

**Exposure to indoor air pollution across socio-economic groups in high-income countries: A scoping review of the literature and a modelling methodology**

Ferguson, L., Taylor, J., Davies, M., Shrubsole, C., Symonds, P. & Dimitroulopoulou, C., Oct 2020, In : Environment International. 143, 105748.

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

**Ministry of the Environment announces a Guide on Renovation and Repair of Buildings with Moisture and Microbial Damage - From theory to practice**

Weijo, I., Turunen, T., Lahdensivu, J., Sistonen, E. & Annala, P., 30 Jun 2020, In : E3S Web of Conferences. 172, 6 p., 20007.

Research output: Contribution to journal > Conference article > Scientific > peer-review

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

Unban, K., Khanongnuch, R., Kanpiengjai, A., Shetty, K. & Khanongnuch, C., May 2020, In : Applied Biochemistry and Biotechnology.

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

**Spatial variations in bacterial and archaeal abundance and community composition in boreal forest pine mycorrhizospheres**

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

**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

**Adjoint-based optimization in the development of low-emission industrial boilers**

Kanellis, G., Oksanen, A. & Konttinen, J., 2020, In : Engineering Optimization. 21 p.

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

**Towards bioproduction of poly- $\alpha$ -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

**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

**The most difficult at-fault fatal crashes to avoid with current active safety technology**

Koisaari, T., Utriainen, R., Kari, T. & Tervo, T., 13 Dec 2019, In : Accident Analysis and Prevention. 135, 2020, 105396.

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

**Highly ductile amorphous oxide at room temperature and high strain rate**

Frankberg, E. J., Kalikka, J., Ferré, F. G., Joly-Pottuz, L., Salminen, T., Hintikka, J., Hokka, M., Koneti, S., Douillard, T., Le Saint, B., Kreiml, P., Cordill, M. J., Epicier, T., Stauffer, D., Vanazzi, M., Roiban, L., Akola, J., Fonzo, F. D., Levänen, E. & Masenelli-Varlot, K., 15 Nov 2019, In : Science. 366, 6467, p. 864-869 6 p.

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

**Increasing oxygen deficiency changes rare and moderately abundant bacterial communities in coastal soft sediments**  
Sinkko, H., Hepolehto, I., Lyra, C., Rinta-Kanto, J. M., Villnäs, A., Norkko, A. & Timonen, S., 8 Nov 2019, In : Scientific Reports. 9, 16341.

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

**Municipal challenges in managing a building with noted health symptoms**

Uotila, U., Saari, A. & Junnonen, J-M., Nov 2019, In : Facilities. 13 p.

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

**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.

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

**Transient-state operation of an anoxic biotrickling filter for H<sub>2</sub>S removal**

Khanongnuch, R., Di Capua, F., Lakaniemi, A-M., Rene, E. R. & Lens, P., 5 Sep 2019, In : Journal of Hazardous Materials. 377, p. 42-51 10 p.

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

**The potential of biomethane in replacing fossil fuels in heavy transport-a case study on Finland**

Pääkkönen, A., Aro, K., Aalto, P., Konttinen, J. & Kojo, M., 1 Sep 2019, In : Sustainability. 11, 17, 4750.

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

**Cracking of the End Diaphragm of a Post-tensioned Beam Bridge**

Kuusela, M., Asp, O. & Laaksonen, A., 28 Aug 2019, In : Nordic Concrete Research. 60, 1, p. 89-104 15 p., 6.

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**Denitrifying microbial communities along a boreal stream with varying land-use**

Aalto, S. L., Saarenheimo, J., Arvola, L., Tiirola, M., Huotari, J. & Rissanen, A. J., 24 Jul 2019, In : Aquatic Sciences. 81, 59

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

**Co-production of 1,3 propanediol and long-chain alkyl esters from crude glycerol**

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

**Engineering and kinetic aspects of bacterial uranium reduction for the remediation of uranium contaminated environments**

Lakaniemi, A-M., Douglas, G. B. & Kaksonen, A. H., 5 Jun 2019, In : Journal of Hazardous Materials. 371, p. 198 - 212

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

**Revisiting the feasibility of biomass-fueled CHP in future energy systems – Case study of the Åland Islands**

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

**Long-term performance evaluation of an anoxic sulfur oxidizing moving bed biofilm reactor under nitrate limited conditions**

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

**Genesis of Water supply and sanitation services in Finland**

Translated title of the contribution: : Vesihuoltopalveluiden synty Suomessa: Editorial

Rajala, R. P., Juuti, P. S. & Katko, T. S., Apr 2019, In : Ympäristöhistoria: Finnish Journal of Environmental History. 8, 1, p. 18-28 11 p.

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**Impacts of short-term temperature fluctuations on biohydrogen production and resilience of thermophilic microbial communities**

Okonkwo, O., Escudié, R., Bernet, N., Mangayil, R., Lakaniemi, A-M. & Trably, E., 29 Mar 2019, In : International Journal of Hydrogen Energy. 44, 16, p. 8028-8037

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

**Scaling up the treatment of the fine fraction from landfill mining: Mass balance and cost structure**

Mönkäre, T., Palmroth, M. R. T., Sormunen, K. & Rintala, J., 15 Mar 2019, In : Waste Management. 87, p. 464-471 8 p.

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

**Fluidized bed bioreactor for multiple environmental engineering solutions**

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

**Particulate Mass and Nonvolatile Particle Number Emissions from Marine Engines Using Low-Sulfur Fuels, Natural Gas, or Scrubbers**

Lehtoranta, K., Aakko-Saksa, P., Murtonen, T., Vesala, H., Ntziachristos, L., Rönkkö, T., Karjalainen, P., Kuitinen, N. & Timonen, H., 19 Feb 2019, In : Environmental Science and Technology. 53, 6, p. 3315-3322 8 p.

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**The potential of electric trucks – An international commodity-level analysis**

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**Highly compact TiO<sub>2</sub> films by spray pyrolysis and application in perovskite solar cells**

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**Microstructure-property relationships of novel ultra-high strength press hardening steels**

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**Towards the EU emissions targets of 2050: optimal energy renovation measures of Finnish apartment buildings**

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**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.

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**Acetotrophic Activity Facilitates Methanogenesis from LCFA at Low Temperatures: Screening from Mesophilic Inocula**

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**Water Supply and Sanitation in a Green Economy Society: The Case of Finland**

Laitinen, J., Antikainen, R., Hukka, J. J. & Katko, T. S., 2019, In : Public Works Management and Policy.

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### **A decade of Finnish engineering education for sustainable development**

Takala, A. & Korhonen-Yrjänheikki, K., 2019, In : INTERNATIONAL JOURNAL OF SUSTAINABILITY IN HIGHER EDUCATION. 20, 1, p. 170-186

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### **Microalgae grow on source separated human urine in Nordic climate: Outdoor pilot-scale cultivation**

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

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

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### **Halogen-Bond-Assisted Photoluminescence Modulation in Carbazole-Based Emitter**

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### **Possible Impact of Long and Heavy Vehicles in the United Kingdom—A Commodity Level Approach**

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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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### **Radon, fungal spores and MVOCs reduction in crawl space house: A case study and crawl space development by hygrothermal modelling**

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**Economic analysis of hydrogen production by methane thermal decomposition: Comparison to competing technologies**  
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Research output: Contribution to journal › Article › Scientific › peer-review

**UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol**  
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**Mechanical properties of recovered municipal solid waste incineration bottom ash: the influence of aging and changes in moisture content**  
Sormunen, L. A. & Kolisoja, P., 2018, In : Road Materials and Pavement Design . 19, 2, p. 252-270  
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**Recycling potential of post-consumer plastic packaging waste in Finland**  
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Research output: Contribution to journal › Article › Scientific › peer-review

**Valorization of Finnish mining tailings for use in the ceramics industry**  
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**Suomen vesihuollon kehitys kansainvälisessä kontekstissa**  
Translated title of the contribution: : Development of Finnish water services in international perspective  
Katko, T. . S. & Juuti, P., 2018, In : Tekniikan Waiheita: Teknik I Tiden. 36, 2, p. 5-24 20 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Evaluation of methods for enhancing methane oxidation via increased soil air capacity and nutrient content in simulated landfill soil cover**  
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**Landowners' willingness to promote bioenergy production on wasteland – future impact on land use of cutaway peatlands**  
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**Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties**  
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**Continuous removal and recovery of tellurium in an upflow anaerobic granular sludge bed reactor**

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**The effect of anode potential on bioelectrochemical and electrochemical tetrathionate degradation**

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**Service Failures of Rural Water Supply Systems in Ethiopia and Their Policy Implications**

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

**Influence of TiO<sub>2</sub> compact layer precursor on the performance of perovskite solar cells**

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**Screening biological methods for laboratory scale stabilization of fine fraction from landfill mining**

Mönkäre, T. J., Palmroth, M. R. T. & Rintala, J. A., 2017, In : Waste Management. 60, p. 739-747 9 p.

