

### **Ympäristö- ja vesihistorian tutkimuksesta 2000-luvulla Suomessa**

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### **Vapor phase processing of $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> photoelectrodes for water splitting: An insight into the structure/property interplay**

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#### **UV irradiation for Micropollutant removal from aqueous solution in the presence of H<sub>2</sub>O<sub>2</sub>**

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#### **Utilizing Gelatinized Starchy Waste from Rice Noodle Factory as Substrate for L(+)-Lactic Acid Production by Amyolytic Lactic Acid Bacterium *Enterococcus faecium* K-1**

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#### **Use of factorial experimental design to study the effects of iron and sulfur on growth of *Scenedesmus acuminatus* with different nitrogen sources**

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Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

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

### **Ulkoistaminen apuväline vesihuoltoverkostojen kunnossapitoon?**

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Research output: Contribution to journal > Article > Professional

### **Työntekijöiden altistuminen sähkö- ja magneettikentille 110 kV sähköasemien työtehtävissä**

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Research output: Book/Report > Commissioned report > Professional

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### **Tutkimustoiminnalla turvallisuutta ja toimintavarmuutta: päätös panostaa omaan jätevesilaboratorioon**

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Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

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Luomala, H., 15 Nov 2016

Research output: Other contribution > Scientific

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Research output: Contribution to journal > Article > Scientific

### **Turning up the heat on printability**

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Research output: Contribution to journal > Article > Scientific

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Research output: Contribution to journal > Article > Professional

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

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

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Research output: Other conference contribution > Paper, poster or abstract > Scientific

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Research output: Contribution to journal > Article > Professional

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### **The designing and the implementation of WWW-course &quot;Electricity, Electronics and Environment&quot;**

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Research output: Other conference contribution › Paper, poster or abstract › Scientific

### **The application of HPLC-SEC for the simultaneous characterization of NOM and nitrate in well waters**

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

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Research output: Contribution to journal › Article › Professional

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### **Technical suitability of the fine fraction of municipal solid waste incineration bottom ash to the landfill capping liner**

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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Research output: Contribution to journal › Article › Professional

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Research output: Working paper › Discussion paper › Professional

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### **Syytä olla ylpeä**

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

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### **Suomen vesihuollon kehitys kansainvälisessä kontekstissa**

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### **Subpicosecond to Second Time-Scale Charge Carrier Kinetics in Hematite-Titania Nanocomposite Photoanodes**

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### **Students' Perceived Priorities on Water as a Human Right, Natural Resource, and Multiple Goods**

Rajala, R. P., Katko, T. S. & Springe, G., 2019, In : *Sustainability*. 11, 22, 6354.

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

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

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Mönkäre, T., Palmroth, M. R. T. & Rintala, J., 2014, *Proceedings SUM 2014, Second Symposium on Urban Mining, Bergamo, Italy, 19-21 May, 2014 : Organised by IWWG - International Waste Working Group*. CISA Publishers, p. 1-11 11 p.

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Rinta-Kanto, J. M. & Timonen, S., 2020, In : *EUROPEAN JOURNAL OF SOIL BIOLOGY*. 97, 7 p., 103168.

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

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

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

#### **Social Norms in Water Services: Exploring the Fair Price of Water**

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

#### **Sleepers**

Luomala, H., 24 Nov 2016

Research output: Other contribution > Scientific

#### **Sisäympäristön laadun ja terveellisuuden arviointi energiaparannuskohteissa**

Mari, T., Leivo, V., Pekkonen, M., Aaltonen, A., Kiviste, M. & Haverinen-Shaughnessy, U., 16 Mar 2016, *Sisäilmastoseminaari 2016, Sisäilmayhdistys raportti 34*. SIY SISÄILMATIETO OY, p. 13-18 6 p.

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### **Päätelmät yhdyskuntajätehuollon markkinainnovaatioista - taustat, kiistat ja sovellukset**

Valkama, P., Heino, O. & Kallio, O., 2013, *Markkinainnovaatiot yhdyskuntajätehuollossa : tutkimus jätehuoltopalvelujen markkinoiden evoluutiosta, sovelluksista ja jännitteistä kunnallisen ja yksityisen sektorin rajapinnassa*. Valkama, P. (ed.). Tampere: Tampereen yliopisto, Johtamiskorkeakoulu, p. 159-170 12 p.

