organic pollutants in sewages and landfill leachates

Martinen, S. K., Kettunen, R. H. & Rintala, J. A., 1 Jan 2003, In : *Science of the Total Environment*. 301, 1-3, p. 1-12 12 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Occurrence of some chlorinated enol lactones and cyclopentene-1,3-diones in chlorine-treated waters

Smeds, A., Franzen, R. & Kronberg, L., 1995, In : *Environmental Science and Technology*. 29, 7, p. 1839-1844 6 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Optimised selection of new protective coatings for biofuel boiler applications

Tuurna, S., Varis, T., Penttilä, K., Ruusuvoori, K., Holmström, S. & Yli-Olli, S., Jul 2011, In : *Materials and Corrosion-Werkstoffe und Korrosion*. 62, 7, p. 642-649 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Particle growth with photochemical age from new particle formation to haze in the winter of Beijing, China

Chu, B., Dada, L., Liu, Y., Yao, L., Wang, Y., Du, W., Cai, J., Dällenbach, K. R., Chen, X., Simonen, P., Zhou, Y., Deng, C., Fu, Y., Yin, R., Li, H., He, X. C., Feng, Z., Yan, C., Kangasluoma, J., Bianchi, F., Jiang, J., Kujansuu, J., Kerminen, V. M., Petäjä, T., He, H. & Kulmala, M., 2020, In : *Science of the Total Environment*. 753, 7 p., 142207.

Research output: Contribution to journal › Article › Scientific › peer-review

Performance evaluation of the HR-ELPI + inversion

Saari, S., Arffman, A., Harra, J., Rönkkö, T. & Keskinen, J., 2 Sep 2018, In : *Aerosol Science and Technology*. 52, 9, p. 1037-1047 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Performance of ventilation filtration technologies on characteristic traffic related aerosol down to nanocluster size

Karjalainen, P., Saari, S., Kuuluvainen, H., Kalliohaka, T., Taipale, A. & Rönkkö, T., 2017, In : *Aerosol Science and Technology*. 51, 12, p. 1398-1408 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Photo-oxidation of Aromatic Hydrocarbons Produces Low-Volatility Organic Compounds

Wang, M., Chen, D., Xiao, M., Ye, Q., Stolzenburg, D., Hofbauer, V., Ye, P., Vogel, A. L., Mauldin, R. L., Amorim, A., Baccarini, A., Baumgartner, B., Brilke, S., Dada, L., Dias, A., Duplissy, J., Finkenzeller, H., Garmash, O., He, X. C., Hoyle, C. R., Kim, C., Kvashnin, A., Lehtipalo, K., Fischer, L., Molteni, U., Petäjä, T., Pospisilova, V., Quéléver, L. L. J., Rissanen, M., Simon, M., Tauber, C., Tomé, A., Wagner, A. C., Weitz, L., Volkamer, R., Winkler, P. M., Kirkby, J., Worsnop, D. R., Kulmala, M., Baltensperger, U., Dommen, J., El-Haddad, I. & Donahue, N. M., 2020, In : Environmental Science and Technology. 54, 13, p. 7911-7921 11 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Physical and Chemical Characterization of Real-World Particle Number and Mass Emissions from City Buses in Finland

Pirjola, L., Dittrich, A., Niemi, J. V., Saarikoski, S., Timonen, H., Kuuluvainen, H., Järvinen, A., Kousa, A., Rönkkö, T. & Hillamo, R., 5 Jan 2016, In : Environmental Science and Technology. 50, 1, p. 294-304 11 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Physical Characteristics of Particle Emissions from a Medium Speed Ship Engine Fueled with Natural Gas and Low-Sulfur Liquid Fuels

Alanen, J., Iotalo, M., Kuittinen, N., Simonen, P., Martikainen, S., Kuuluvainen, H., Honkanen, M., Lehtoranta, K., Nyysönen, S., Vesala, H., Timonen, H., Aurela, M., Keskinen, J. & Rönkkö, T., 5 May 2020, In : Environmental Science and Technology. 54, 9, p. 5376-5384 9 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles

Jain, R., Dominic, D., Jordan, N., Rene, E. R., Weiss, S., van Hullebusch, E. D., Hübner, R. & Lens, P. N. L., 2016, In : Chemical Engineering Journal. 284, p. 917-925

Research output: Contribution to journal > Article > Scientific > peer-review

Quantitative characterization of pore structure of several biochars with 3D imaging

Hyväluoma, J., Kulju, S., Hannula, M., Wikberg, H., Källi, A. & Rasa, K., Sep 2018, In : Environmental Science and Pollution Research. 25, 26, p. 1-11 11 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Real-time effective density monitor (DENSMO) for aerosol nanoparticle production