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Research output: Contribution to journal › Comment/debate › Scientific › peer-review

**Long term stability of air processed inkjet infiltrated carbon-based printed perovskite solar cells under intense ultra-violet light soaking**

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

**Replacing centralised waste and sanitation infrastructure with local treatment and nutrient recycling: Expert opinions in the context of urban planning**

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

**Comparison of air pressure difference, air change rates, and CO<sub>2</sub> concentrations in apartment buildings before and after energy retrofits**

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**Indigenous practices of water management for sustainable services: Case of Borana and Konso, Ethiopia**

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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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**Elimination of arsenic-containing emissions from gasification of chromated copper arsenate wood**

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**Methylophaga and Hyphomicrobium can be used as target genera in monitoring saline water methanol-utilizing denitrification**

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

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**Sustainable nutrients recovery and recycling by optimizing the chemical addition sequence for struvite precipitation from raw swine slurries**

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

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**Glazed spaces: A simplified calculation method for the evaluation of energy savings and interior temperatures**

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**Hydrothermal carbonization of pulp mill streams**

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**Effect of particle size and dispersion status on cytotoxicity and genotoxicity of zinc oxide in human bronchial epithelial cells**

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

**Effect of heavy metal co-contaminants on selenite bioreduction by anaerobic granular sludge**

Mal, J., Nancharaiyah, Y. V., van Hullebusch, E. D. & Lens, P. N. L., 1 Apr 2016, In : *Bioresource Technology*. 206, p. 1-8 8 p.

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

**Planning land use for biogas energy crop production: The potential of cutaway peat production lands**

Laasasenaho, K., Lensu, A. & Rintala, J., 1 Feb 2016, In : Biomass & Bioenergy. 85, p. 355-362 8 p.

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

**Plasma-Assisted Fabrication of Fe<sub>2</sub>O<sub>3</sub> - Co<sub>3</sub>O<sub>4</sub> Nanomaterials as Anodes for Photoelectrochemical Water Splitting**

Carraro, G., Maccato, C., Gasparotto, A., Kaunisto, K., Sada, C. & Barreca, D., 1 Jan 2016, In : Plasma Processes and Polymers. 13, 1, p. 191-200 10 p.

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

**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

**Accelerated deactivation studies of the natural-gas oxidation catalyst-Verifying the role of sulfur and elevated temperature in catalyst aging**

Honkanen, M., Kärkkäinen, M., Kolli, T., Heikkinen, O., Viitanen, V., Zeng, L., Jiang, H., Kallinen, K., Huuhtanen, M., Keiski, R. L., Lahtinen, J., Olsson, E. & Vippola, M., 2016, In : Applied Catalysis B-Environmental. p. 439-448 10 p.

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

**Revisiting cellulase production and redefining current strategies based on major challenges Article reference: RSER5103**

Kuhad, R. C., Deswal, D., Sharma, S., Bhattacharya, A., Kumar Jain, K., Kaur, A., Pletschke, B. I., Singh, A. & Karp, M., 2016, In : Renewable and Sustainable Energy Reviews. 55, p. 249-272 24 p.

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

**Use of diluted urine for cultivation of *Chlorella vulgaris***

Jaatinen, S., Lakaniemi, A-M. & Rintala, J., 2016, In : Environmental Technology. 37, 9, p. 1159-1170 12 p.

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

**High rate autotrophic denitrification in fluidized-bed biofilm reactors**

Zou, G., Papiro, S., Lakaniemi, A-M., Ahoranta, S. H. & Puhakka, J. A., 2016, In : Chemical Engineering Journal. 284, p. 1287-1294

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

**A study on raw, torrefied, and steam-exploded wood: Fine grinding, drop-tube reactor combustion tests in N<sub>2</sub>/O<sub>2</sub> and CO<sub>2</sub>/O<sub>2</sub> atmospheres, particle geometry analysis, and numerical kinetics modeling**

Toivanen, H., Keipi, T. & Raiko, R., 2016, In : Fuel. 176, p. 153-164

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

**Modelling of plastic culvert and road embankment interaction in 3D**

Kolisoja, P. & Kalliainen, A., 2016, In : Procedia Engineering. 143, p. 427-434 8 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.

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**Simultaneous nutrient removal and lipid production with *Chlorella vulgaris* on sterilized and non-sterilized anaerobically pretreated piggy wastewater**

Marjakangas, J. M., Chen, C. Y., Lakaniemi, A. M., Puhakka, J. A., Whang, L. M. & Chang, J. S., 5 Nov 2015, In :

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#### **Airtightness of residential buildings in Finland**

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

#### **Arsenic in bedrock, soil and groundwater - The first arsenic guidelines for aggregate production established in Finland**

Parviainen, A., Loukola-Ruskeeniemi, K., Tarvainen, T., Hatakka, T., Härmä, P., Backman, B., Ketola, T., Kuula, P., Lehtinen, H., Sorvari, J., Pyy, O., Ruskeeniemi, T. & Luoma, S., 1 Nov 2015, In : Earth-Science Reviews. 150, p. 709-723 15 p.

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

#### **Power generation in fed-batch and continuous up-flow microbial fuel cell from synthetic wastewater**

Lay, C-H., Kokko, M. E. & Puhakka, J. A., 1 Nov 2015, In : Energy. 91, p. 235-241 7 p.

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

#### **Evolution of Community-Managed Water Supply Projects From 1994 to the 2010s in Ethiopia**

Behailu, B. M., Suominen, A. & Katko, T. S., 22 Oct 2015, In : Public Works Management and Policy. 20, 4, p. 379-400 22 p.

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

#### **Viewpoint - Paradigm Shift of Water Services in Finland: From Production Mentality to Service Mindset**

Heino, O. & Takala, A., Oct 2015, In : Water Alternatives. 8, 3, p. 433-446 14 p.

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

#### **The Effect of Phosphorus Exposure on Diesel Oxidation Catalysts-Part II: Characterization of Structural Changes by Transmission Electron Microscopy**

Honkanen, M., Kärkkäinen, M., Heikkinen, O., Kallinen, K., Kolli, T., Huuhtanen, M., Lahtinen, J., Keiski, R. L., Lepistö, T. & Vippola, M., Oct 2015, In : Topics in Catalysis. 58, 14, p. 971-976 6 p.

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#### **The Effect of Phosphorus Exposure on Diesel Oxidation Catalysts-Part I: Activity Measurements, Elementary and Surface Analyses**

Kärkkäinen, M., Kolli, T., Honkanen, M., Heikkinen, O., Huuhtanen, M., Kallinen, K., Lepistö, T., Lahtinen, J., Vippola, M. & Keiski, R. L., Oct 2015, In : Topics in Catalysis. 58, 14, p. 961-970 10 p.

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

#### **Selecting an indigenous microalgal strain for lipid production in anaerobically treated piggery wastewater**

Marjakangas, J. M., Chen, C-Y., Lakaniemi, A-M., Puhakka, J. A., Whang, L-M. & Chang, J-S., Sep 2015, In : Bioresource Technology. 191, p. 369-376 8 p.

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

#### **Electricity production by a microbial fuel cell fueled by brewery wastewater and the factors in its membrane deterioration**

Çetinkaya, A. Y., Köroğlu, E. O., Demir, N. M., Baysoy, D. Y., Özkaya, B. & Çakmakçı, M., 20 Jul 2015, In : Chinese Journal of Catalysis. 36, 7, p. 1068-1076 9 p.

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

Ruoko, T. P., Kaunisto, K., Bärtsch, M., Pohjola, J., Hiltunen, A., Niederberger, M., Tkachenko, N. V. & Lemmetyinen, H., 8 Jul 2015, In : Journal of Physical Chemistry Letters. 6, 15, p. 2859-2864 6 p.

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#### **Catalytic effect of Ca and K on CO<sub>2</sub> gasification of spruce wood char**

Perander, M., DeMartini, N., Brink, A., Kramb, J., Karlström, O., Hemming, J., Moilanen, A., Konttinen, J. & Hupa, M., 15 Jun 2015, In : Fuel. 150, p. 464-472 9 p.

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

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

Tampio, E., Ervasti, S. & Rintala, J., 1 May 2015, In : Journal of Cleaner Production. 94, p. 86-92 7 p.