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### **Pääkirjoitus : Vesihuoltolaitosten historiat imagon nostajana / Editorial : Relevance of history for current water services management and governance**

Katko, T. S., 2013, In : *Ympäristöhistoria: Finnish Journal of Environmental History*. 2, 3 p.

Research output: Contribution to journal › Article › Scientific

### **Pääkirjoitus. Veden keskeinen merkitys yhteiskunnassa ja yhdyskunnissa**

Katko, T., 2011, In : *Ympäristöhistoria: Finnish Journal of Environmental History*. 1, 2, p. 4-7

Research output: Contribution to journal › Article › Scientific

### **Pääkaupunkiseudun moderni jätevedenpuhdistus ja Viikinmäen puhdistamo**

Juuti, P. & Rajala, R., 2010, *Metropoli ja meri - 100 vuotta jätevedenpuhdistusta Helsingissä*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 91-113

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### **Osuuskunnat mukaan infrastruktuuripolitiikkaan**

Heino, O. & Anttiroiko, A-V., 2014, In : *Osuustoiminta*. 105, 5, p. 54-54 1 p.

Research output: Contribution to journal › Article › Professional

### **Operationalising the right to water and sanitation and gender equality via appropriate technology in rural Nepal**

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### **Opening of the seminar**

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Research output: Other conference contribution › Paper, poster or abstract › Scientific

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

### **Occupational exposure to electric fields and induced currents associated with 400 kV substation tasks from different service platforms**

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

#### **Occupational Exposure to Electric and Magnetic Fields While Working at Switching and Transforming Stations of 110 kV**

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

#### **Occupational exposure to electric and magnetic fields during work tasks at 110 kV substations in the Tampere region**

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

#### **Nutrient and organic matter removal from wastewaters with microalgae**

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Research output: Book/Report › Doctoral thesis › Collection of Articles

#### **Numerical modeling of fine particle and deposit formation in a recovery boiler**

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

#### **Nitrogen recovery from reject water in a 3-chamber bioelectroconcentration cell**

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#### **Negotiating water governance: towards cooperation in contentious groundwater recharge projects**

Kurki, V., 2016, *Proceedings of the CIB World Building Congress 2016: Volume I - Creating built environments of new opportunities*. Tampere University of Technology. Department of Civil Engineering, p. 91-102

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

#### **Negotiating Groundwater Governance: Lessons from Contentious Aquifer Recharge Projects**

Kurki, V., 17 Jun 2016, Tampere University of Technology. 76 p. (Tampere University of Technology. Publication; vol. 1387)

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**Missä, missä se kaivo on?**

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**Mine wastewater treatment using Phalaris arundinacea plant material hydrolyzate as substrate for sulfate-reducing bioreactor**

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

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**Methylophilaceae and Hyphomicrobium as target taxonomic groups in monitoring the function of methanol-fed denitrification biofilters in municipal wastewater treatment plants**

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#### **Mental symptoms and the use of new technical equipment**

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### **KUPERA-kaupunkien teknisen sektorin johto kaipaa toimintakulttuuriin muutosta : Haasteista innovatiivisiin mahdollisuuksiin**

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**Konvergenssi ja divergenssi ongelmatyyppien luonnehtijoina: Esimerkkinä vesihuoltoinfrastruktuurin ikääntyminen**

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**Kokemus: Kajaanin vesihuollon ammattilaisten kokemukset ja näkemykset**

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

**Kokeellinen tutkimus savupiipun läpivientieristeen orgaanisen aineen palamisen vaikutuksesta paloturvallisuuteen**

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

**Kohti puhtaampaa Itämerta**

Juuti, P. & Rajala, R., 2010, *Metropoli ja meri - 100 vuotta jätevedenpuhdistusta Helsingissä*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 135-142

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

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**Kirja-arviointi: Yliopistomme vaarassa hukkaa byrokratiaan. Pekka Kauppi. Kahlittu yliopistomme. Miten vapaudumme byrokratiasta ja opetuksen ylenkatsomisesta. Into Kustannus Oy. 2017.**

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Research output: Contribution to journal › Article › Scientific

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**Kinetics of biomass pyrolysis**

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**Kasvun ja veden kausi – I vesilaitoksesta II maailmansotaan**

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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Research output: Contribution to journal › Article › Professional

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Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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#### **Inhibitory effects of substrate and soluble end products on biohydrogen production of the alkalithermophile *Caloramator celer*: Kinetic, metabolic and transcription analyses**

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**Increasing oxygen deficiency changes rare and moderately abundant bacterial communities in coastal soft sediments**

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**Improved water services cooperation through clarification of rules and roles**

Inha, L. M., Katko, T. S. & Rajala, R. P., 19 Oct 2019, In : Water (Switzerland). 11, 10, 2172.

