

**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.

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

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

Aalto, S. L., Saarenheimo, J., Arvola, L., Tirola, 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**

Mangayil, R., Efimova, E., Konttinen, J. & Santala, V., 11 Jul 2019, In : New Biotechnology. 53, p. 81-89 9 p.

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**

Pääkkönen, A. & Joronen, T., 15 May 2019, In : Energy Conversion and Management. 188, p. 66 - 75

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**

Khanongnuch, R., Di Capua, F., Lakaniemi, A-M., Rene, E. R. & Lens, P., 29 Apr 2019, In : Environmental Science: Water Research & Technology. 5, 6, p. 1072-1081

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.

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

**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**

Özkaya, B., Kaksonen, A. H., Sahinkaya, E. & Puhakka, J. A., 1 Mar 2019, In : Water Research. 150, p. 452 - 465

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.

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

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

Liimatainen, H., van Vliet, O. & Aplyn, D., 15 Feb 2019, In : Applied Energy. 236, p. 804-814 11 p.

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

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

Möllmann, A., Gedamu, D., Vivo, P., Frohnhoven, R., Stadler, D., Fischer, T., Ka, I., Steinhorst, M., Nechache, R., Rosei, F., Cloutier, S. G., Kirchartz, T. & Mathur, S., Jan 2019, In : Advanced Engineering Materials. 21, 4, 8 p., 1801196.

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

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

Järvinen, H., Honkanen, M., Oja, O., Järvenpää, M. & Peura, P., 2019, In : Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science. 50, 2, p. 816-836 21 p.

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

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

Hirvonen, J., Jokisalo, J., Heljo, J. & Kosonen, R., 2019, In : International Journal of Sustainable Energy. 38, 7

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

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

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

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

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

Singh, S., Rinta-Kanto, J., Kettunen, R., Lens, P., Collins, G., Kokko, M. & Rintala, J., 2019, In : ARCHAEA. 2019, 1751783.

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

**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.

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

### **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

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

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

Chatterjee, P., Granatier, M., Ramasamy, P., Kokko, M., Lakaniemi, A-M. & Rintala, J., 2019, In : Journal of Environmental Management. 237, p. 119 - 127 9 p.

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

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

Tao, R., Bair, R., Lakaniemi, A. M., van Hullebusch, E. D. & Rintala, J. A., 2019, In : Journal of Applied Phycology.

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

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

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

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

### **Adaptation of Black Carbon Footprint concept would accelerate mitigation of global warming**

Timonen, H., Karjalainen, P., Aalto, P., Saarikoski, S., Mylläri, F., Karvosenoja, N., Jalava, P., Asmi, E., Aakko-Saksa, P., Saukkonen, N., Laine, T., Saarnio, K., Niemelä, N., Enroth, J., Väkevä, M., Oyola, P., Pagels, J., Ntzachristos, L., Cordero, R., Kuittinen, N., Niemi, J. V. & Rönkkö, T., 2019, In : Environmental Science and Technology. 53, 21, p. 12153-12155

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

### **CO2 reduction costs and benefits in transport: socio-technical scenarios**

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

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

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

Salunke, J., Durandin, N., Ruoko, T-P., Rafael Candeias, N., Vivo, P., Vuorimaa-Laukkanen, E., Laaksonen, T. & Priimägi, A., 26 Sep 2018, In : Scientific Reports. 8, 14431 .

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

### **Anxiety vs reality – Sufficiency of battery electric vehicle range in Switzerland and Finland**

Melliger, M., van Vliet, O. P. R. & Liimatainen, H., 23 Aug 2018, In : TRANSPORTATION RESEARCH PART D: TRANSPORT AND ENVIRONMENT. 65, p. 101-115 15 p.

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

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

Liimatainen, H., Greening, P., Dadhich, P. & Keyes, A., 4 Aug 2018, In : Sustainability. 10, 8, 19 p.

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

### **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**

Hiltunen, A., Ruoko, T-P., Iivonen, T., Lahtonen, K., Ali-Löytty, H., Sarlin, E., Valden, M., Leskelä, M. & Tkachenko, N., 31 Jul 2018, In : Sustainable Energy & Fuels. 2, 9, p. 2124-2130

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

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

Keskikuru, T., Salo, J., Huttunen, P., Kokotti, H., Hyttinen, M., Halonen, R. & Vinha, J., 15 Jun 2018, In : Building and Environment. 138, p. 1-10 10 p.

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

**Economic analysis of hydrogen production by methane thermal decomposition: Comparison to competing technologies**  
Keipi, T., Tolvanen, H. & Konttinen, J., 1 Mar 2018, In : Energy Conversion and Management. 159, p. 264-273 10 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol**  
Kainulainen, T. P., Sirviö, J. A., Sethi, J., Hukka, T. I. & Heiskanen, J. P., 21 Feb 2018, In : Macromolecules. 51, 5, p. 1822-1829 8 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

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

**Recycling potential of post-consumer plastic packaging waste in Finland**  
Dahlbo, H., Poliakova, V., Mylläri, V., Sahimaa, O. & Anderson, R., 2018, In : Waste Management. 71, p. 52-61  
Research output: Contribution to journal › Article › Scientific › peer-review

**Valorization of Finnish mining tailings for use in the ceramics industry**  
Solismaa, S., Ismailov, A., Karhu, M., Sreenivasan, H., Lehtonen, M., Kinnunen, P., Illikainen, M. & Räisänen, M-L., 2018, In : BULLETIN OF THE GEOLOGICAL SOCIETY OF FINLAND. 90, 1, p. 33-54  
Research output: Contribution to journal › Article › Scientific › peer-review

**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**  
Maanoja, S. & Rintala, J., 2018, In : Waste Management. 82, p. 82-92 11 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Landowners' willingness to promote bioenergy production on wasteland – future impact on land use of cutaway peatlands**  
Laasasenaho, K., Lensu, A., Rintala, J. & Lauhanen, R., 1 Dec 2017, In : Land Use Policy. 69, p. 167-175 9 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Sata vuotta vesihuoltoa Suomessa**  
Translated title of the contribution: : One hundred years of water services in Finland  
Juuti, P., Katko, T. S. & Rajala, R., Dec 2017, In : Vesitalous. 58, 6, p. 13-15 3 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Vesihuollon ammattilaiset ovat verkostoituneet kautta aikojen**  
Translated title of the contribution: : Water services professionals have networked throughout history  
Katko, T. S., Juuti, P. & Rajala, R., Dec 2017, In : Vesitalous. 58, 6, p. 16-19 4 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

**Understanding sustainable development in Finnish water supply and sanitation services**  
Takala, A., Dec 2017, In : International Journal of Sustainable Built Environment. 6, 2, p. 501-512  
Research output: Contribution to journal › Article › Scientific › peer-review

**Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties**  
Sippola, R. J., Hadipour, A., Kastinen, T., Vivo, P., Hukka, T. I., Aernouts, T. & Heiskanen, J. P., 8 Nov 2017, In : Dyes and Pigments. 150, p. 79-88 10 p., j.dyepig.2017.11.014.  
Research output: Contribution to journal › Article › Scientific › peer-review

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

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

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

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

L.K. Sulonen, M., Lakaniemi, A-M., Kokko, M. E. & Puhakka, J. A., Feb 2017, In : Bioresource Technology. 226, p. 173-180 8 p.

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

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

Behailu, B. M., Hukka, J. J. & Katko, T. S., 2017, In : Public Works Management & Policy. 22, 2, p. 179-196

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**

Vivo, P., Ojanpeřä, A., Smätt, J-H., Sänden, S., Hashmi, S. G., Kaunisto, K., Ihalainen, P., Masood, M. T., Österbacka, R., Lund, P. D. & Lemmetyinen, H., 2017, In : Organic Electronics. 41, p. 287-293

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

**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.

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

**Taking Water Services to the Next Level: A Paradigm Shift?**

Heino, O., 2017, In : Public Works Management & Policy. 22, 1, p. 12-17 6 p.

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**

Hashmi, S. G., Tiihonen, A., Martineau, D., Özkan, M., Vivo, P., Kaunisto, K., Vainio, U., Zakeeruddin, S. M. & Grätzel, M., 2017, In : Journal of Materials Chemistry A. 5, 10, p. 4797-4802

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**

Särkilähti, M., Kinnunen, V., Kettunen, R., Jokinen, A. & Rintala, J., 2017, In : Technological Forecasting and Social Change. 118, p. 195-204

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**

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

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

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

Behailu, B. M., Pietilä, P. E. & Katko, T. S., 6 Dec 2016, In : SAGE OPEN. 6, 4, p. 1-11 11 p.

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

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

Rissanen, A. J., Ojala, A., Fred, T., Toivonen, J. & Tiirola, M., 8 Nov 2016, In : Journal of Industrial Microbiology and Biotechnology. p. 1-13

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

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

Kramb, J., Konttinen, J., Backman, R., Salo, K. & Roberts, M., 1 Oct 2016, In : Fuel. 181, p. 319-324 6 p.