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

**Short Global History of Fountains**

Juuti, P. S., Antoniou, G. P., Dragoni, W., El-Gohary, F., De Feo, G., Katko, T. S., Rajala, R. P., Zheng, X. Y., Drusiani, R. & Angelakis, A. N., May 2015, In : Water. 7, 5, p. 2314-2348 35 p.

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

**Fermentative metabolism of an anaerobic, thermophilic consortium on plant polymers and commercial paper samples**

Carver, S. M., Nelson, M. C., Yu, Z. & Tuovinen, O. H., 1 Apr 2015, In : Biomass & Bioenergy. 75, p. 11-22 12 p.

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

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

Mangayil, R., Aho, T., Karp, M. & Santala, V., 1 Mar 2015, In : Renewable Energy. 75, p. 583-589 7 p.

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**Fluidized-bed denitrification of mining water tolerates high nickel concentrations**

Zou, G., Papirio, S., van Hullebusch, E. D. & Puhakka, J. A., 1 Mar 2015, In : Bioresource Technology. 179, p. 284-290 7 p.

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**Appropriate pricing policy needed worldwide for improving water services infrastructure**

Hukka, J. J. & Katko, T. S., 1 Jan 2015, In : Journal American Water Works Association. 107, 1, p. E37-E46

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

**Tighter contracts or more trust? Outsourcing in Finnish water utilities**

Heino, O., Katko, T. S. & Pietilä, P. E., 2015, In : Public Works Management and Policy. 20, 4, p. 360-378 19 p.

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

**Electricity generation from tetrathionate in microbial fuel cells by acidophiles**

Sulonen, M. L. K., Kokko, M. E., Lakaniemi, A-M. & Puhakka, J. A., 2015, In : Journal of Hazardous Materials. 284, p. 182-189 8 p.

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

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

Heino, O. & Takala, A., 2015, In : Water Alternatives. 8, 1, p. 844-858 15 p.

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

**Struvite precipitation in raw and co-digested swine slurries for nutrients recovery in batch reactors**

Taddeo, R. & Lepistö, R., 2015, In : Water Science and Technology. 71, 6, p. 892-897 6 p.

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

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

Warwick, M. E. A., Kaunisto, K., Barreca, D., Carraro, G., Gasparotto, A., Maccato, C., Bontempi, E., Sada, C., Ruoko, T.-P., Turner, S. & Van Tendeloo, G., 2015, In : ACS Applied Materials and Interfaces. 7, 16, p. 8667-8676 10 p.

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

**Pt-functionalized Fe<sub>2</sub>O<sub>3</sub> photoanodes for solar water splitting: the role of hematite nano-organization and the platinum redox state**

Warwick, M. E. A., Barreca, D., Bontempi, E., Carraro, G., Gasparotto, A., Maccato, C., Kaunisto, K., Ruoko, T. -P., Lemmetyinen, H., Sada, C., Goenuellue, Y. & Mathur, S., 2015, In : Physical Chemistry Chemical Physics. 17, 19, p. 12899-12907 9 p.

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

**Stabilization of fine fraction from landfill mining in anaerobic and aerobic laboratory leach bed reactors**

Mönkäre, T. J., Palmroth, M. R. T. & Rintala, J. A., 2015, In : Waste Management. 45, p. 468-475 8 p.

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

**Methane oxidation potential of boreal landfill cover materials: The governing factors and enhancement by nutrient manipulation**

Maanoja, S. T. & Rintala, J. A., 2015, In : Waste Management. 46, p. 399-407 9 p.

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

**To fractionate municipal solid waste incineration bottom ash: Key for utilisation?**

Sormunen, L. A. & Rantsi, R., 2015, In : Waste Management and Research.

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

**Utility–Customer Communication: The Case of Water Utilities**

Heino, O. & Anttiroiko, A-V., 2015, In : Public Works Management and Policy. 21, 3, p. 220-230

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

**Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation**

Barreca, D., Carraro, G., Gasparotto, A., Maccato, C., Warwick, M. E. A., Kaunisto, K., Sada, C., Turner, S., Gönüllü, Y., Ruoko, T-P., Borgese, L., Bontempi, E., Van Tendeloo, G., Lemmetyinen, H. & Mathur, S., 2015, In : Advanced Materials Interfaces. 2, 17

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

**Acid Leaching of Cu and Zn from a Smelter Slag with a Bacterial Consortium**

Tuovinen, O. H., Särkijärvi, S., Peuraniemi, E., Junnikkala, S., Puhakka, J. A. & Kaksonen, A. H., 2015, In : Advanced Materials Research. 1130, p. 660-663 4 p.

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

**Groundwater as a source of conflict and cooperation: Towards creating mutual gains in a finnish water supply project**

Kurki, V. & Katko, T. S., 2015, In : Water Alternatives. 8, 3, p. 337-351 15 p.

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

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

Heino, O., 2015, In : Tiedepolitiikka. 40, 3, p. 39-46 8 p.

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

**Resilient Asset Management and Governance Fordeteriorating Water Services Infrastructure**

Hukka, J. J. & Katko, T. S., 2015, In : Procedia Economics and Finance. 21, p. 112-119 8 p.

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

**Kohti tasapuolisempaa tutkimuksen arviointia: Pääkirjoitus**

Translated title of the contribution: : Towards better balanced research assessment: Editorial

Katko, T. S., 2015, In : Ympäristöhistoria: Finnish Journal of Environmental History. 5, 1, p. 4-5 2 p.

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

**Importance and challenges of sharing experiences among an international and interdisciplinary group of doctoral students**

Kurki, V., Sidaraviciute, R., Sörensen, J., Kibocha, S. N., Retike, I., Ikobe, G., Tichonovas, M., Elijosiute, E. & Rajala, R., 2015, In : Ympäristöhistoria: Finnish Journal of Environmental History. 1/2015, p. 45-51 7 p.

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

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

Leppänen, A., Tran, H., Taipale, R., Välimäki, E. & Oksanen, A., 1 Aug 2014, In : Fuel. 129, p. 45-53 9 p.

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

**Bioprocessing of enhanced cellulase production from a mutant of *Trichoderma asperellum* RCK2011 and its application in hydrolysis of cellulose**

Raghuwanshi, S., Deswal, D., Karp, M. & Kuhad, R. C., 15 May 2014, In : *Fuel*. 124, p. 183-189 7 p.

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

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

Ciranna, A., Ferrari, R., Santala, V. & Karp, M., 15 Apr 2014, In : *International Journal of Hydrogen Energy*. 39, 12, p. 6391-6401 11 p.

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**Assessment of metabolic flux distribution in the thermophilic hydrogen producer *Caloramator celer* as affected by external pH and hydrogen partial pressure**

Ciranna, A., Pawar, S. S., Santala, V., Karp, M. & van Niel, E. W. J., 28 Mar 2014, In : *Microbial Cell Factories*. 13, 1, 48.

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

**Rewiring the wax ester production pathway of *Acinetobacter baylyi* ADP1**

Santala, S., Efimova, E., Koskinen, P., Karp, M. T. & Santala, V., 21 Mar 2014, In : *ACS Synthetic Biology*. 3, 3, p. 145-151 7 p.

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

**An experimental study and numerical modeling of combusting two coal chars in a drop-tube reactor: A comparison between N<sub>2</sub>/O<sub>2</sub>, CO<sub>2</sub>/O<sub>2</sub>, and N<sub>2</sub>/CO<sub>2</sub>/O<sub>2</sub> atmospheres**

Tolvanen, H. & Raiko, R., 2014, In : *Fuel*. 124, p. 190-201 12 p.

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

**Metabolic engineering of *Acinetobacter baylyi* ADP1 for improved growth on gluconate and glucose**

Kannisto, M., Aho, T., Karp, M. & Santala, V., 2014, In : *Applied and Environmental Microbiology*. 80, 22, p. 7021-7027 7 p.

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

**Influence of temperature and pretreatments on the anaerobic digestion of wastewater grown microalgae in a laboratory-scale accumulating-volume reactor**

Kinnunen, V., Craggs, R. & Rintala, J., 2014, In : *Water Research*. 57, p. 247-257 11 p.

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

**The effect of torrefaction on the chlorine content and heating value of eight woody biomass samples**

Keipi, T., Tolvanen, H., Kokko, L. & Raiko, R., 2014, In : *Biomass & Bioenergy*. 66, p. 232-239 8 p.

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

**Lähteet Suomen vesihuollossa**

Translated title of the contribution: : Lähteet Suomen vesihuollossa

Katko, T. & Juuti, P. S., 2014, In : *Vesitalous*. 4, p. 15-18 4 p.

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

**Simultaneous detection of three antiviral and four antibiotic compounds in source-separated urine with liquid chromatography**

Pynnönen, S. T. & Tuhkanen, T. A., 2014, In : *Journal of Separation Science*. 37, 3, p. 219-227 9 p.