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**Improved bioconversion of crude glycerol to hydrogen by statistical optimization of media components**

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#### **Hydrothermal carbonization of pulp mill streams**

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**Helsinki sai ensimmäisen puhdistamonsa 1910; Helsinki gained its first wastewater treatment plant 1910**

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### **Geo + Ympäristö = Ympäristögeotekniikka?**

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**Fungal treatment of landfill mining fine fraction to increase its stability and end-use potential**

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**Foreword Towards More Resilient Water Services**

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**Detecting bioavailable toxic metals and metalloids from natural water samples using luminescent sensor bacteria**

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**Design aspects of all atomic layer deposited TiO<sub>2</sub>-Fe<sub>2</sub>O<sub>3</sub> scaffold-absorber photoanodes for water splitting**

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

**Continuous removal and recovery of tellurium in an upflow anaerobic granular sludge bed reactor**

Mal, J., Nancharaiyah, Y. V., Maheshwari, N., van Hullebusch, E. D. & Lens, P. N. L., Apr 2017, In : *Journal of Hazardous Materials*. 327, p. 79-88 9 p.

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

**Conclusions: Does History Matter? Present Water Governance Challenges and Future Implications**

Juuti, P. S., Katko, T. S. & Vuorinen, H. S., 2007, 2007. *Environmental History of Water - Global views on community water supply and sanitation*. IWA Publishing. Juuti P.S., K. T. S. & Vuorinen, H. S. (eds.). p. 589-592

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

**Conclusions**

Juuti, P. S., Katko, T. S. & Vuorinen, H. S., 2007, 2007. *Environmental History of Water - Global views on community water supply and sanitation*. IWA Publishing. Juuti P.S., K. T. S. & Vuorinen, H. S. (eds.). p. 259-262

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

**Conclusions**

Juuti, P. S., Katko, T. S. & Vuorinen, H. S., 2007, 2007. *Environmental History of Water - Global views on community water supply and sanitation*. IWA Publishing. Juuti P.S., K. T. S. & Vuorinen, H. S. (eds.). p. 501-506

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

**Conclusions**

Juuti, P. S., Katko, T. S. & Vuorinen, H. S., 2007, 2007. *Environmental History of Water - Global views on community water supply and sanitation*. IWA Publishing. Juuti P.S., K. T. S. & Vuorinen, H. S. (eds.). p. 93-96

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

**Comparison the portable service platforms influence to electric field exposure at 110 kV substations**

Pääkkönen, R., Kuisti, H., Gonzalez, J. A., Tarao, H., Gobba, F. & Korpinen, L., 2012, *The Bioelectromagnetics Society 34th Annual Meeting, June 17, 2012 - June 22, 2012, Brisbane, Australia*. The Bioelectromagnetics Society, p. 215-217 (The Bioelectromagnetics Society Annual Meeting).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

**Comparison of the total mercury content in sediment samples with a mercury sensor bacteria test and *Vibrio fischeri* toxicity test**

Lappalainen, J. O., Karp, M. T., Juvonen, R., Virta, M. P. J. & Nurmi, J., Dec 2000, In : *Environmental Toxicology*. 15, 5, p. 443-448 6 p.

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

**Comparison of community managed projects and conventional approaches in rural water supply of Ethiopia**

Behailu, B. M., Suominen, A., Katko, T. S., Mattila, H. & Yayehyirad, G., 30 Sep 2016, In : *African Journal of Environmental Science and Technology*. 10, 9, p. 292-306 15 p., 04AF23059936.

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

**Comparison of air pressure difference, air change rates, and CO2 concentrations in apartment buildings before and after energy retrofits**

Leivo, V., Prasauskas, T., Turunen, M., Kiviste, M., Aaltonen, A., Martuzevicius, D. & Haverinen-Shaughnessy, U., 2017, In : *Building and Environment*. 120, p. 85-92 8 p.