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

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

Rissanen, A. J., Ojala, A., Dernjatin, M., Jaakkola, J. & Tirola, M., 1 Oct 2016, In : Journal of Industrial Microbiology and Biotechnology. p. 1-11

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

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

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

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

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

Taddeo, R., Kolppo, K. & Lepistö, R., 15 Sep 2016, In : Journal of Environmental Management. 180, p. 52-58 7 p.

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

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

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

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

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

Hilliaho, K., Kovalainen, V., Huuhka, S. & Lahdensivu, J., 1 Aug 2016, In : Energy and Buildings. 125, p. 27-44 18 p.

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

**Hydrothermal carbonization of pulp mill streams**

Wikberg, H., Ohra-aho, T., Honkanen, M., Kanerva, H., Harlin, A., Vippola, M. & Laine, C., 1 Jul 2016, In : Bioresource Technology. 212, p. 236-244 9 p.

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

**Innovative use of recovered municipal solid waste incineration bottom ash as a component in growing media**

Sormunen, A., Kanniainen, T., Salo, T. & Rantsi, R., 1 Jul 2016, In : Waste Management and Research. 34, 7, p. 595-604

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

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

Rozsak, J., Catalán, J., Järventaus, H., Lindberg, H. K., Suhonen, S., Vippola, M., Stepnik, M. & Norppa, H., 1 Jul 2016, In : Mutation Research: Genetic Toxicology and Environmental Mutagenesis. 805, p. 7-18 12 p.

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

**Parameters Affecting the Upcycling of Waste Cotton and PES/CO Textiles**

Vats, S. & Rissanen, M., 30 May 2016, In : Recycling. 1, 1, p. 166-177 12 p.

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.

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

**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 : Biochemical Engineering Journal. 103, p. 177-184 8 p.

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

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

Vinha, J., Manelius, E., Korpi, M., Salminen, K., Kurnitski, J., Kiviste, M. & Laukkarinen, A., 1 Nov 2015, In : Building and Environment. 93, P2, p. 128-140 13 p.

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.

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

#### **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.

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

#### **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.

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

#### **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.

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

**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.

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

**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.

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

**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.

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

#### **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.

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

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

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

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

#### **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.

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

### **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. Esimerkkinä Georgian osavaltion palvelu-uudistus**

Translated title of the contribution: : Insentiivit julkisen sektorin innovaatiotoiminnan edistämisen välineinä. Esimerkkinä 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**

Pietilä, P., 2013, *Water Services Management and Governance : Lessons for a Sustainable Future*. Katko, T. S., Juuti, P. S., Schwartz, K. & Rajala, R. P. (eds.). IWA Publishing, p. 99-111 13 p.

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**

Katko, T. S. & Rautavaara, A., 2013, *Free Flow - Researching Water Security Through Cooperation*. Griffiths, J. & Lambert, R. (eds.). United Nations Educational, Scientific and Cultural Organization; Unesco Publishing; Tudor Rose, p. 240-244 5 p.

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

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. 144-158 15 p.

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

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

Vuorinen, H. S., Juuti, P. S. & Katko, T. S., 2013, *Water Services Management and Governance : Lessons for a Sustainable Future*. Katko, T. S., Juuti, P. S., Schwartz, K. & Rajala, R. P. (eds.). IWA Publishing, p. 89-96 7 p.

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

Kallio, O., Valkama, P., Siitonen, P. & 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. 99-113 15 p.

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

### **Integration of water and wastewater utilities**

Katko, T. S., Kurki, V. O., Juuti, P. S., Rajala, R. P. & Seppälä, O. T., 2013, *Water Services Management and Governance : Lessons for a Sustainable Future*. Katko, T. S., Juuti, P. S., Schwartz, K. & Rajala, R. P. (eds.). IWA Publishing, p. 29-40 12 p.

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

Heino, O., 2013, *Huomispäivän infrastruktuuri. Kuntaliiton verkkojulkaisu. Acta 240*. Malinen, P., Anttiroiko, A-V., Haahtela, T. & Siitonen, P. (eds.). Suomen Kuntaliitto, p. 120-138 19 p.

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

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

Maanoja, S., Palmroth, M. & Rintala, J., 2013, *Biotechniques for air pollution control and bioenergy*. Luc, M. (ed.). Paris: Presses des MINES, p. 65-72 8 p.

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

### **Technology development theories and water services evolution**

Antila, K., Katko, T. S. & Mattila, H., 2013, *Water Services Management and Governance : Lessons for a Sustainable Future*. Katko, T. S., Juuti, P. S., Schwartz, K. & Rajala, R. P. (eds.). IWA Publishing, p. 13-27 15 p.

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**

Palmroth, M. R. T., Kolha, V., Ramos Garcia, A., Richter, C., Crosnier, F., Perrier, L. & Tuhkanen, T., 2013, *Biotechniques for air pollution control and bioenergy*. Malhautier, L. (ed.). Paris: Presses des MINES, p. 291-297 7 p.

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

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

Barraque, B., Juuti, P. S. & Katko, T. S., 2012, *Urban water conflicts*. Barraque, B. (ed.). Taylor & Francis and UNESCO Publishing; A Balkema book, p. 15-32 (Urban water series, UNESCO IHP; vol. 7).

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

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

Szabo, H. M. & Tuhkanen, T., 2011, *Survival and Sustainability : Environmental concerns in the 21st Century*. Huseyin, G., Umut, T. & James, W. L. (eds.). Springer Berlin Heidelberg, p. 893-897 (Environmental Earth Sciences).

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

### **Ja alussa oli vesi**

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 15-18

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

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

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 19-50

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

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

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 51-74

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

### **Laajentumisen aika**

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 75-118

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

### **Vesihuoltoa kuntiin**

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 119-176

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**

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 223-231

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

### **Kinetics of biomass pyrolysis**

Kokko, L., Tolvanen, H., Hankalin, V. & Raiko, R., 2010, *BioRefine Yearbook 2010. Tekes Rewiew*. Mäkinen, T., Alakangas, E. & Kauppi, M. (eds.). p. 39-45

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

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

Tuhkanen, T. A. & Cajal Marinosa, P., 2010, *Treatment of Micropollutants in Water and Wastewater. Integrated Environmental Technology Series*. Virkutyte, J., Varma, R. & Jegatheesan, V. (eds.). p. 295-320

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

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

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

Juuti, P. S., Nygård, H. & Katko, T. S., 2010, *A History of Water, Series II, Volume 1: Ideas of Water from Ancient Societies to the Modern World*. Tvedt, T. & Oestigaard, T. (eds.). p. 231-249

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**

Juuti, P. & Rajala, R., 2010, *Metropoli ja meri - 100 vuotta jätevedenpuhdistusta Helsingissä*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 36-90

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

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

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

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

### **Tavoitteena puhdas asuin ympäristö**

Juuti, P. & Rajala, R., 2010, *Metropoli ja meri - 100 vuotta jätevedenpuhdistusta Helsingissä*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 114-134

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

### **Kohti puhtaampaa Itämerä**

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

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

### **Johdanto: vesirikas Riihimäki**

Juuti, P., Pietilä, P. & Rajala, R., 2010, *Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia*. Juuti, P., Rajala, R., Pietilä, P. & Katko, T. (eds.). TamPub, p. 26-33

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

### **Pohjavesi, meidän vesi**

Rajala, R., 2010, *Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia*. Juuti, P., Rajala, R., Pietilä, P. & Katko, T. (eds.). TamPub, p. 110-147

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

### **Vesilinna, Riihimäen maamerkki**

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. 148-183

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

### **Verkoston varrella**

Rajala, R., 2010, *Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia*. Juuti, P., Rajala, R., Pietilä, P. & Katko, T. (eds.). TamPub, p. 184-229

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**

Juuti, P., Rajala, R. & Pietilä, P., 2010, *Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia*. Juuti, P., Rajala, R., Pietilä, P. & Katko, T. (eds.). TamPub, p. 314-333

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

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

Juuti, P., 2010, *Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia*. Juuti, P., Rajala, R., Pietilä, P. & Katko, T. (eds.). TamPub, p. 34-63

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

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

Juuti, P., 2010, *Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia*. Juuti, P., Rajala, R., Pietilä, P. & Katko, T. (eds.). TamPub, p. 64-109

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

### **Vesihuollon historia pätkinänkuoressa**

Juuti, P., 2010, *Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia*. Juuti, P., Rajala, R., Pietilä, P. & Katko, T. (eds.). TamPub, p. 300-313

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

### **Asiakkaat, verkostot ja henkilöstö**

Rajala, R., 2010, *Näkymätöntä Porii: Porin Veden historia*. Juuti, P., Katko, T., Louekari, S. & Rajala, R. (eds.). TamPub, p. 370-491

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

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

Juuti, P. & Rajala, R., 2009, *Vesihuoltoyhteistyötä yli rajojen: PK-seudun yhteistyöhankkeet ja yhdistämissuunnitelmat ennen ja nyt Espoon näkökulmasta*. Juuti, P. & Rajala, R. (eds.). University of Tampere, p. 5-26

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

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

Juuti, P. & Rajala, R., 2009, *Vesihuoltoyhteistyötä yli rajojen: PK-seudun yhteistyöhankkeet ja yhdistämissuunnitelmat ennen ja nyt Espoon näkökulmasta*. Juuti, P. & Rajala, R. (eds.). University of Tampere, p. 27-38