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

**Inverse infrastructures: self-organization in the water services**

Heino, O. & Anttiroiko, A-V., 2014, In : *Water Policy*. p. 299-315 17 p.

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

#### **Anaerobic digestion of autoclaved and untreated food waste**

Tampio, E., Ervasti, S., Paavola, T., Heaven, S., Banks, C. & Rintala, J., 2014, In : Waste Management. 34, 2, p. 370-377 8 p.

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

#### **E-sail test payload of the ESTCube-1 nanosatellite**

Envall, J., Janhunen, P., Toivanen, P., Pajusalu, M., Ilbis, E., Kalde, J., Averin, M., Kuuste, H., Laizans, K., Allik, V., Rauhala, T., Seppänen, H., Kiprich, S., Ukkonen, J., Haeggström, E., Kalvas, T., Tarvainen, O., Kauppinen, J., Nuottajärvi, A. & Koivisto, H., 2014, In : Proceedings of the Estonian Academy of Sciences. 63, 2S, p. 210-221 12 p.

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

#### **Dynamics of microbial communities in untreated and autoclaved food waste anaerobic digesters**

Blasco, L., Kahala, M., Tampio, E., Ervasti, S., Paavola, T., Rintala, J. & Joutsjoki, V., 2014, In : Anaerobe. 29, p. 3-9 7 p.

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#### **Bacterial diversity and active biomass in full-scale granular activated carbon filters operated at low water temperatures**

Kaarela, O. E., Härkki, H. A., Palmroth, M. R. T. & Tuhkanen, T. A., 2014, In : Environmental Technology. p. 681-692 12 p.

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

#### **Long-term thermophilic mono-digestion of rendering wastes and co-digestion with potato pulp**

Bayr, S., Ojanperä, M., Kaparaju, P. & Rintala, J., 2014, In : Waste Management. 34, 10, p. 1853-1859 7 p.

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

#### **Modelling fume deposit growth in recovery boilers: effect of flue gas and deposit temperature**

Leppänen, A., Tran, H., Välimäki, E. & Oksanen, A., 2014, In : Journal of Science and Technology for Forest Products and Processes. 4, 1, p. 50-57 8 p.

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

#### **Kohti hajautettua infrastruktuuripoliittikkaa? Paikalliset vesiosuuskunnat perusrakenteiden tuottajina**

Translated title of the contribution: : Towards integrative infrastructure policy? Local water cooperatives as infrastructure producers.

Heino, O. & Anttiroiko, A-V., 2014, In : Maaseudun uusi aika. 22, 3, p. 38-50 13 p.

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

#### **Bioenergy consumption and biogas potential in Cambodian households**

Mustonen, S., Raiko, R. & Luukkanen, J., 2013, In : Sustainability. 5, 5, p. 1875-1892 17 p.

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#### **Impact of heavy metals on denitrification of simulated mining wastewaters**

Zou, G., Ylinen, A., Di Capua, F., Papirio, S., Lakaniemi, A-M. & Puhakka, J., 2013, In : Advanced Materials Research. 825, p. 500-503 4 p.

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#### **A national collaboration process: Finnish engineering education for the benefit of people and environment**

Takala, A. & Korhonen-Yrjänheikki, K., 2013, In : Science and Engineering Ethics. 19, 4, p. 1557-1569

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

#### **Fast pyrolysis of coal, peat, and torrefied wood: Mass loss study with a drop-tube reactor, particle geometry analysis, and kinetics modeling**

Tolvanen, H., Kokko, L. & Raiko, R., 2013, In : Fuel. 111, September, p. 148-156

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., 2013, In : TAPPI Journal. 12, 3, p. 25-32 8 p.

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### **Pollutants source control and health effects**

Kelishadi, R., Amin, M. M., Haghdoost, A. A., Gupta, A. K. & Tuhkanen, T. A., 2013, In : Journal of Environmental and Public Health. 2013, p. 1-2 2 p., 209739.

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

### **Halpaa eli hyvää - minkälaisia merkityksiä vesihuoltoala rakentaa itsestään**

Translated title of the contribution: : Halpaa eli hyvää - minkälaisia merkityksiä vesihuoltoala rakentaa itsestään

Heino, O. & Takala, A., 2013, In : Kunnallistieteellinen Aikakauskirja. 41, 3, p. 226-245

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

### **Käänteiset infrastruktuurit ja integroiva infrastruktuuripolitiikka**

Translated title of the contribution: : Käänteiset infrastruktuurit ja integroiva infrastruktuuripolitiikka

Anttiroiko, A-V. & Heino, O., 2013, In : Yhdyskuntasuunnittelu. 51, 3, p. 30-43 14 p.

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

### **Managed aquifer recharge in community water supply: the Finnish experience and some international comparisons**

Kurki, V., Lipponen, A. & Katko, T., 2013, In : Water International. 38, 6, p. 774-789 16 p.

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

### **Testing activity-based costing to large-scale combined heat and power plant using bioenergy**

Korpinen, H. & Raiko, R., 2013, In : International Journal of Energy Research. p. 1-11 11 p.

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

### **Bacterial community transcription patterns during a marine phytoplankton bloom**

Rinta-Kanto, J. M., Sun, S., Sharma, S., Kiene, R. P. & Moran, M. A., Jan 2012, In : Environmental Microbiology. 14, 1, p. 228-239 12 p.

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

### **Cardiac Pacemakers in Electric and Magnetic Fields of 400-kV Power Lines**

Translated title of the contribution: : Cardiac Pacemakers in Electric and Magnetic Fields of 400-kV Power Lines

Korpinen, L., Kuisti, H., Elovaara, J. & Virtanen, V., 2012, In : PACE: Pacing and Clinical Electrophysiology. 35, 4, p. 422-430

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

### **Occupational Exposure to Electric Fields and Currents Associated With 110 kv Substation Tasks**

Korpinen, L., Kuisti, H. A., Tarao, H. & Elovaara, J. A., 2012, In : Bioelectromagnetics. 33, 5, p. 438-442

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

### **Water - The Most Important Subject of the World**

Heino, O., Takala, A. & Vihanta, J., 2012, In : Ympäristöhistoria: Finnish Journal of Environmental History. 1, p. 44-58 15 p.

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

### **Production of Electricity and Butanol from Microalgal Biomass in Microbial Fuel Cells**

Lakaniemi, A-M., Tuovinen, O. H. & Puhakka, J. A., 2012, In : BioEnergy Research. 5, 2, p. 481-491

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

### **Impacts of changing operational parameters of in situ chemical oxidation (ISCO) on removal of aged PAHs from soil**

Cajal-Marinoso, P., de la Calle, R., Rivas, F. J. & Tuhkanen, T., 2012, In : Journal of Advanced Oxidation Technologies. 15, 2, p. 429-436

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

**Insentiivit julkisen sektorin innovaatiotoiminnan edistämisen välineinä. Esimerkinä Georgian osavaltion palvelu-uudistus**

Translated title of the contribution: : Insentiivit julkisen sektorin innovaatiotoiminnan edistämisen välineinä. Esimerkinä Georgian osavaltion palvelu-uudistus

Anttiroiko, A-V. & Heino, O., 2012, In : Työelämän tutkimus. 10, 3, p. 298-305 8 p.

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

**Modeling fine particles and alkali metal compound behavior in a kraft recovery boiler**

Leppänen, A., Välimäki, E. & Oksanen, A., 2012, In : TAPPI Journal. 11, 7, p. 9-14 6 p.