Juuti, P., Arffman, A., Rostedt, A., Harra, J., Mäkelä, J. M. & Keskinen, J., 3 May 2016, In : Aerosol Science and Technology. 50, 5, p. 487-496 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Recovering Nitrogen as a Solid without Chemical Dosing: Bio-Electroconcentration for Recovery of Nutrients from Urine

Ledezma, P., Jermakka, J., Keller, J. & Freguia, S., 14 Mar 2017, In : Environmental Science and Technology Letters. 4, 3, p. 119-124 6 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Release and characteristics of fungal fragments in various conditions

Mensah-Attipoe, J., Saari, S., Veijalainen, A. M., Pasanen, P., Keskinen, J., Leskinen, J. T. T. & Reponen, T., 15 Mar 2016, In : Science of the Total Environment. 547, p. 234-243 10 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Removal of DEHP in composting and aeration of sewage sludge

Martinen, S. K., Hänninen, K. & Rintala, J. A., Jan 2004, In : Chemosphere. 54, 3, p. 265-272 8 p.

Research output: Contribution to journal > Article > Scientific > peer-review

Review of motor vehicle particulate emissions sampling and measurement: From smoke and filter mass to particle number

Giechaskiel, B., Maricq, M., Ntziachristos, L., Dardiotis, C., Wang, X., Axmann, H., Bergmann, A. & Schindler, W., Jan 2014, In : Journal of Aerosol Science. 67, p. 48-86 39 p.

Research output: Contribution to journal > Review Article > Scientific > peer-review

Ring-chain tautomerism of chlorinated hydroxyfuranones and reaction with nucleosides

Franzén, R., Tanabe, K. & Morita, M., Feb 1999, In : Chemosphere. 38, 5, p. 973-980 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Screening for potential fermentative hydrogen production from black water and kitchen waste in on-site UASB reactor at 20°C

Luostarinen, S., Pakarinen, O. & Rintala, J., Jun 2008, In : Environmental Technology. 29, 6, p. 691-699 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Screening of physical-chemical methods for removal of organic material, nitrogen and toxicity from low strength landfill leachates

Martinen, S. K., Kettunen, R. H., Sormunen, K. M., Soimasuo, R. M. & Rintala, J. A., 2002, In : Chemosphere. 46, 6, p. 851-858 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Screening pretreatment methods to enhance thermophilic anaerobic digestion of pulp and paper mill wastewater treatment secondary sludge

Bayr, S., Kaparaju, P. & Rintala, J., 1 May 2013, In : Chemical Engineering Journal. 223, p. 479-486 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Seasonal and diurnal variations of fluorescent bioaerosol concentration and size distribution in the urban environment

Saari, S., Niemi, J. V., Rönkkö, T., Kuuluvainen, H., Järvinen, A., Pirjola, L., Aurela, M., Hillamo, R. & Keskinen, J., 2015, In : Aerosol and Air Quality Research. 15, 2, p. 572-581 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Soft hydrazone crosslinked hyaluronan- and alginate-based hydrogels as 3D supportive matrices for human pluripotent stem cell-derived neuronal cells

Karvinen, J., Joki, T., Ylä-Outinen, L., Koivisto, J. T., Narkilahti, S. & Kellomäki, M., 1 Mar 2018, In : Reactive and Functional Polymers. 124, p. 29-39 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Sorption of zinc onto elemental selenium nanoparticles immobilized in Phanerochaete chrysosporium pellets

Espinosa-Ortiz, E. J., Shakya, M., Jain, R., Rene, E. R., van Hullebusch, E. D. & Lens, P. N. L., 2016, In : Environmental Science and Pollution Research. 23, 21, p. 21619-21630 12 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Stabilisation of MSWI bottom ash with sulphide-rich anaerobic effluent

Sivula, L., Väisänen, A. & Rintala, J., Mar 2008, In : Chemosphere. 71, 1, p. 1-9 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Stable carbon isotopic composition of peat columns, subsoil and vegetation on natural and forestry-drained boreal peatlands

Nykänen, H., Mpamah, P. A. & Rissanen, A. J., 2018, In : Isotopes in Environmental and Health Studies. 54, 6

Research output: Contribution to journal › Article › Scientific › peer-review

Strategies To Diminish the Emissions of Particles and Secondary Aerosol Formation from Diesel Engines

Karjalainen, P., Rönkkö, T., Simonen, P., Ntziachristos, L., Juuti, P., Timonen, H., Teinilä, K., Saarikoski, S., Saveljeff, H., Lauren, M., Happonen, M., Matilainen, P., Maunula, T., Nuottimäki, J. & Keskinen, J., 3 Sep 2019, In : Environmental science & technology. 53, 17, p. 10408-10416 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Sulphate-reducing laboratory-scale high-rate anaerobic reactors for treatment of metal-and sulphate-containing mine wastewater

Tuppurainen, K. O., Väisänen, A. O. & Rintala, J. A., 2002, In : Environmental Technology. 23, 6, p. 599-608 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Testing the near field/far field model performance for prediction of particulate matter emissions in a paint factory

Koivisto, A. J., Jensen, A. C. Ø., Levin, M., Kling, K. I., Maso, M. D., Nielsen, S. H., Jensen, K. A. & Koponen, I. K., 1 Jan 2015, In : Environmental Sciences: Processes and Impacts. 17, 1, p. 62-73 12 p.