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

### **Ensimmäiset fuusiosuunnitelmat**

Juuti, P. & Rajala, R., 2009, *Vesihuoltoyhteistyötä yli rajojen: PK-seudun yhteistyöhankkeet ja yhdistämissuunnitelmat ennen ja nyt Espoon näkökulmasta*. Juuti, P. & Rajala, R. (eds.). University of Tampere, p. 39-76

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

### **Yhdistymishankkeet 2000-luvulla**

Juuti, P. & Rajala, R., 2009, *Vesihuoltoyhteistyötä yli rajojen: PK-seudun yhteistyöhankkeet ja yhdistämissuunnitelmat ennen ja nyt Espoon näkökulmasta*. Juuti, P. & Rajala, R. (eds.). University of Tampere, p. 77-130  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

Juuti, P. S. & Rajala, R., 2009, *Vesihuoltoyhteistyötä yli rajojen: PK-seudun yhteistyöhankkeet ja yhdistämissuunnitelmat ennen ja nyt Espoon näkökulmasta*. Juuti, P. & Rajala, R. (eds.). University of Tampere, p. 131-144  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

Juuti, P., Rajala, R. & Katko, T. S., 2009, *Elämän virta: Kajaanin veden historia*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 13-20  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

Juuti, P., Rajala, R. & Katko, T. S., 2009, *Elämän virta: Kajaanin veden historia*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 21-36  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

Juuti, P., Rajala, R. & Katko, T. S., 2009, *Elämän virta: Kajaanin veden historia*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 37-46  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### **Tuli: Pelko ja pelastus**

Juuti, P., Rajala, R. & Katko, T. S., 2009, *Elämän virta: Kajaanin veden historia*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 47-64  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### **Vesi: Vesilaitoksen alkutaival 1920-luvulta 1970-luvulle**

Juuti, P., Rajala, R. & Katko, T. S., 2009, *Elämän virta: Kajaanin veden historia*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 65-92  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### **Lähde: Pohjavedenottamot**

Juuti, P., Rajala, R. & Katko, T. S., 2009, *Elämän virta: Kajaanin veden historia*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 93-136  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### **Saasta: Jätevesien puhdistus ja viemäröinti**

Juuti, P., Rajala, R. & Katko, T. S., 2009, *Elämän virta: Kajaanin veden historia*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 137-174  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

Juuti, P., Rajala, R. & Katko, T. S., 2009, *Elämän virta: Kajaanin veden historia*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 175-228  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### **Yhteistyö**

Juuti, P., Rajala, R. & Katko, T. S., 2009, *Elämän virta: Kajaanin veden historia*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 229-256  
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

### **Visio: Historian havinaa ja tulevaisuuden haasteita**

Juuti, P., Rajala, R. & Katko, T. S., 2009, *Elämän virta: Kajaanin veden historia*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 257-270

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

### **Fire, Thirst, Health and Hygiene: Root Causes for the Introduction of Water Supply and Sanitation in Kajaani**

Juuti, P., Rajala, R. & Katko, T. S., 2009, *Elämän virta: Kajaanin veden historia*. Juuti, P., Rajala, R. & Katko, T. (eds.). TamPub, p. 275-286

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

### **Introduction: Evolution and futures of water management: strategic decisions, challenges and effectiveness**

Juuti, P. S., Katko, T. S. & Rajala, R. P., 2008, *Water: a Matter of Life - Long-term strategic thinking in water services*. 193 p. *KehraMedia Inc*. Juuti P.S., K. T. S. & Rajala, R. P. (eds.). p. 6-20

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

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

Juuti, P. & Rajala, R., 2008, *Ei jätevedenpuhdistamoa minun takapihalleni: Jätevedenpuhdistuksen päätöksenteko, päätäntäprosessit ja julkinen keskustelu Espoossa historiassa, nyt ja tuellaisuudessa*. Juuti, P. & Rajala, R. (eds.). TamPub, p. 7-18

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

### **Vesihuollon alku Espoossa: ensimmäiset päätökset**

Juuti, P. & Rajala, R., 2008, *Ei jätevedenpuhdistamoa minun takapihalleni: Jätevedenpuhdistuksen päätöksenteko, päätäntäprosessit ja julkinen keskustelu Espoossa historiassa, nyt ja tuellaisuudessa*. Juuti, P. & Rajala, R. (eds.). TamPub, p. 19-38

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

### **Yhteistyötarpeet ja synergiaedut : miksi hoitaa kaikkien jätevedet?**

Juuti, P. & Rajala, R., 2008, *Ei jätevedenpuhdistamoa minun takapihalleni: Jätevedenpuhdistuksen päätöksenteko, päätäntäprosessit ja julkinen keskustelu Espoossa historiassa, nyt ja tuellaisuudessa*. Juuti, P. & Rajala, R. (eds.). TamPub, p. 39-64

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

### **Vaatus paremmasta puhdistustuloksesta ohjaa jätevedenpuhdistuksen päätöksentekoa**

Juuti, P. & Rajala, R., 2008, *Ei jätevedenpuhdistamoa minun takapihalleni: Jätevedenpuhdistuksen päätöksenteko, päätäntäprosessit ja julkinen keskustelu Espoossa historiassa, nyt ja tuellaisuudessa*. Juuti, P. & Rajala, R. (eds.). TamPub, p. 65-72

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

### **Espoo päättää siirtyä kärkipaikalle**

Juuti, P. & Rajala, R., 2008, *Ei jätevedenpuhdistamoa minun takapihalleni: Jätevedenpuhdistuksen päätöksenteko, päätäntäprosessit ja julkinen keskustelu Espoossa historiassa, nyt ja tuellaisuudessa*. Juuti, P. & Rajala, R. (eds.). TamPub, p. 73-76

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

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

Juuti, P. & Rajala, R., 2008, *Ei jätevedenpuhdistamoa minun takapihalleni: Jätevedenpuhdistuksen päätöksenteko, päätäntäprosessit ja julkinen keskustelu Espoossa historiassa, nyt ja tuellaisuudessa*. Juuti, P. & Rajala, R. (eds.). TamPub, p. 77-84

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

### **Voimaa historiallisesta yhteistyöstä**

Juuti, P. & Rajala, R., 2008, *Ei jätevedenpuhdistamoa minun takapihalleni: Jätevedenpuhdistuksen päätöksenteko, päätäntäprosessit ja julkinen keskustelu Espoossa historiassa, nyt ja tuellaisuudessa*. Juuti, P. & Rajala, R. (eds.). TamPub, p. 85-100

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

### **Part II: Period of Slow Development. Ch 8. Introduction: pp. 99-102. Conclusions**

Juuti, P. S., Katko, T. S. & Vuorinen, H. S., 2007, 2007. *Environmental History of Water - Global views on community water supply and sanitation*. IWA Publishing. Juuti P.S., K. T. S. & Vuorinen, H. S. (eds.). p. 99-102 4 p.

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

### **Part III: Modern Urban Infrastructure. Ch 20 Introduction**

Juuti, P. S., Katko, T. S. & Vuorinen, H. S., 2007, 2007. *Environmental History of Water - Global views on community water supply and sanitation*. IWA Publishing. Juuti P.S., K. T. S. & Vuorinen, H. S. (eds.). p. 509-510

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

### **Water is the Beginning of All: Global Water Services and Challenges**

Juuti, P. S., Katko, T. S. & Vuorinen, H. S., 2007, 2007. *Environmental History of Water - Global views on community water supply and sanitation*. IWA Publishing. Juuti P.S., K. T. S. & Vuorinen, H. S. (eds.). p. 3-8

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

### **Conclusions**

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

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

### **Conclusions**

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

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

### **Expanding rural water supplies in historical perspective: Six cases from Finland and South Africa**

Juuti, P. S., Katko, T. S., Mäki, H. R. & Toivio, H. K., 2007, *Environmental History of Water - Global views on community water supply and sanitation*. Juuti, P. S., Katko, T. S. & Vuorinen, H. S. (eds.). p. 355-380

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

### **Part III: Modern urban infrastructure. Introduction**

Juuti, P. S., Katko, T. S. & Vuorinen, H. S., 2007, *Environmental History of Water - Global views on community water supply and sanitation*. Juuti, P. S., Katko, T. S. & Vuorinen, H. S. (eds.). p. 265-269

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

### **Part I: Early systems and innovations. Ch 3 Introduction: Early cultures and water**

Juuti, P. S., Katko, T. S. & Vuorinen, H. S., 2007, 2007. *Environmental History of Water - Global views on community water supply and sanitation*. IWA Publishing. Juuti P.S., K. T. S. & Vuorinen, H. S. (eds.). p. 11-16

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

### **Part III: Modern Urban Infrastructure. Ch 20 Introduction**

Juuti, P. S., Katko, T. S. & Vuorinen, H. S., 2007, 2007. *Environmental History of Water - Global views on community water supply and sanitation*. IWA Publishing. Juuti P.S., K. T. S. & Vuorinen, H. S. (eds.). p. 265-270