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

**Accidents and close call situations connected to the use of mobile phones**

Korpinen, L. & Pääkkönen, R., 2012, In : Accident Analysis and Prevention. 45, p. 75-82

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

**White-Collar Workers' Self-Reported Physical Symptoms Associated With Using Computers**

Korpinen, L., Pääkkönen, R. & Gobba, F., 2012, In : International Journal of Occupational Safety and Ergonomics. 18, 2, p. 137-147

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

**Effects of tissue conductivity and electrode area on internal electric fields in a numerical human model for ELF contact current exposures**

Tarao, H., Kuisti, H., Korpinen, L., Hayashi, N. & Isaka, K., 2012, In : Physics in Medicine and Biology. 57, 10

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

**Treatment of Composted Soils contaminated with Petroleum Hydrocarbons using Chemical Oxidation followed by Enhanced Aerobic Bioremediation**

Cajal-Marinoso, P., Reich, O., Mobes, A. & Tuhkanen, T., 2012, In : Journal of Advanced Oxidation Technologies. 15, 1, p. 217-223

Research output: Contribution to journal › Article › 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

**The evolving role of water co-operatives in Finland**

Takala, A. J., Arvonen, V., Katko, T. S., Pietilä, P. E. & Åkerman, M. W., 2011, In : International Journal of Co-Operative Management. 5, 2, p. 11-19

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**

Korpinen, L., Kuisti, H., Pääkkönen, R., Vanhala, P. & Elovaara, J., 2011, In : Annals of Occupational Hygiene. 55, 5, p. 526-536

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

**Luminescent bacteria-based sensing method for methylmercury specific determination**

Rantala, A., Utriainen, M., Kaushik, N., Virta, M., Välimaa, A-L. & Karp, M., 2011, In : Analytical and Bioanalytical Chemistry. 400, 4, p. 1041-1049

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

**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

**Working-aged population's mental symptoms and the use of the Internet**

Korpinen, L. & Pääkkönen, R., 2011, In : *Mental Illness*. 3, 1, p. 25-28  
Research output: Contribution to journal › Article › Scientific › peer-review

**Hyvän veden ja hyvien yhteyksien kaupunki - Riihimäen Veden historia**

Translated title of the contribution: : Hyvän veden ja hyvien yhteyksien kaupunki - Riihimäen Veden historia  
Juuti, P., Rajala, R., Pietilä, P. & Katko, T., 2011, In : *Vesitalous*. 52, 5, p. 36-40  
Research output: Contribution to journal › Article › Scientific › peer-review

**Adjustable wettability of paperboard by liquid flame spray nanoparticle deposition**

Stepien, M., Saarinen, J. J., Teisala, H., Tuominen, M., Aromaa, M., Kuusipalo, J., Mäkelä, J. M. & Toivakka, M., 2011, In : *Applied Surface Science*. 257, 6, p. 1911-1917  
Research output: Contribution to journal › Article › Scientific › peer-review

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

Korpinen, L., Elovaara, J. A. & Kuisti, H. A., 2011, In : *Bioelectromagnetics*. p. 79-83  
Research output: Contribution to journal › Article › Scientific › peer-review

**Managing water supply through joint regional municipal authorities in Finland: Two comparative cases**

Stenroos, M. & Katko, T. S., 2011, In : *Water*. 3, 2, p. 667-681  
Research output: Contribution to journal › Article › Scientific › peer-review

**Biogenic hydrogen and methane production from reed canary grass**

Lakaniemi, A-M., Koskinen, P. E. P., Nevatalo, L. M., Kaksonen, A. H. & Puhakka, J. A., 2011, In : *Biomass & Bioenergy*. 35, 2, p. 773-780  
Research output: Contribution to journal › Article › Scientific › peer-review

**Physical symptoms in young adults and their use of different computers and mobile phones**

Korpinen, L. & Pääkkönen, R., 2011, In : *International Journal of Occupational Safety and Ergonomics*. 17, 4, p. 361-371  
Research output: Contribution to journal › Article › Scientific › peer-review

**Biogenic hydrogen and methane production from *Chlorella vulgaris* and *Dunaliella tertiolecta* biomass**

Lakaniemi, A-M., Hulatt, C. J., Thomas, D. N., Tuovinen, O. H. & Puhakka, J. A., 2011, In : *Biotechnology for Biofuels*. 4, 1, p. 1-12 12 p., 34.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Development of superhydrophobic coating on paperboard surface using the Liquid Flame Spray**

Teisala, H., Tuominen, M., Aromaa, M., Mäkelä, J. M., Stepien, M., Saarinen, J. J., Toivakka, M. & Kuusipalo, J., 2010, In : *Surface and Coatings Technology*. 205, 2, p. 436-445  
Research output: Contribution to journal › Article › Scientific › peer-review

**Self-reported use of ICT (Information and communication technology) uptake in 2002 and discomfort amongst Finns aged 45-66**

Korpinen, L. & Pääkkönen, R., 2010, In : *Applied Ergonomics*. 42, p. 85-90  
Research output: Contribution to journal › Article › Scientific › peer-review

**Integration of water and wastewater utilities**

Katko, T. S., Kurki, V. O., Juuti, P. S., Rajala, R. P. & Seppälä, O. T., 2010, In : *Journal American Water Works Association*. 102, 9, p. 62-70  
Research output: Contribution to journal › Article › Scientific › peer-review

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

Szabo, H. & Tuhkanen, T., 2010, In : *Chemosphere*. 80, 7, p. 779-786  
Research output: Contribution to journal › Article › Scientific › peer-review



### **A comparison of the usability of a laptop, communicator, and handheld computer**

Suomalainen, P., Korpinen, L. & Pääkkönen, R., 2010, In : Journal of Usability Studies. 5, 3, p. 111-123 13 p.

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**

Korpinen, L. & Pääkkönen, R., 2010, In : Bioelectromagnetics. 31, 3, p. 252-254

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

### **Water and the city**

Katko, T. S., Juuti, P. S. & Tempelhoff, J., 2010, In : Environment and History. 16, 2, p. 213-234

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

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

Lakaniemi, A-M., Nevatalo, L. M., Kaksonen, A. H. & Puhakka, J. A., 2010, In : Bioresource Technology. 101, 11, p. 3931-3939

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

### **Towards balanced public-private co-operation in urban water management**

Hukka, J. J., Katko, T. S., Pietilä, P. E. & Seppälä, O. T., 2010, In : Journal of Management & Public Policy. 2, 1, p. 71-81

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

### **Co-operation between technical education of university and electro-technical standardization association**

Hieta-Wilkman, S., Vesa, J. & Korpinen, L., 2010, In : Elektronika ir Elektrotechnika. 10, 106, p. 165-168

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

### **Sanitation, water and health**

Rautanen, S-L., Luonsi, A., Nygård, H., Vuorinen, H. S. & Rajala, R. P., 2010, In : Environment and History. 16, 2, p. 173-194

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

### **The designing and the implementation of WWW-course "Electricity, Electronics and Environment"**

Korpinen, L., Koskiranta, M., Lehtelä, R., Vesapuisto, M., Tepsa, K. & Puro, H., 2010, In : Elektronika ir Elektrotechnika. 102, 6, p. 75-78

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

### **Water, policy and governance**

Hukka, J. J., Castro, J. E. & Pietilä, P. E., 2010, In : Environment and History. 16, 2, p. 235-251

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

### **Developing and testing characterization methods for droplet combustion - Part I**

Pääkkönen, A., Peltola, A., Pitkänen, A., Mäkiranta, R., Saario, A. & Oksanen, A., 2010, In : Archivum Combustionis. 30, 4, p. 1-6 6 p.

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

### **Hydrodynamic drag and velocity of micro-bubbles in dilute paper machine suspensions**

Haapala, A., Honkanen, M., Liimatainen, H., Stoor, T. & Niinimäki, J., 2010, In : Chemical Engineering Journal. 162, p. 956-964

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

### **The students' feedback on WWW-course "Electricity, Electronics and Environment"**

Vesapuisto, M., Vekara, T., Korpinen, L., Koskiranta, M. & Lehtelä, R., 2010, In : Elektronika ir Elektrotechnika. 102, 6, p. 99-102 4 p.

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

**Rural energy survey and scenario analysis of village energy consumption: A case study in Lao People's Democratic Republic**

Mustonen, S. M., 2010, In : Energy Policy. 38, 2, p. 1040-1048

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

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

Korpinen, L. & Pääkkönen, R., 2009, In : International Journal of Occupational Safety and Ergonomics. 15, 4, p. 385-400

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

**Effect of geometrical parameters on vortex-induced vibration of a splitter plate**

Pärssinen, T., Eloranta, H. & Saarenrinne, P., 2009, In : Journal of Fluids Engineering: Transactions of the ASME. 131, 3, 031203, p. 1-9 9 p.

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

**Vesiyhtymien toiminnan kehittäminen**

Translated title of the contribution: : Vesiyhtymien toiminnan kehittäminen

Takala, A., Hukka, J. J., Katko, T. S. & Pietilä, P. E., 2008, In : Vesitalous. 3, p. 14-18

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

**Hydrolysed cellulose material as sulfate reduction electron donor to treat metal- and sulfate containing waste water**

Lakaniemi, A.-M., Nevatalo, L. M., Kaksonen, A. H. & Puhakka, J. A., 2007, In : Advanced Materials Research. 20-21, p. 326-326

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

**Diversity of microcystin-producing cyanobacteria in spatially isolated regions of Lake Erie**

Rinta-Kanto, J. M. & Wilhelm, S. W., Jul 2006, In : Applied and Environmental Microbiology. 72, 7, p. 5083-5085 3 p.