Research output: Contribution to journal › Article › Scientific › peer-review

The critical velocity of rebound determined for sub-micron silver particles with a variable nozzle area impactor

Arffman, A., Kuuluvainen, H., Harra, J., Vuorinen, O., Juuti, P., Yli-Ojanperä, J., Mäkelä, J. & Keskinen, J., 1 Aug 2015, In : Journal of Aerosol Science. 86, p. 32-43 12 p.

Research output: Contribution to journal › Article › Scientific › peer-review

The effects of nutrients on natural organic matter (NOM) removal in biological activated carbon (BAC) filtration

Vahala, R., Moramarco, V., Niemi, R. M., Rintala, J. & Laukkanen, R., May 1998, In : Acta Hydrochimica et Hydrobiologica. 26, 3, p. 196-199 4 p.

Research output: Contribution to journal › Article › Scientific › peer-review

The effects of post-treatments and temperature on recovering the methane potential of >2 mm solid fraction of digested cow manure

Kaparaju, P. L. N. & Rintala, J. A., Jun 2005, In : Environmental Technology. 26, 6, p. 625-631 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

The evaluation of drinking water treatment performed with HPSEC

Vuorio, E., Vahala, R., Rintala, J. & Laukkanen, R., Jul 1998, In : Environment International. 24, 5-6, p. 617-623 7 p.

Research output: Contribution to journal › Article › Scientific › peer-review

The mechanism of the oxidation of benzyl alcohol by iron(III)nitrate: Conventional versus microwave heating

Dressen, M. H. C. L., Stumpel, J. E., Van De Kruijs, B. H. P., Meuldijk, J., Vekemans, J. A. J. M. & Hulshof, L. A., 2009, In : Green Chemistry. 11, 1, p. 60-64 5 p.

Research output: Contribution to journal › Article › Scientific › peer-review

The methane production of poultry slaughtering residues and effects of pre-treatments on the methane production of poultry feather

Salminen, E., Einola, J. & Rintala, J., 2003, In : Environmental Technology. 24, 9, p. 1079-1086 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Thermophilic anaerobic digestion of industrial orange waste

Kaparaju, P. L. N. & Rintala, J. A., Jun 2006, In : Environmental Technology. 27, 6, p. 623-633 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Toward elemental analysis of ambient single particles using electrodynamic balance and laser-induced breakdown spectroscopy

Heikkilä, P., Rossi, J., Rostedt, A., Huhtala, J., Järvinen, A., Toivonen, J. & Keskinen, J., 2020, In : Aerosol Science and Technology.

Research output: Contribution to journal › Article › Scientific › peer-review

Towards bioproduction of poly- α -olefins from lignocellulose

Salmela, M., Lehtinen, T., Efimova, E., Santala, S. & Santala, V., 2020, In : Green Chemistry. 22, 15, p. 5067-5076 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Triboelectric charging of fungal spores during resuspension and rebound

Kuuluvainen, H., Saari, S., Mensah-Attipoe, J., Arffman, A., Pasanen, P., Reponen, T. & Keskinen, J., 1 Feb 2016, In : Aerosol Science and Technology. 50, 2, p. 187-197 11 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Tri-functionality of Fe₃O₄-embedded carbon microparticles in microalgae harvesting

Seo, J. Y., Lee, K., Ramasamy, P., Kim, B., Lee, S. Y., Oh, Y. K. & Park, S. B., 5 Nov 2015, In : Chemical Engineering Journal. 280, p. 206-214 9 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Volatile fatty acid production from Kraft mill foul condensate in upflow anaerobic sludge blanket reactors

Eregowda, T., Kokko, M. E., Rene, E. R., Rintala, J. & Lens, P. N. L., 2020, In : Environmental Technology (United Kingdom). 14 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Weathering of gasification and grate bottom ash in anaerobic conditions

Sivula, L., Ilander, A., Väisänen, A. & Rintala, J., 15 Feb 2010, In : Journal of Hazardous Materials. 174, 1-3, p. 344-351 8 p.

Research output: Contribution to journal › Article › Scientific › peer-review

Why social sustainability counts: The impact of corporate social sustainability culture on financial success

Schönborn, G., Berlin, C., Pinzone, M., Hanisch, C., Georgoulas, K. & Lanz, M., 1 Jan 2019, In : Sustainable Production and Consumption. 17, p. 1-10 10 p.

Research output: Contribution to journal › Article › Scientific › peer-review