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

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

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

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

### **Epilogue: Local Solutions Based on Local Conditions**

Juuti, P. S., Katko, T. S. & Vuorinen, H. S., 2007, 2007. *Environmental History of Water - Global views on community water supply and sanitation*. IWA Publishing. Juuti P.S., K. T. S. & Vuorinen, H. S. (eds.). p. 593-598

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

### **Birth and expansion of public water supply and sanitation in Finland until World War II**

Juuti, P. S. & Katko, T. S., 2007, *Environmental History of Water - Global views on community water supply and sanitation*. Juuti, P. S., Katko, T. S. & Vuorinen, H. S. (eds.). p. 117-130

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

### **Privatisation of water services in historical context, Mid-1800s to 2004**

Juuti, P. S., Katko, T. S. & Hukka, J. J., 2007, *Environmental History of Water - Global views on community water supply and sanitation*. Juuti, P. S., Katko, T. S. & Vuorinen, H. S. (eds.). p. 235-257

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

### **Conclusions**

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

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

### **Historical development of water and sanitation services**

Juuti, P. S. & Katko, T. S., 2005, *Water, Time and European Cities. History matters for the Futures*. Juuti, P. S. & Katko, T. S. (eds.). Tampere: Tampere University Press, p. 25-38

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

### **Comparative analysis and discussion**

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

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

### **Long-term strategic decisions in 13 countries and 29 cities**

Juuti, P. S. & Katko, T. S., 2005, *Water, Time and European Cities. History matters for the Futures*. Juuti, P. S. & Katko, T. S. (eds.). Tampere: Tampere University Press, p. 50-72

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

### **The role of inorganics in modelling of biomass gasification**

Kontinen, J., Kramb, J., DeMartini, N. & Gomez-Barea, A., 13 Jun 2017, *EUBCE 2017 Online Conference Proceedings*. Ek, L., Ernrooth, H., Scarlat, N., Grassi, A. & Helm, P. (eds.). ETA-Florence Renewable Energies, p. 443-447 5 p.

(European biomass conference and exhibition proceedings).

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

### **Modelling of seep through of humidity to electric connector with stochastic processes**

Ojala, P., Hietala, J-P., Miettinen, J., Julkunen, P. & Nieminen, I., 2017, *ESREL 2017. Safety and Reliability. Theory and Applications*. Cepin, M. & Bris, R. (eds.). CRC Press

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

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

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

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

### **Need of Services and Understanding of Service Providers in Water and Sanitation: A Case of Ethiopia**

Behailu, B. M. & Mattila, H., 2016, *Proceedings of the CIB World Building Congress 2016 Volume IV: Understanding impacts and functioning of different solutions*. Nenonen, S. & Junnonen, J-M. (eds.). Tampere University of Technology, p. 431-440 10 p.

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

### **The effects of improved energy efficiency on indoor environmental quality in multi-family buildings**

Du, L., Prasauskas, T., Leivo, V., Turunen, M., Kiviste, M., Martuzevicius, D. & Haverinen-Shaughnessy, U., 2016, *Indoor Air 2016: The 14th international conference of Indoor Air Quality and Climate Ghent, Belgium July 3-8 2016*. 737

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

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

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

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

**Institutional development is the key for sustainable water services in the built environment**

Katko, T. S. & Hukka, J. J., 2016, *Proceedings of the CIB World Building Congress 2016: Volume IV - Understanding impacts and functioning of different solutions*. Nenonen, S. & Junnonen, J-M. (eds.). Tampere: Tampere University of Technology. Department of Civil Engineering, p. 419-430 12 p.

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

**Learning for sustainable water and sanitation services**

Takala, A., 2016, *Proceedings of the 8th International Conference on Engineering Education for Sustainable Development (Bruges, 4-7 September 2016) : Building a circular economy together*. Mazijn, B. (ed.). Brugge: Instituut vóór Duu rzame Ontwikkeling vzw, p. 250-258 D.3.2

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

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

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

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

**Modelling of anisotropic fatigue**

Holopainen, S., Kouhia, R., Ottosen, N. S., Matti, R. & Saksala, T., 2016, *Contributions to the foundations of multidisciplinary research in mechanics: Papers presented during the 24th International Congress of Theoretical and Applied Mechanics ICTAM2016, Montreal, Canada, 21-26, Aug. 2016*. Floryan, J. M. (ed.). IUTAM, Vol. 3. p. 1822-1823 2 p.

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

**Development of an assessment protocol: the impact of energy retrofits on indoor environmental quality and public health in the existing building stock**

Du, L., Leivo, V., Kiviste, M., Martuzevicius, D., Turunen, M., Prasauskas, T. & Haverinen-Shaughnessy, U., May 2015, *Healthy Buildings 2015 Europe (HB 2015)*. International Society for Indoor Air Quality and Climate

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

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

Palmroth, M. R. T., Mönkäre, T. J. & Steffen, K. T., 2015, *Book of abstracts of the 6th European Bioremediation Conference*. Kalogerakis, N., Fava, F. & Manousaki, E. (eds.). p. 47 169

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

**Influence of Diffusion Barriers on Thermal Ageing Behaviour of Solar Absorber Coatings on Copper**

Kotilainen, M. & Vuoristo, P., 2015, *Surface Modification Technologies XXVIII: Tampere University of Technology Tampere, Finland June 16-18, 2014*. p. 481-491 11 p.

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

**Leveraging concepts for environmentally sustainable business management in construction - a focused review**

Huovinen, P., 2015, *CIB Proceedings 2015 : Going North for Sustainability: Leveraging Knowledge and Innovation for Sustainable Construction and Development*. Egbu, C. (ed.). London, UK: IBEA Publications Ltd, p. 286-296 11 p.

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

**Effect of Temperature on Fume Formation and Deposition in Kraft Recovery Boilers - a Modeling Approach**

Leppänen, A., Tran, H., Välimäki, E. & Oksanen, A., 2014, *2014 International Chemical Recovery Conference, Proceedings - Volume 2*. Nieminen, M. & Lampinen, P. (eds.). Suomen Soodakattilayhdistys, The Finnish Recovery Boiler Committee; TAPPI, p. 38-47 10 p.

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

#### **Examples of using the moodle virtual learning environment for teaching technical university students**

Korpinen, L., Gonzalez-Sosa, J. & Tepsa, K., 2012, *EDULEARN12 Proceedings, 4th International Conference on Education and New Learning Technologies, 2-4 July, 2012, Barcelona, Spain*. Gomez Chova, L., Candel Torres, I. & Lopez Martinez, A. (eds.). Barcelona: International Association of Technology, Education and Development IATED, p. 981-990 (International Conference on Education and New Learning Technologies).

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

#### **Measurers' Exposure to Extremely Low Frequency Magnetic Fields at 400 kV Substations**

Korpinen, L., Kuisti, H., Tarao, H. & Pääkkönen, R., 2012, *PIERS 2012 Moscow Proceedings, August 19-23, 2012, Moscow, Russia*. Electromagnetics Academy, p. 282-285 (Progress in Electromagnetics Research Symposium).

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

#### **The Possible Exposure of Children to Extremely Low Frequency Magnetic Fields in the Home**

Gobba, F., Pääkkönen, R., Tarao, H. & Korpinen, L., 2012, *PIERS 2012 Moscow Proceedings, August 19-23, 2012, Moscow, Russia*. Electromagnetics Academy, p. 286-288 (Progress in Electromagnetics Research Symposium).

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

#### **Occupational Exposure to Extremely Low Frequency Electric Fields in Office Work**

Pääkkönen, R., Tarao, H., Gobba, F. & Korpinen, L., 2012, *PIERS 2012 Moscow Proceedings, August 19-23, 2012, Moscow, Russia*. Electromagnetics Academy, p. 823-825 (Progress in Electromagnetics Research Symposium).

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

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

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

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

#### **Environmental impact of micropollutants present in urine**

Pynnönen, S. & Tuhkanen, T., 2012, *Dry Toilet Conference 2012, 4th International Dry Toilet Conference, Full Papers, 22-24 August 2012, Tampere, Finland*. Helsinki: Global Dry Toilet Association of Finland, p. 1-8 8 p. (International Dry Toilet Conference).

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

#### **Two Years after Donor Funding Ended: Success Factors for Schools to Keep their Urine-Diverting Dry Toilets (UDDTs) Clean and Well Maintained**

Pynnönen, K., Tuhkanen, T., Rieck, C. & von Munch, E., 2012, *Dry Toilet Conference 2012, 4th International Dry Toilet Conference, Full Papers, 22-24 August 2012, Tampere, Finland*. Helsinki: Global Dry Toilet Association of Finland, p. 1-10 10 p. (International Dry Toilet Conference).

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

#### **Examples to Reduce the EMF Generated by HV Power Transmission Lines of Different Design**

Okun, A. & Korpinen, L., 2012, *Proceedings - 7th International Workshop on Biological Effects of Electromagnetic Fields, 7th IWSBEEMF, 8 - 12 October 2012, Valletta, Malta*. Electromagnetic Research Group - EMRG (Malta); Department of Physics, University of Malta, (International Workshop on Biological Effects of Electromagnetic Fields).