Research output: Contribution to journal > Article > 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

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

Tauriainen, S. M., Virta, M. P. J. & Karp, M. T., Jul 2000, In : Water Research. 34, 10, p. 2661-2666 6 p.

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

**Water supply and sanitation as an entry point to human development: Vision21- Knowledge synthesis.**

Hukka, J. & Katko, T. S., 1999, In : Vision21- Knowledge synthesis..

Research output: Contribution to journal > Comment/debate > Scientific > peer-review

**A recombinant Escherichia coli sensor strain for the detection of tetracyclines**

Korpela, M. T., Kurittu, J. S., Karvinen, J. T. & Karp, M. T., 1 Nov 1998, In : Analytical Chemistry. 70, 21, p. 4457-4462 6 p.

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

**The need for "champions" in rural water supply**

Katko, T. S., 1994, In : Waterlines. 12, 3, p. 19-22

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

**Enhancement in Lifespan of Halide Perovskite Solar Cells**

Wang, Q., Phung, N., Di Girolamo, D., Vivo, P. & Abate, A., Mar 2019, In : Energy & Environmental Science. 12, 3, p. 865-886

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

### **Recycling mine tailings in chemically bonded ceramics - A review**

Kinnunen, P., Ismailov, A., Solismaa, S., Sreenivasan, H., Räsänen, M-L., Levänen, E. & Illikainen, M., 2018, In : Journal of Cleaner Production. 174, p. 634-649

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

### **Asset Life Cycle Management in Finnish Water Utilities**

Rajala, R. & Hukka, J., 2018, In : JOURNAL OF WATER RESOURCE AND PROTECTION. 10, 6, p. 587-595 9 p.

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

### **Conversion of Solid Waste into Functional Carbon Materials: A Review**

Gogoi, M., Layek, R., Vuorinen, J. & Mahato, M., 1 Mar 2017, In : Energy and Environment Focus. 6, 1, p. 52-68

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

### **Sata vuotta Suomen suurimmasta lavantautiepidemiasta**

Juuti, P. & Rajala, R., 2017, In : Vesitalous. 2017, 1, p. 12-14 3 p.

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

### **Valkea kaupunki, mustat vedet**

Juuti, P. & Rajala, R., 2017, In : Vesitalous. 2017, 1, p. 15-17 3 p.

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

### **Vesihuolto kaupungistuvissa yhteiskunnissa**

Translated title of the contribution: : Water Services in Urbanising Societies

Katko, T. S. & Pietilä, P., 2017, In : Alue ja Ympäristö. 46, 1, p. 32-39 8 p.

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

### **Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems**

Nancharaiyah, Y. V., Venkata Mohan, S. & Lens, P. N. L., Sep 2016, In : Bioresource Technology. 215, p. 173-185

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

### **Microbial electrochemical technologies with the perspective of harnessing bioenergy: Maneuvering towards upscaling**

Butti, S. K., Velvizhi, G., Sulonen, M. L. K., Haavisto, J. M., Oguz Koroglu, E., Yusuf Cetinkaya, A., Singh, S., Arya, D., Annie Modestra, J., Vamsi Krishna, K., Verma, A., Ozkaya, B., Lakaniemi, A-M., Puhakka, J. A. & Venkata Mohan, S., Jan 2016, In : Renewable and Sustainable Energy Reviews. 53, p. 462-476

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

### **Metals removal and recovery in bioelectrochemical systems: A review**

Nancharaiyah, Y. V., Venkata Mohan, S. & Lens, P. N. L., 2015, In : Bioresource Technology. 195, p. 102-114 13 p.

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

### **Bilateral collaboration in municipal water and wastewater services in Finland**

Kurki, V. O., Katko, T. S. & Pietilä, P. E., 2010, In : Water. 2, 4, p. 815-825

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

### **Ikääntyvä infra - vesihuollon keskeisin haaste**

Translated title of the contribution: : Ikääntyvä infra - vesihuollon keskeisin haaste

Heino, O., Katko, T. & Takala, A., 2010, In : Vesitalous. 6, p. 22-24

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

### **Vesitalous - monipuolisesti vesialalta**

Translated title of the contribution: : Vesitalous - monipuolisesti vesialalta

Jaatinen, T., Katko, T. & Pynnönen, S., 2010, In : Vesitalous. 6, p. 45-47

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

### **Measures for Energy Efficient and Low Emission Private Mobility**

Liimatainen, H., 2020, *Affordable and Clean Energy. Encyclopedia of the UN Sustainable Development Goals..* Springer, (Encyclopedia of the UN Sustainable Development Goals).

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

### **Historical development paths and means for winning the challenge of aging water services infrastructure**

Rajala, R., Juuti, P., Hukka, J. & Katko, T. S., 2019, *Resilient Water Services and Systems: The Foundation of Well-Being.* IWA Publishing, p. 15-30 16 p.

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

### **Nature and extent of potable water consumption in Tampere (Finland) and Carletonville (South Africa)**

Rajala, R., Juuti, P. & Nealer, E., 2019, *Resilient Water Services and Systems: The Foundation of Well-Being.* IWA Publishing, p. 149-162 14 p.

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

### **Relevance of the resilience concept and long-term thinking for WSS providers**

Juuti, P., Mattila, H., Rajala, R., Schwartz, K. & Staddon, 2019, *Resilient Water Services and Systems: The Foundation of Well-Being.* IWA Publishing. IWA Publishing, p. 227-236 10 p.

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

### **Resiliency is the key for sustainable water services.**

Juuti, P., Mattila, H., Rajala, R., Schwartz, K. & Staddon, C., 2019, *Resilient Water Services and Systems: The Foundation of Well-Being.* IWA Publishing. IWA Publishing, p. 1-8 8 p.

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

### **Water security and resilience**

Staddon, Juuti, P., Katko, T. S., Mattila, H., Rajala, R. & Schwartz, K., 2019, *Resilient Water Services and Systems: The Foundation of Well-Being.* IWA Publishing, p. 9-14 6 p.

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

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

Leppänen, M., Sarkkila, J., Hämäläinen, H. & Rinkinen, J., 6 Jun 2018, *Proceedings of the 10th International Conference on the Environmental and Technical Implications of Construction with Alternative Materials WASCON 2018: No Gradle, No Grave - Circular Economy into Practice.* Raasakka, V. & Lahtinen, P. (eds.). RIL - Finnish Association of Civil Engineers, p. 168-175

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

### **Water Cooperatives in Tampere, Finland: the case of Pispala**

Juuti, P. & Rajala, R., 2018, *WATERLAT GOBACIT network. Working papers. Challenges and opportunities facing water-service co-operatives: cases from Argentina and Finland.* 4 ed. WATERLAT-GOBACIT Research Network, Vol. 5. p. 23-32 10 p. (WATERLAT GOBACIT; vol. 5, no. 4).

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

### **Yhdyskuntien vesihuolto – kehityksen ja elämän ehto**

Translated title of the contribution: : Community water services - a must for development and life

Juuti, P., Katko, T. S. & Rajala, R., 5 Oct 2017, *Miten Suomesta tuli tekniikan maa. Luku 4: Mikä maa, mikä tekniikka? Tekniikan Museon julkaisuja 8. : How Finland Became a Country of Technology.* Männistö-Funk, T. (ed.). Helsinki: Tekniikan museo, Vol. 8. p. 197-231 34 p. (Tekniikan Museon julkaisuja 8).

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

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

White, P., Rautanen, S-L. & Nepal, P. R., 1 Mar 2017, *Human Rights and Technology.* Garrido Villareal, M. (ed.). Costa Rica: University of Peace, Costa Rica, p. 217-239 23 p.

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

### **Unipoli Green - Four Universities Working Together for Sustainability**

Asikainen, E., Hellman, S., Parjanen, L., Puputti, M., Raatikainen, S. & Schroderus, M., 2 Dec 2016, *Handbook of Theory and Practice of Sustainable Development in Higher Education: Volume 3*. Leal Filho, W., Mifsud, M., Shiel, C. & Pretorius, R. (eds.). Springer International Publishing, p. 257-273 17 p. (World Sustainability Series).

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

### **Water services heritage and institutional diversity**

Katko, T. S., Juuti, P., Pietilä, P. & Rajala, R., 2015, *Water and Heritage: material, conceptual and spiritual connections*. Willems, W. & van Schaik, H. (eds.). Sidestone Press

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

### **History of water and sanitation services in Finland in the urban-rural mixture : The Case of the City of Tampere, Finland**

Katko, T. S. & Juuti, P. S., 2014, *A History of Water: Water and Urbanization: Series III, Volume 1*. Tvedt, T. & Oestigaard, T. (eds.). London: I. B. Tauris, p. 498-519 22 p.