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

### **Comparison between the Occupational ELF magnetic field exposure in Finland and in Italy**

Korpinen, L., Lahtinen, S. & Gobba, F., 2011, *10th International Conference European Bioelectromagnetics Association, 21-24 February 2011, Rome, Italy*. Rome: European Bioelectromagnetics Association, p. 2 p (International Conference European Bioelectromagnetics Association).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### **Comparing the energy required for fine grinding torrefied and fast heat treated pine**

Kokko, L., Tolvanen, H., Hämäläinen, K. & Raiko, R., 2012, In : *Biomass & Bioenergy*. 42, Jul, p. 219-223

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

### **Comparative analysis and discussion**

Juuti, P. S. & Katko, T. S., 2005, *Water, Time and European Cities. History matters for the Futures*. Juuti, P. S. & Katko, T. S. (eds.). Tampere: Tampere University Press, p. 219-240

Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

### **Commercialising reclaimed materials in earthworks – guidelines for productization and the process of appending these materials in the Finnish national code of practice**

Koivisto, K., Forsman, J., Ronkainen, M., Lahtinen, P., Kolisoja, P. & Kuula, P., 2016, *Proceedings of the 17th Nordic Geotechnical Meeting Reykjavik Iceland: Challenges in Nordic Geotechnic 25th - 28th of May*. Reykjavik: Icelandic Geotechnical Society, 10 p.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

### **Combining mineral fractions of recovered MSWI bottom ash: improvement for utilization in civil engineering structures**

Sormunen, L. A., Kalliainen, A., Kolisoja, P. & Rantsi, R., 22 Aug 2016, In : *Waste and Biomass Valorization*. 12 p.

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

### **Coal char combustion in O<sub>2</sub>/N<sub>2</sub> and O<sub>2</sub>/CO<sub>2</sub> conditions in a drop tube reactor: an optical study**

Rodriguez Avila, M., Honkanen, M., Raiko, R. & Oksanen, A., 2012, In : *Industrial Combustion*. p. 1-22 22 p., 201201.

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

### **CO<sub>2</sub> reduction costs and benefits in transport: socio-technical scenarios**

Liimatainen, H., Pöllänen, M. & Viri, R., 21 Dec 2018, In : *European Journal of Futures Research*. 2018, 6:22, 12 p.

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

### **Chasing measurements for real-world emissions of city buses**

Järvinen, A., Karjalainen, P., Bloss, M., Potila, O., Simonen, P., Kuuluvainen, H., Timonen, H., Saarikoski, S., Niemi, J. V., Keskinen, J. & Rönkkö, T., 2017.

Research output: Other conference contribution > Paper, poster or abstract > Scientific

### **Characterization of fine fraction mined from two Finnish landfills**

Mönkäre, T. J., Palmroth, M. R. T. & Rintala, J. A., 2016, In : *Waste Management*. 47A, p. 34-39 6 p.

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

### **Characterization of fine fraction from landfill mining for evaluating methane potential**

Mönkäre, T., Palmroth, M. & Rintala, J., 2014, *Fifth International Symposium on Energy from Biomass and Waste, Venice 2014 Proceedings, Island of San Servolo, Venice, Italy, 17-20 November 2014*. Italy: CISA Publisher

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

### **Characterization and biological stabilization of fine fraction from landfill mining**

Mönkäre, T., 23 Feb 2018, Tampere University of Technology. 68 p. (Tampere University of Technology. Publication; vol. 1522)

Research output: Book/Report > Doctoral thesis > Collection of Articles

**Characteristics and agronomic usability of digestates from laboratory digesters treating food waste and autoclaved food waste**

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

**Changing energy production structures and CO2 emissions in the ASEAN countries: Decomposition analysis of drivers behind the changes**

Vehmas, J., Luukkanen, J., Mustonen, S., Kaivo-oja, J., Snäkin, J-P. & Jusi, S., 2008, *International Conference on Energy Security and Climate Change: Issues, Strategies, and Options (ESCC 2008). 6-8 August 2008, Bangkok, Thailand.* p. 5 p

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific

**Challenges to Finnish water and wastewater services in the next 20-30 years**

Heino, O. A., Takala, A. J. & Katko, T. S., 2011, In : E-Water. p. 1-20 20 p., 2011/01.

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

**CFD-Modeling of Fume Formation in Kraft Recovery Boilers**

Leppänen, A., Välimäki, E., Oksanen, A. & Tran, H., 2012, *TAPPI PEERS Conference Proceedings 14.-18.10.2012, Savannah, USA.* TAPPI, (TAPPI PEERS Conference).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review