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

#### **Effect of Tissue Conductivity on Internal Body Resistances of Numerical Human Model at Power Frequency**

Tarao, H., Hayashi, N., Korpinen, L., Gonzalez, J. A., Matsumoto, T. & Isaka, K., 2012, *The Bioelectromagnetics Society 34th Annual Meeting, June 17, 2012 - June 22, 2012, Brisbane, Australia*. The Bioelectromagnetics Society, p. 197-199 (The Bioelectromagnetics Society Annual Meeting).

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

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

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

### **Experiences of integrating MSc student research projects in the "electromagnetic fields and health" area**

Korpinen, L., Pääkkönen, R., Gonzalez-Sosa, J. & Gobba, F., 2012, *EDULEARN12 Proceedings, 4th International Conference on Education and New Learning Technologies, 2-4 July, 2012, Barcelona, Spain*. Gomez Chova, L., Candel Torres, I. & Lopez Martinez, A. (eds.). Barcelona: International Association of Technology, Education and Development IATED, p. 1007-1010 (International Conference on Education and New Learning Technologies).

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

### **Gender comparison - The university students' exam results in the environmental and energy area**

Pitkänen, A., Raiko, R. & Korpinen, L., 2012, *INTED 2012 Proceedings, 6th International Technology, Education and Development Conference, March 5th-7th, 2012, Valencia, Spain*. Gomez Chova, L., Lopez Martinez, A. & Candel Torres, I. (eds.). Spain: International Association of Technology, Education and Development IATED, p. 3299-3308 (International Technology, Education and Development Conference).

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

### **A comparison of occupational electric field exposures during working tasks at 400 kV and 110 kV substations**

Korpinen, L., Kuisti, H., Pääkkönen, R. & Gobba, F., 2012, *Proceedings - 7th International Workshop on Biological Effects of Electromagnetic Fields, 7th IWSBEEMF, 8 - 12 October 2012, Valletta, Malta*. Electromagnetic Research Group - EMRG (Malta); Department of Physics, University of Malta, (International Workshop on Biological Effects of Electromagnetic Fields).

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

### **Removal of odours in dry toilets by biofiltration**

Palmroth, M. R. T., Kolha, V. A., Ramos Garcia, A., Perrier, L., Richter, C. & Tuhkanen, T. A., 2012, *ECO STP, EcoTechnologies for Wastewater Treatment, Technical, Environmental & Economic Challenges, Santiago de Compostela, Spain, 25-27 June 2012*. International Water Association IWA, p. 1-4 4 p. (EcoTechnologies for Wastewater Treatment, IWA International Conference).

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

### **The experiences of technical university students on an "environmental health" course**

Gonzalez-Sosa, J. & Korpinen, L., 2012, *EDULEARN12 Proceedings, 4th International Conference on Education and New Learning Technologies, 2-4 July, 2012, Barcelona, Spain*. Gomez Chova, L., Candel Torres, I. & Lopez Martinez, A. (eds.). Barcelona: International Association of Technology, Education and Development IATED, p. 1586-1592 (International Conference on Education and New Learning Technologies).

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

### **Exposure to Extremely Low Frequency Magnetic Fields: a Personal Monitoring Study in a Large Group of Workers**

Gobba, F., Rossi, P., Contessa, G. M. & Korpinen, L., 2012, *II National Conference ICeMB 27.-29.6.2012, Bologna, Italy*. Genova: The Inter-university research Centre into Interactions between Electromagnetic fields and Biosystems ICeMB, p. 63-64 (National Conference ICeMB).

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

### **The technical students' feedback from the course issues on environmental health**

Korpinen, L., Lehtelä, R., Vesapuisto, M. & Vekara, T., 2011, *Proceedings of the 22nd EAEEIE Annual Conference - EAEEIE 2011, Maribor, Slovenia, June 13-15, 2011*. Maribor: University of Maribor, Faculty of Electrical Engineering and Computer Science, p. 119-123 (EAEEIE Annual Conference).

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

### **Calculation of Induced Electric Fields in Human Models Exposed to ELF Magnetic and Electric Fields**

Tarao, H., Hayashi, N., Korpinen, L., Matsumoto, T. & Isaka, K., 2011, *ISH 2011, 17th International Symposium on High Voltage Engineering, August 22-26, 2011, Hannover, Germany*. Gockenbach, E., Eichler, C., Mohsen, F., Fischer, M., Gratz, O., Pham, K. & Zhang, X. (eds.). Hannover: Leibnitz Universität Hannover, p. 44-44 (International Symposium on High Voltage Engineering ISH).

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

### **Study of Aerosols of Black Liquor Combustion**

Leppänen, A., Välimäki, E. & Oksanen, A., 2011, *11th International Conference on Energy for Clean Environment, 5-8 July 2011, Lisbon Portugal*. Lisbon: Clean Air conference series, p. 1-11 11 p. (International Conference on Energy for Clean

Environment).

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

#### **Reduction of combustion-generated emissions by means of multiobjective optimization and computational fluid dynamics**

Oksanen, A. & Saario, A. J., 2011, *CFD & Optimization 2011, Methods and Applications, ECCOMAS Thematic Conference, 23-25 May 2011, Antalya, Turkey*. Antalya: ECCOMAS, p. 1-17 17 p. (ECCOMAS Thematic Conference on CFD & Optimization, Methods and Applications).

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

#### **Modeling of Fine Particles and Alkali Metal Compounds in Kraft Recovery Boiler Furnace**

Leppänen, A., Välimäki, E. & Oksanen, A., 2011, *The 2011 TAPPI PEERS Conference, 2-5 October 2011, Oregon Convention Center in Portland, Oregon USA*. Norcross, GA: TAPPI, p. 1-8 8 p. (TAPPI PEERS Conference).

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

#### **Examples of occupational ELF electric and magnetic field exposure in Finland**

Alanko, T., Pääkkönen, R., Lahtinen, S. & Korpinen, L., 2011, *10th International Conference European Bioelectromagnetics Association, 21-24 February 2011, Rome, Italy*. Rome: European Bioelectromagnetics Association, p. 1-2 2 p. (International Conference European Bioelectromagnetics Association).

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

#### **Sustainability competencies of engineers in the field of water supply and sanitation**

Takala, A., 2011, *World Sustainable Building Conference SB11, October 18-21, 2011, Helsinki, Finland*. Helsinki: RIL - Finnish Association of Civil Engineers, p. 180-181 (World Sustainable Building Conference SB11; vol. 2).

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

#### **The doors of operating devices mitigation influence to the electric field exposure at 110kV substation tasks on service platforms**

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

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

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

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

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

#### **CFD Based Modelling for Predicting Fouling and Corrosion in Kraft Recovery Boilers**

Leppänen, A., Välimäki, E. & Oksanen, A., 2011, *19th European Biomass Conference and Exhibition, 6-10 June 2011, Berlin Germany*. Berlin: European Biomass Conference and Exhibition, p. 1033-1040 (European Biomass Conference and Exhibition).

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

#### **Developing and testing characterization methods for droplet compustion - part II**

Pääkkönen, A., Pitkänen, A., Mäkiranta, R., Saario, A. & Oksanen, A., 2011, *9th European Conference on Industrial Furnaces and Boilers, Estoril, Portugal, 26-29 April, 2011*. Estoril: INFUB, p. 1-10 10 p. (European Conference on Industrial Furnaces and Boilers).

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

#### **Adjustable hydrophilicity and hydrophobicity on paperboard by liquid flame spray process**

Stepien, M., Saarinen, J. J., Teisala, H., Tuominen, M., Aromaa, M., Kuusipalo, J., Mäkelä, J. & Toivakka, M., 2010, *2010 TAPPI Advanced Coating Fundamentals Symposium, October 11-13, 2010, Munich, Germany*. p. 6 p

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

#### **Exposure to electric and magnetic fields at 110 kV substation while performing the task 'Changing a bulb from a man hoist' in the Tampere region**

Pääkkönen, R., Holm, A. & Korpinen, L., 2010, *Bioelectromagnetics Society 32nd Annual Meeting (BEMS), June 14-18, 2010, Seoul, Korea*. p. 1-2 2 p.

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

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

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

Lepistö, K. & Korpinen, L., 2010, *ReflekTori 2010 Tekniikan opetuksen symposium 9.-10.2010, Espoo. Dipoli-raportit B*. Myller, E. (ed.). p. 136-138

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

#### **An example of exposure to magnetic fields in the home**

Österholm, L., Pääkkönen, R., Lehtelä, R., Holm, A. & Korpinen, L., 2010, *Bioelectromagnetics Society 32nd Annual Meeting (BEMS), June 14-18, 2010, Seoul, Korea*. p. 1-2 2 p.

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

#### **Forgotten infrastructure - In the quest for development, sustainability and security**

Hukka, J. J., Katko, T. S., Pietilä, P. E., Seppälä, O. T. & Vinnari, E. M., 2010, *Proceedings of the Conference on Security in Futures - Security in Change, 3-4 June 2010, Turku, Finland. FFRC eBook*. Auffermann, B. & Kaskinen, J. (eds.). p. 318-325

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

#### **Perfusion characterization using flow simulations and $\mu$ PIV measurements**

Kreutzer, J., Honkanen, M., Laaksonen, J. & Kallio, P., 2010, *Proceedings of the 2nd European Conference on Microfluidics - Microfluidics 2010, Toulouse, December 8-10, 2010*. p. 1-9 9 p.