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

### **Water services and cooperation**

Katko, T. S., Hukka, J. J., Mashauri, D. A. & Nyangeri, E. N., 2014, *Global water : issues and insights*. Grafton, R. Q., Wyrwoll, P., White, C. & Allendes, D. (eds.). Australia: ANU Press, Australian National University Press, p. 231-239 9 p.

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

### **Jätehuollon, -politiikan ja -lainsäädännön institutionaalinen kuvaus**

Translated title of the contribution: : Jätehuollon, -politiikan ja -lainsäädännön institutionaalinen kuvaus

Heino, O., Kallio, O., Valkama, P. & Siitonen, P., 2013, *Markkinainnovaatiot yhdyskuntajätehuollossa : tutkimus jätehuoltopalvelujen markkinoiden evoluutiosta, sovelluksista ja jännitteistä kunnallisen ja yksityisen sektorin rajapinnassa*. Valkama, P. (ed.). Tampere: Tampereen yliopisto, Johtamiskorkeakoulu, p. 33-50 18 p.

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

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

Translated title of the contribution: : 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.

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

### **Diversity of the water supply and sanitation sector: roles of municipalities in Europe**

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

### **Jätehuollon tekniset vaihtoehdot**

Translated title of the contribution: : Jätehuollon tekniset vaihtoehdot

Heino, O., 2013, *Markkinainnovaatiot yhdyskuntajätehuollossa : tutkimus jätehuoltopalvelujen markkinoiden evoluutiosta, sovelluksista ja jännitteistä kunnallisen ja yksityisen sektorin rajapinnassa*. Valkama, P. (ed.). Tampere: Tampereen yliopisto, Johtamiskorkeakoulu, p. 51-74 24 p.

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

### **Gestao e organizacao dos servicos de saneamento : Abordagens europeias.**

Translated title of the contribution: : Gestao e organizacao dos servicos de saneamento : Abordagens europeias.

Seppälä, O. & Katko, T. S., 2013, *Politica publica e gestao de servicos de saneamento*. Heller, L. & Esteban Castro, J. (eds.). Belo Horizonte; Rio de Janeiro: Editora da Universidade Federal de Minas Gerais (UFMG); Editora Fiocruz, p. 135-155

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

### **Developing community water services and cooperation in Finland and the South**

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

### **Yhdyskuntajätehuollon markkinainnovaatiot tutkimuskaupungeissa**

Translated title of the contribution: : Yhdyskuntajätehuollon markkinainnovaatiot tutkimuskaupungeissa

Kallio, O., Heino, O., Valkama, P. & Autero, A., 2013, *Markkinainnovaatiot yhdyskuntajätehuollossa : tutkimus jätehuoltopalvelujen markkinoiden evoluutiosta, sovelluksista ja jännitteistä kunnallisen ja yksityisen sektorin rajapinnassa*. Valkama, P. (ed.). Tampere: Tampereen yliopisto, Johtamiskorkeakoulu, p. 114-143 30 p.

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

### **Sidosryhmien näkemykset jätehuollon markkinoistumisesta**

Translated title of the contribution: : Sidosryhmien näkemykset jätehuollon markkinoistumisesta

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### **Safety of lead water pipes: history and present**

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

### **Paradigma alternativo : O papel das cooperativas e das autoridades locais**

Translated title of the contribution: : Paradigma alternativo : O papel das cooperativas e das autoridades locais

Hukka, J. J. & Katko, T. S., 2013, *Politica publica e gestao de servicos de saneamento*. Heller, L. & Esteban Castro, J. (eds.). Belo Horizonte; Rio de Janeiro: Editora da Universidade Federal de Minas Gerais (UFMG); Editora Fiocruz, p. 214-237 24 p.

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

### **Jätehuollon jakautuminen osamarkkinoihin ja yritystoiminta**

Translated title of the contribution: : Jätehuollon jakautuminen osamarkkinoihin ja yritystoiminta

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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

### **Tuotanto- ja operointi-innovaatiot - case vesihuolto**

Translated title of the contribution: : Tuotanto- ja operointi-innovaatiot - case vesihuolto

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### **Biological methane oxidation in landfill cover soil - constrained by concurrent decomposition processes and sulphide oxidation?**

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

### **Tutkimuksen teoreettinen viitekehys**

Translated title of the contribution: : Tutkimuksen teoreettinen viitekehys

Valkama, P., Kallio, O. & Heino, O., 2013, *Markkinainnovaatiot yhdyskuntajätehuollossa : tutkimus jätehuoltopalvelujen markkinoiden evoluutiosta, sovelluksista ja jännitteistä kunnallisen ja yksityisen sektorin rajapinnassa*. Valkama, P. (ed.). Tampere: Tampereen yliopisto, Johtamiskorkeakoulu, p. 16-32 17 p.

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

### **Biofiltration of odours in dry toilet air**

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### **Urban water conflicts in recent European history: Changing interactions between technology, environment and society**

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### **Identification of Wastewater Leaching into the Wells by HPLC-SEC Using UV and Fluorescence Detection**

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

### **Ja alussa oli vesi**

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

### **Vesihuollon alkutaival – kehitys 1910 asti**

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

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

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

### **Laajentumisen aika**

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

### **Vesihuoltoa kuntiin**

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

### **Uuden vuosituuhannen tiennäyttäjät – HS-Veden alkutaival**

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 177-222

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

### **Vesi on parasta kylmänä – loppusanat**

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### **UV irradiation for Micropollutant removal from aqueous solution in the presence of H2O2**

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

### **Pintavedestä pohjaveteen ja tekopohjaveteen**

Translated title of the contribution: : Pintavedestä pohjaveteen ja tekopohjaveteen

Katko, T., 2010, *Näkymätönt Porrii. Porin Veden historia*. Juuti, P., Katko, T., Louekari, S. & Rajala, R. (eds.). p. 236-311

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### **Water and sanitation services in history: Motivations, expectations and experiences**

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

### **Asteittain kohti keskitettyä jätevedenpuhdistusta**

Translated title of the contribution: : Asteittain kohti keskitettyä jätevedenpuhdistusta

Katko, T., 2010, *Näkymätönt Porrii. Porin Veden historia*. Juuti, P., Katko, T., Louekari, S. & Rajala, R. (eds.). p. 312-369

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

### **Mihin jätevedenpuhdistusta tarvitaan?**

Juuti, P. & Rajala, R., 2010, *Metropoli ja meri - 100 vuotta jätevedenpuhdistusta Helsingissä*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 13-35

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

### **Jätevedenpuhdistuksen ja viemäröinnin vaiheita Helsingissä**

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

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

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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

### **Kohti puhtaampaa Itämerä**

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

### **Johdanto: vesirikas Riihimäki**

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

### **Pohjavesi, meidän vesi**

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



### **Vesilinna, Riihimäen maamerkki**

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

### **Verkoston varrella**

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

### **Vesihuollon haasteet ennen ja nyt**

Juuti, P. & Rajala, R., 2010, *Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia*. Juuti, P., Rajala, R., Pietilä, P. & Katko, T. (eds.). TamPub, p. 278-299

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

### **Hyvien yhteyksien ja hyvän veden kaupunki**

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

### **Kaivoista ja käymälöistä kohti kunnallista vesihuoltoa**

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

### **"Poika, nyt lähdettiin hommiin" - vesilaitos syntyy**

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

### **Vesihuollon historia pätkinänkuoressa**

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

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### **Vesihuoltoa espoossa ennen kunnallista vesilaitosta**

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### **Päijänne-tunneli ja kolmisopimus**

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### **Ensimmäiset fuusiosuunnitelmat**

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### **Yhdistymishankkeet 2000-luvulla**

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

### **Loppuluku – haasteita riittää tulevaisuuteen**

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### **Palo, jano, terveys, hygienia**

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### **Virta: Kajaani, kaupunki joen varrella**

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### **Syntymä ja kuolema: Laitoksen perustamiseen johtanut kehitys**

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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

### **Tausta: Jätevedenpuhdistuksen alku, tehtävän määrittely ja keskeiset käsitteet**

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#### **Kirjastolta uutta tiedonhankinnan opetusta tukemaan opetusta antavien yksiköiden toimintaa**

Translated title of the contribution: : Kirjastolta uutta tiedonhankinnan opetusta tukemaan opetusta antavien yksiköiden toimintaa

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### **Environmental history of water: Global view of community water supply and sanitation**

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Research output: Contribution to journal › Editorial › Scientific

### **Vieraskynä : Vesialan osaamista kehitettävä yhteiskunnan tarpeista**

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#### **Kuka päättää vesihuollon tulevaisuudesta? (Who decides on the future of the water supply?)**

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

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### **Stabilization of fine fraction from landfill mining in leach bed reactor**

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#### **Hybrid barrier films by atmospheric inline plasma deposition on sol-gel coated PE-cardboard**

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### **Finnish water services: Experiences in global perspective**

Katko, T. S., 7 Jul 2017, London: IWA Publishing. 288 p.