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

#### **Requirements for rainfall retention and storage in cold climate**

Inha, L., Paavilainen, P., Pietilä, P. & Katko, T., 2010, *Conference Proceedings. IWRM Integrated Water Resources Management, 24-25 November 2010, Karlsruhe*. Steusloff, H. (ed.). p. 343-349

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

#### **Long-term measurement of free time exposure to low frequency magnetic fields in Finland**

Holm, A. & Korpinen, L., 2010, *Bioelectromagnetics Society 32nd Annual Meeting (BEMS), June 14-18, 2010, Seoul, Korea*. p. 1-2 2 p.

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

#### **Geometry of plate fins for maximizing heat transfer**

Karvinen, R. & Karvinen, T., 2010, *14th International Heat Transfer Conference IHTC-14, August 8-13, 2010, Washington DC, USA*. ASME, p. 1-10 10 p.

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

#### **Influence of atmospheric plasma treatment on surface properties and inkjet printability of plastic packaging film**

Lahti, J., Eiroma, K., Tenhunen, T.-M., Pykönen, M. & Toivakka, M., 2010, *Iarigai 2010 Montreal, Advances in Printing and Media Technology, Montreal, Canada, September 12-15, 2010*. p. 1-7 7 p.

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

#### **Use of analytical expressions of convection in conjugated heat transfer problems**

Karvinen, R., 2010, *Proceedings of the International Heat Transfer IHTC-14, August 8-13, 2010, Washington DC, USA*. ASME, p. 1-13 13 p.

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

#### **Atmospheric plasma enhanced hybrid barrier films through reel-to-reel process**

Nikkola, J., Mannila, J., Vartiainen, J., Tuominen, M. & Nättinen, K., 2010, *ICNP-2010, Second International Conference on Natural Polymers, Bio-Polymers, Bio-Materials, their Composites, Blends, IPNs and Gels Polyelectrolytes and Gels: Macro to Nano Scales, September 24-26, 2010, Espoo, Finland*. p. 1-11 11 p.

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

### **Managing water and sewerage services in a cold, four-seasons climate**

Hukka, J. J., Katko, T. S., Pietilä, P. E. & Vinnari, E., 2007, *Proceedings of the 8th ISCORD Symposium, Tampere, Finland, September 25-27, 2007*. p. 17-18

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

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

Juuti, P. S., Katko, T. S. & Vuorinen, H. S., 2006, *Symposium Preprint Book: 1st IWA International Symposium on Water and Wastewater Technologies in Ancient Civilizations, Iraklio, Greece, 27.10.2006*. p. 631-636

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

### **Book Review: Time for Customer Orientation in Water Utilities Customer experience management for water utilities. Marketing urban water supply**

Katko, T. S. & Rajala, R. P., 2019, In : *Public Works Management & Policy*. 24, 2, p. 228-230

Research output: Contribution to journal › Literature review › Scientific

### **Editorial**

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

Research output: Contribution to journal › Editorial › Scientific

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

Translated title of the contribution: : Book review: Universities to be buried under bureaucracy.

Katko, T. S., Jun 2018, In : *Tiedepolitiikka*. 43, 1, p. 58-60 3 p.

Research output: Contribution to journal › Article › Scientific

### **Water Services Development and Governance in Finland. Feature Article. JAWWA. 110, 5: 50-55.**

Katko, T. S., May 2018, In : *Journal American Water Works Association*. 110, 5, p. 50-55 6 p.

Research output: Contribution to journal › Article › Scientific

### **Finland's Water Services: Looking to its Past to Figure Out its Future.**

Katko, T. S., Mar 2018, In : *Water and Wastewater International*.

Research output: Contribution to journal › Article › Scientific

### **Kirja-arviointi: Kuinka vesiensuojelu saatiin pääosin kuntoon?**

Translated title of the contribution: : Book review: How modern water pollution control was achieved?: For the sake of waters. Phases of Finnish water pollution control

Katko, T. S., 2017, In : *Vesitalous*. 58, 4, p. 46-47 2 p.

Research output: Contribution to journal › Article › Scientific

### **Energistä utopiaa?**

Sorri, J., 2017, In : *Futura*. 36, 1, p. 38-39 2 p.

Research output: Contribution to journal › Book/Film/Article review › Scientific

### **Editorial to "The best papers from the 32nd International Symposium on Automation and Robotics in Construction and Mining (ISARC 2015)"**

Malaska, M. & Heikkilä, R., 1 Nov 2016, In : *Automation in Construction*. 71, p. 1 1 p.

Research output: Contribution to journal › Editorial › Scientific

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

Translated title of the contribution: : Vieraskynä : Vesialan osaamista kehitettävä yhteiskunnan tarpeista

Katko, T. S., 2014, In : *Vesitalous*. 1/2014, p. 51-51 1 p.

Research output: Contribution to journal › Article › Scientific

**Book review : Oestigaard, T. 2013. Water, Christianity and the rise of capitalism. London, New York: I.B. Tauris. ISBN 978-1-78076-066-7, 209 pages**

Katko, T. S., 2014, In : Water Alternatives. 7, 1, p. 273-274 2 p.

Research output: Contribution to journal › Article › Scientific

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

Translated title of the contribution: : Kuka päättää vesihuollon tulevaisuudesta? (Who decides on the future of the water supply?)

Rajala, R., Juuti, P. & Katko, T., 2014, In : Vesitalous. 51, 1, p. 33-34 2 p.

Research output: Contribution to journal › Article › Scientific

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

Translated title of the contribution: : Pääkirjoitus : Vesihuoltolaitosten historiat imagon nostajana / Editorial : Relevance of history for current water services management and governance

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

Research output: Contribution to journal › Article › Scientific

#### **Tulevaisuuden vesiosaajat**

Translated title of the contribution: : Tulevaisuuden vesiosaajat

Takala, A., Heinonen, U., Innala, T., Lundgren, K., Mattila, H., Vahala, R. & Vuola, S., 2012, In : Vesitalous. 53, 3, p. 6-7

Research output: Contribution to journal › Article › Scientific

#### **Lyhyestä tiede kaunis?**

Translated title of the contribution: : Lyhyestä tiede kaunis?

Katko, T., 2011, In : Tiedepolitiikka. 36, 2, p. 55-55

Research output: Contribution to journal › Article › Scientific

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

Translated title of the contribution: : Pääkirjoitus. Veden keskeinen merkitys yhteiskunnassa ja yhdyskunnissa

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

Research output: Contribution to journal › Article › Scientific

#### **Editorial. Central role of water in society and community**

Katko, T., 2011, In : Ympäristöhistoria: Finnish Journal of Environmental History. 1, 2, p. 8-11

Research output: Contribution to journal › Article › Scientific

#### **Editorial Note: "Pasts and Futures of Water"**

Juuti, P. S., Katko, T. S. & Vinnari, E. M., 2010, In : Environment and History. 16, a, p. 167-171

Research output: Contribution to journal › Article › Scientific

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

Lahti, J. & Tuominen, M., 2010, In : Packaging Professional (The Magazine of the Packaging Society). 33, 5, p. 7-7

Research output: Contribution to journal › Article › Scientific

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

Lahti, J. & Tuominen, M., 2010, In : Materials World. 18, 10, p. 15-15

Research output: Contribution to journal › Article › Scientific

#### **Book Review: Graham, S. (Ed.), Disrupted Cities: When Infrastructure Fails**

Katko, T., 2010, In : Public Works Management & Policy, Vol. 14, Nr 4, April 2010.

Research output: Contribution to journal › Article › Scientific

#### **Foreword Towards More Resilient Water Services**

Katko, T. S., Sep 2019, *Resilient water services and systems: the foundation of well-being*. Juuti, P., Mattila, H., Rajala, R., Schwartz, K. & Staddon, C. (eds.). IWA Publishing, p. 9-13 5 p.

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

#### **The Mermaid of Helsinki, Finland**

Hynynen, A. J., Juuti, P. S. & Katko, T. S., 2012, *Water Fountains in the Worldscape*. Ari, J. H., Petri, S. J. & Tapio, S. K. (eds.). Kangasala: International Water History Association and Kehrämedia Inc., p. 107-111 5 p.

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

#### **Part V: Comparative Analysis of the Omnipresent Water Fountains**

Hynynen, A. J., Juuti, P. S. & Katko, T. S., 2012, *Water Fountains in the Worldscape*. Ari, J. H., Petri, S. J. & Tapio, S. K. (eds.). Kangasala: International Water History Association and Kehrämedia Inc., p. 137-212

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

#### **"Rocky Fountains" of Keciören, Turkey**

Translated title of the contribution : "Rocky Fountains" of Keciören, Turkey

Katko, T. S., 2012, *Water Fountains in the Worldscape*. Ari, J. H., Petri, S. J. & Tapio, S. K. (eds.). Kangasala: International Water History Association and KehräMedia, p. 128-131

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

#### **The Fountain A Harbinger of a New Era in Case Tampere**

Hynynen, A., Juuti, P. & Katko, T., 2011, *Water Fountains in the Cityscape. Essays in Public Works History*. Hynynen, A. J., Juuti, P. S. & Katko, T. S. (eds.). Kansas City, MO: Public Works Historical Society, p. 63-70 (Essays in Public Works History; vol. 30).

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

#### **Values and Attitudes in Engineering Education**

Korhonen-Yrjänheikki, K., Takala, A. & Mielityinen, I., 2011, *It's just People with People - Views of Corporate Social Responsibility. Aalto University Publication Series Crossover*. Lappalainen, P. (ed.). p. 65-83

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

#### **A method for design of sound insulation of glazed balconies against traffic noise**

Kovalainen, V., Kylliäinen, M. & Huhtala, T., Aug 2016, *Proceedings of the INTER-NOISE 2016, 45th International Congress and Exposition on Noise Control Engineering : Towards a Quieter Future, August 21-24, 2016, Hamburg, Germany*. Hamburg: German Acoustical Society (DEGA), p. 3834-3841 8 p. 503

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

#### **A laboratory listening experiment on subjective and objective rating of impact sound insulation of concrete floors**

Kylliäinen, M., Hongisto, V., Oliva, D. & Rekola, L., Aug 2016, *Proceedings of the INTER-NOISE 2016, 45th International Congress on Noise Control Engineering : Towards a Quieter Future, August 21-24, 2016, Hamburg, Germany*. Hamburg: German Acoustical Society (DEGA), p. 894-902 9 p. 193

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

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

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

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

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

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

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

#### **Metering the quality of water supply and sewage network maintenance services**

Välisalo, T., Heino, O. & Luomanen, T., 2012, *2012 IFME World Congress on Municipal Engineering. Sustainable Communities, June 4-10, Helsinki, Finland*. International Federation of Municipal Engineering IFME, p. 1-9 9 p.

(International Federation of Municipal Engineering World Congress).

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

#### **Career paths of experts on water supply and sanitation services**

Takala, A. J., 2012, *YWPC2012, 6th IWA International Conference for Young Water Professionals, (IWA YWPC 2012), 10-13 July 2012, Budapest, Hungary. Conference Proceedings*. IWA, International Water Association; Hungarian Water Utility Association, p. 1-6 6 p. IWA-9929. (International YWP Conference).

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

#### **The factors controlling combustion and gasification kinetics of solid fuels**

Tolvanen, H., Kokko, L. & Raiko, R., 2011, *Swedish-Finnish Flame Days, "Challenges in Combustion Technology today", January 26-27, 2011, Sweden*. Piteå: IFRF and the Scandinavian-Nordic Section of the Combustion Institute, p. 1-14 14 p. (Swedish-Finnish Flame Days).

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

#### **Significance of Wild Cards and Weak Signals for Sustainability : Case of Water Services**

Heino, O. A. & Takala, A. J., 2011, *Trends and Future of Sustainable Development, Proceedings of the Conference "Trends and Future of Sustainable Development", 9 - 10 June 2011, Tampere, Finland*. Lakkala, H. & Vehmas, J. (eds.). Finland Futures Research Centre, University of Turku, p. 410-422 15. (FFRC eBook).

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

#### **Finnish engineering education for the benefit of people and environment**

Takala, A. & Korhonen-Yrjänheikki, K., 2010, *International Conference Engineering Education in Sustainable Development, EESD '10, 19-22 September 2010, Gothenburg, Sweden*. p. 1-10 10 p.

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

#### **Unsteady computational methods to study jet behaviour in large fluidized bed boiler**

Tiitinen, K., Ylitalo, M. & Oksanen, A., 2010, *AFRC 2010 Pacific Rim Combustion Symposium, September 26-29, 2010 Sheraton Maui, Hawaii*. p. 1-22 22 p.

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

#### **Experimental study of oxy-fuel combustion in a drop tube reactor**

Rodriguez, A. M. & Raiko, R., 2010, *AFRC 2010 Pacific Rim Combustion Symposium, September 26-29, 2010 Sheraton Maui, Hawaii*. p. 1-11 11 p.

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

#### **Rural household electricity load profiles with a load simulation tool**

Poudyal, A., Mustonen, S. & Paatero, J., 2010, *International Conference on Applied Energy (ICAE 2010), Energy Solutions for a Sustainable World, 21-23 April 2010, Singapore*. p. 1358-1366

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

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

Nättinen, K., Nikkola, J., Mannila, J., Vartiainen, J., Tuominen, M. & Lavonen, J., 2009, *Coatings for Plastics at NPE 2009, June 23-24, 2009, McCormick Place, Chicago, IL*. p. 8 p

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

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

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

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

#### **Rural electrification of remote areas - Case studies of two renewable energy projects in Laos and The Philippines**

Mustonen, S., 2008, *International Conference on Environment 2008 (ICENV 2008), 15-17 December, 2008, Penang, Malaysia*. p. 8 p

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

### **Modeling of autonomous power systems - A mathematical model of a hybrid power system**

Mustonen, S. & Nanthavong, K., 2006, *Proceedings of the 2nd Joint International Conference on "Sustainable Energy and Environment (SEE 2006)" 21-23 November, 2006, Bangkok, Thailand*. p. 6 p

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

### **Full scale landfill bottom liner test structures at Ämmässuo landfill, Espoo, Finland**

Leppänen, M., Kaartokallio, A. & Loukola, E., Oct 1999, *Sardinia 99, Seventh International Waste Management and Landfill Symposium, 4-8 October, S. Margherita di Pula, Cagliari, Sardinia, Italy. Proceedings, Vol. I-V*. Christensen, T. H., Cossu, R. & Stegmann, R. (eds.). Vol. III. p. 173-180 8 p.

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

### **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

Juuti, P., 2017, Tampere University Press. 280 p.

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

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

Katko, T. S., 4 Nov 2016, Helsinki: Finnish Water Utilities Association. 288 p.

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

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

Translated title of the contribution: : Hanaa! : Suomen vesihuolto - kehitys ja yhteiskunnallinen merkitys

Katko, T. S., 2013, Helsinki: Suomen Vesilaitosyhdistys ry. 501 p.

Research output: Book/Report > Book > 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. P., Pietilä, P. E. & Katko, T. S., 2010, Riihimäen Vesi. 336 p.

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

### **Näkymätönt Porri. Porin veden historia**

Translated title of the contribution: : Näkymätönt Porri. Porin veden historia

Juuti, P. S., Katko, T. S., Louekari, S. M. & Rajala, R. P., 2010, Pori: Porin Vesi.

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

### **Metropoli ja meri. 100 vuotta jätevedenpuhdistusta Helsingissä**

Translated title of the contribution: : Metropoli ja meri. 100 vuotta jätevedenpuhdistusta Helsingissä

Juuti, P., Rajala, R. & Katko, T., 2010, Helsinki: HSY Helsingin seudun ympäristöpalvelut. 158 p. (HSY:n julkaisuja; vol. 6/2010)

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

### **Yhteistä vettä: Tuusulan seudun vesilaitos kuntayhtymä 1967-2007**

Katko, T. S., 2007, Tuusulan seudun vesilaitos kuntayhtymä . 185 p.

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

### **Resilient Water Services and Systems: The Foundation of Well-Being**

Juuti, P. (ed.), Mattila, H. (ed.), Rajala, R. (ed.), Schwartz, K. (ed.) & Staddon, C. (ed.), 2019, IWA Publishing.

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

### **Prologue**

Juuti, P. S. (ed.), Katko, T. S. (ed.) & Schwartz, K. (ed.), 2013, IWA Publishing. 3 p.  
Research output: Book/Report > Anthology > Scientific > peer-review

### **Epilogue**

Juuti, P. S. (ed.), Katko, T. S. (ed.) & Schwartz, K. (ed.), 2013, IWA Publishing. 5 p.  
Research output: Book/Report > Anthology > Scientific > peer-review

### **FSES 2013, Finnish Conference of Environmental Sciences, 2-3 May 2013, Tampere, Finland. Proceedings**

Pynnönen, S. (ed.) & Tuhkanen, T. (ed.), 2013, Tampere: Tampere University of Technology. 156 p.  
Research output: Book/Report > Anthology > Scientific > peer-review

### **Water Fountains in the Worldscape**

Hynynen, A. J. (ed.), Juuti, P. S. (ed.) & Katko, T. S. (ed.), 2012, Kangasala: International Water History Association and Kehrämedia Inc.  
Research output: Book/Report > Anthology > Scientific > peer-review

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

Hynynen, A. J. (ed.), Juuti, P. S. (ed.) & Katko, T. S. (ed.), 2011, Kansas City, MO: Public Works Historical Society. (Essays in Public Works History; vol. 30)  
Research output: Book/Report > Anthology > Scientific > peer-review

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

### **Environmental history of water : global views on community water supply and sanitation**

Juuti, P. S. (ed.), Katko, T. S. (ed.) & Vuorinen, H. S. (ed.), 2007, London: IWA Publishing.  
Research output: Book/Report > Anthology > Scientific > peer-review