Research output: Book/Report > Book > Scientific > peer-review

### **Historian hajuista tuoksuja tulevaisuuteen: pääkaupunkiseudun jätevedenpuhdistuksen keskeiset päätökset Espoon näkökulmasta**

Translated title of the contribution: : From Stinky History to Fragrant Future: Waste water treatment of the metropolitan area - central decisions on the point of view of Espoo

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### **Hanaa! Suomen vesihuolto - kehitys ja yhteiskunnallinen merkitys**

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### **Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia**

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Research output: Book/Report > Anthology > Scientific > peer-review

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### **Water Fountains in the Cityscape**

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### **Governance in water sector - comparing development in Kenya, Nepal, South Africa and Finland**

Juuti, P. S. (ed.), Katko, T. S. (ed.), Mäki, H. R. (ed.), Nyanchaga, E. N. (ed.), Rautanen, S-L. (ed.) & Vuorinen, H. S. (ed.), 2007, Unknown Publisher.  
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### **Water, Time and European Cities : History matters for the Futures**

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### **Koulutus ja tutkimus kehityksen moottorina**

Translated title of the contribution: : Education and research driving development  
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Research output: Contribution to journal > Article > Professional

### **Vetoa vesihuoltopalveluihin täydennyskoulutuksen kautta**

Translated title of the contribution: : Continuing education empowering water services development  
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Research output: Contribution to journal > Article > Professional

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Research output: Contribution to journal > Article > Professional



### **Vesihuollon instituutiot vaativat taitavaa jalkapallopeleä**

Translated title of the contribution: : Water services institutions require skilful soccer playing

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Translated title of the contribution: : Water services safeguarding our environment: beliefs and realities

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Research output: Contribution to journal › Article › Professional

### **WC-tilat ja -opasteet vain likana silmissämme?**

Translated title of the contribution: : WC and signs only as dirt in our eyes?

Katko, T. S., 2018, In : Kuntatekniikka. 72, 4, p. 45 1 p.

Research output: Contribution to journal › Article › Professional

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Juuti, P. & Rajala, R., 2018, In : Vesitalous. 5, p. 21-23 3 p.

Research output: Contribution to journal › Article › Professional

### **Kapkaupungin pysyvä vesikriisi – ratkeaako vesipula, jos lisää vettä pumpataan vuotavaan verkostoon**

Juuti, P. & Rajala, R., 2018, In : Vesitalous. 5, p. 39-42 4 p.

Research output: Contribution to journal › Article › Professional

### **Yli 60 tonnin yhdistelmät parantaneet kuljetusten tehokkuutta**

Liimatainen, H., 4 Sep 2017, In : Tie ja Liikenne. 2017, 4, p. 30-32

Research output: Contribution to journal › Article › Professional

### **Vesihuollon globaalit haasteet ja instituutioiden roolit**

Translated title of the contribution: : Global challenges and role of institutions in water services

Katko, T. S., 9 May 2017, In : Econetin asiakaslehti AQ. 1, p. 15 1 p.

Research output: Contribution to journal › Article › Professional

### **Global challenges and role of institutions in water services**

Katko, T. S., 9 May 2017, In : Econetin asiakaslehti AQ. 1, p. 15 1 p.

Research output: Contribution to journal › Article › Professional

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Translated title of the contribution: : Operational water services are not self evident

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Research output: Contribution to journal › Article › Professional

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Research output: Contribution to journal › Article › Professional

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Ojala, P., Saarenrinne, P., Miettinen, J., Multanen, P., Kiilunen, J., Hietala, J-P., Kolu, A., Pippola, J., Mostofizadeh, M. & Ylönen, M., 2015, In : Promaint. 2, p. 24-27 4 p.

Research output: Contribution to journal › Article › Professional

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Research output: Contribution to journal › Article › Professional

### **Osuuskunnat mukaan infrastruktuuripolitiikkaan**

Translated title of the contribution: : 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

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

Translated title of the contribution: : Geo + Environment = Environmental Geotechnics?

Leppänen, M., Mar 2013, In : Geofoor. 39, p. 6-7 2 p.

Research output: Contribution to journal › Article › Professional

### **Johtoja ja joukkuehenkeä**

Translated title of the contribution: : Johtoja ja joukkuehenkeä

Heino, O., 2013, In : Vesitalous. 3, p. 11-13 3 p.

Research output: Contribution to journal › Article › Professional

### **Vesihuollon kehitys ja yhteiskunnallinen merkitys : Hapertuvatko hanat?**

Translated title of the contribution: : Vesihuollon kehitys ja yhteiskunnallinen merkitys : Hapertuvatko hanat?

Katko, T. S., 2013, In : Kuntatekniikka. 5, p. 14-16 3 p.

Research output: Contribution to journal › Article › Professional

### **Heikot signaalit vesihuollossa**

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Heino, O. & Takala, A., 2013, In : Vesitalous. 4, p. 29-31 3 p.

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### **Käänteiset perusrakenteet : Suuntana hajautettu infrastruktuuripolitiikka?**

Translated title of the contribution: : Käänteiset perusrakenteet : Suuntana hajautettu infrastruktuuripolitiikka?

Heino, O. & Anttiroiko, A-V., 2013, In : Kuntatekniikka. 1, p. 40-42 3 p.

Research output: Contribution to journal › Article › Professional

### **Dags att syna utmaningarna inom vattenförsörjningen**

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Katko, T. S., 2013, In : Finlands Kommuntidning. 19, 8, p. 30-31 2 p.

Research output: Contribution to journal › Article › Professional

### **Vesihuolto osana näkymätöntä kaupunkia**

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Research output: Contribution to journal › Article › Professional

### **Focus and Change of Water Management in Finland – Analysis of Vesitalous Journal, 1960-2009**

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Research output: Contribution to journal › Article › Professional

### **Testattua tahdistusta**

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Korpinen, L., 2012, In : Sähkö & Tele. 85, 3, p. 24-26

Research output: Contribution to journal › Article › Professional

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

Translated title of the contribution: : Ulkoistaminen apuväline vesihuoltoverkostojen kunnossapitoon?

Heino, O., 2012, In : Promaint. 26, 5, p. 10-12

Research output: Contribution to journal › Article › Professional

### **Vesihuollon historian lyhyt oppimäärä**

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Research output: Contribution to journal › Article › Professional

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

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Research output: Contribution to journal › Article › Professional

### **Lack of water engineers hampering development. North-South cooperation in higher education is a must**

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Research output: Contribution to journal › Article › Professional

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

Translated title of the contribution: : Helsinki sai ensimmäisen puhdistamonsa 1910; Helsinki gained its first wastewater treatment plant 1910

Juuti, P., Katko, T. & Rajala, R., 2011, In : Kuntatekniikka. 66, 1, p. 49-50

Research output: Contribution to journal › Article › Professional

### **Syytä olla ylpeä**

Translated title of the contribution: : Syytä olla ylpeä

Hukka, J. J., Katko, T. S. & Pietilä, P. P., 2011, In : Kehitys. 2, p. 40-40

Research output: Contribution to journal › Article › Professional

### **Vesihuollon ylikunnalliset sopimukset lisääntymässä**

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### **TTY:ssä panostetaan pakkausalaan**

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Research output: Contribution to journal › Article › Professional

### **Yhdysvaltain vesihuollossa julkissektori avainasemassa. Haasteina niukentuvien vesivarojen hallinta ja ikääntyvä infrastruktuuri**

Translated title of the contribution: : Yhdysvaltain vesihuollossa julkissektori avainasemassa. Haasteina niukentuvien vesivarojen hallinta ja ikääntyvä infrastruktuuri

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### **Tempoilevasta tiede- ja koulutuspolitiikasta kohti laajempaa näkemystä**

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### **Deterioration mechanisms and life cycle of concrete monoblock railway sleepers in Finnish conditions**

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**A study of a condensing heat exchanger and electrostatic precipitator combination for small-scale wood combustion**  
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**L'oxydation chimique pour la remediation des sols contamines par des composes recalcitrants. Cas de la chlordecone**  
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**Merkittävimmät päästövähennystoimet ilmastonmuutoksen hillitsemiseksi**

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**Autolaskurin käyttöopas ja laskennan perusteet**

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**Sähköautoilla suuri vähennys päästöihin - pian myös kilpailukykyiseen hintaan**

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