### **5th IWHA Conference. Tampere Finland 2007. Pasts and Futures of Water. University of Tampere 13-17 June 2007**

Hautamäki, I. (ed.), Juuti, P. (ed.), Katko, T. (ed.), Rajala, R. (ed.) & Vinnari, E. (ed.), 2007, Unknown Publisher.  
Research output: Book/Report > Anthology > Scientific > peer-review

### **Water, Time and European Cities : History matters for the Futures**

Juuti, P. S. (ed.) & Katko, T. S. (ed.), 2005, Tampere: Tampere University Press.  
Research output: Book/Report > Anthology > Scientific > peer-review

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

Translated title of the contribution: : Education and research driving development  
Hukka, J., Katko, T. S. & Pietilä, P., Dec 2019, In : Econetin asiakaslehti AQ. 3, p. 13 1 p.  
Research output: Contribution to journal > Article > Professional

### **Vetoa vesihuoltopalveluihin täydennyskoulutuksen kautta**

Translated title of the contribution: : Continuing education empowering water services development  
Inha, L., Juuti, P., Katko, T. S., Rajala, R. & Pietilä, P., 25 Oct 2019, In : Kuntatekniikka. 73, 5, p. 6-7 2 p.  
Research output: Contribution to journal > Article > Professional

### **Vesihuollon koulutus ja tutkimus lähemmäksi rakennettua ympäristöä**

Translated title of the contribution: : Water services education and research closer to the built environment  
Katko, T. S., Aug 2019, In : Vesitalous. 60, 4, p. 24-25 2 p.  
Research output: Contribution to journal > Article > Professional

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

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

Inha, L., Katko, T. S. & Rajala, R., Jun 2019, In : Rakennustekniikka. 75, 3, p. 38-40 3 p.

Research output: Contribution to journal › Article › Professional

### **Vesihuolto yhdyskuntien ympäristön turvaajana: uskomuksia ja todellisuuksia**

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

Katko, T. S., Inha, L. & Rajala, R., May 2019, In : Ympäristökasvatus. 2

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

### **Vesihuoltopalvelujen tutkimus-, kehittämis- ja innovaatioklusterin (VEPATUKI) ensimmäinen vuosi keskittyy saneeraustarpeeseen**

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

### **Toimiva vesihuolto ei ole itsestäänselvyys.**

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

Katko, T. S., Apr 2017, In : Promaint. 29, 2, p. 17 1 p.

Research output: Contribution to journal › Article › Professional

### **Vesihuollon strateginen kehittäminen haltuun: Ydin- ja tukitoiminnon tarpeen hahmottaa selkeästi**

Translated title of the contribution: : Water services to be developed strategically: Recognizing the core and non-core activities of water services

Katko, T. S. & Hukka, J. J., 2016, In : Kuntatekniikka. 70, 2, p. 12-13 2 p.

Research output: Contribution to journal › Article › Professional

### **Vesiosuuskunnat - minä ne tulisi nähdä?**

Heino, O., 2015, In : Osuustoiminta. 106, 2, p. 51-51 1 p.

Research output: Contribution to journal › Article › Professional

### **Simulointi nopeuttaa käyttöiän määrittämistä**

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

### **Tampereelta valmistuneiden vesihuoltoalan diplomi-insinöörien sijoittuminen ja odotukset yliopisto-opetukselle**

Katko, T. S., Lukka, A. & Rajala, R., 2015, In : Vesitalous. 2, p. 45-47 3 p.

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**

Translated title of the contribution: : Heikot signaalit vesihuollossa

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

Research output: Contribution to journal › Article › Professional

### **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**

Translated title of the contribution: : Dags att syna utmaningarna inom vattenförsörjningen

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**

Translated title of the contribution: : Vesihuolto osana näkymätöntä kaupunkia

Katko, T. S., 2013, In : RY Rakennettu ympäristö. 50, 5, p. 18-21 4 p.

Research output: Contribution to journal › Article › Professional

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

Jaatinen, T. T. O., Katko, T. S., Pynnönen, S. T. & Vihanta, J. S., 14 Sep 2012, In : Ympäristöhistoria: Finnish Journal of Environmental History. 3, p. 10-32

Research output: Contribution to journal › Article › Professional

### **Testattua tahdistusta**

Translated title of the contribution: : Testattua tahdistusta

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**

Translated title of the contribution: : Vesihuollon historian lyhyt oppimäärä

Katko, T. S., 2012, In : Econetin asiakaslehti AQ. 3, p. 22-22

Research output: Contribution to journal › Article › Professional

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

Translated title of the contribution: : KUPERA-kaupunkien teknisen sektorin johto kaipaa toimintakulttuuriin muutosta : Haasteista innovatiivisiin mahdollisuuksiin

Leponiemi, U. & Heino, O., 2011, In : Kuntatekniikka. 7, p. 51-52

Research output: Contribution to journal › Article › Professional

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

Hukka, J. J., Katko, T. S. & Pietilä, P. P., 2011, In : Rakennustekniikka. 66, 2, p. 58-61

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**

Translated title of the contribution: : Vesihuollon ylikunnalliset sopimukset lisääntymässä

Kurki, V., 2010, In : Kuntatekniikka. 2, p. 18-18

Research output: Contribution to journal › Article › Professional

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

Translated title of the contribution: : TTY:ssä panostetaan pakkausalaan

Kuusipalo, J. & Lahti, J., 2010, In : Pakkaus. 5, p. 35-35

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

Katko, T. S., 2010, In : Kuntatekniikka. 8, p. 44-47

Research output: Contribution to journal › Article › Professional

### **Missä, missä se kaivo on?**

Katko, T., 2009, In : Vesimittari, HS-Veden asiakaslehti. 1, p. s. 8

Research output: Contribution to journal › Article › Professional

### **Hätä ei häviä käymälöitä poistamalla**

Juuti, P. S. & Katko, T. S., 2005, In : www.huussi.net. p. 7 s

Research output: Contribution to journal › Article › Professional

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

Translated title of the contribution: : From stop-go science and education policy towards wider points of view

Katko, T. S. & Hukka, J. J., Oct 2017, *Koulutuksen ja tutkimuksen murros yliopistoissa uuden vuosikymmenen kynnyksellä*. Juuti, P. & Uusi-Rasi, K. (eds.). Tampere: Tampereen dosenttiyhdistys, p. 32-39 8 p. (Tampereen dosenttiyhdistyksen julkaisuja).

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

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

Juuti, P., 2017, *Koulutuksen ja tutkimuksen murros yliopistoissa uuden vuosikymmenen kynnyksellä*. Juuti, P. & Uusi-Rasi, K. (eds.). Tampereen dosenttiyhdistys, Vol. 3. p. 44-48 4 p.

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

### **Liite 6: Yleistä kaivannaisjätealueista ja patoturvallisuudesta**

Leppänen, M., Välisalo, T. (ed.) & Laasonen, J., 2014, *Kaivosten stressitesti 2013*. Ympäristöministeriö, (Ympäristöministeriön raportteja).

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

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

Translated title of the contribution: : Experimental study on the effects of smouldering combustion of organic content in chimney penetration insulation on fire safety

Leppänen, P. & Malaska, M., 29 Aug 2017, *Pelastustieto: Palotutkimuksen päivät 2017, erikoisnumero*. Palo- ja pelastustieto ry, p. 15-20 6 p. (Pelastustieto).

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

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

Kerokoski, O., Rantala, T. & Nurmikolu, A., 31 May 2016, *WCRR 2016 Proceedings: 11th World congress on railway research, 29.5-2.6.2016, Milano*.

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

### **Dry Toilet Sanitation as an Alternative Solution to the Rural Ethiopia**

Behailu, B. M., Aug 2015, *Dry Toilet 2015: 5th International Dry Toilet Conference*. 7 p.

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

### **Are Finns walking the talk?: Examining the national collaboration process on engineering education for sustainable development five years later**

Takala, A. & Korhonen-Yrjänheikki, K., 1 Jun 2015, *Conference on Engineering Education for Sustainable Development (7th : 2015 : Vancouver, B.C.)*.

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

### **Test in scala reale su argille sensibili: l'esperienza finlandese**

Translated title of the contribution: : Full-scale failure test on sensitive clays: the Finnish experience

D'Ignazio, M., May 2015, *5 IAGIG, Incontro Annuale dei Giovani Ingegneri Geotecnici*. Rome

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

### **Erosion testing of filled and/or reinforced vinyl ester composites in water medium at elevated temperature**

Siljander, S., Kiviniemi, M., Sarlin, E., Lindgren, M., Suihkonen, R. & Vuorinen, J., 2015, *Proceedings of the 20th International Conference on Composite Materials*. 10 p.

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

### **Factors affecting the elimination capacity of a passive methane biofilter**

Maanoja, S. & Rintala, J., 2015, *BioTechniques Ghent 2015 The 6th international conference on biotechniques for air pollution control: Conference Proceedings*. p. 83-88 6 p.

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

**A study of a condensing heat exchanger and electrostatic precipitator combination for small-scale wood combustion**  
Grigonyte, J., Sippula, O., Tissari, J., Laitinen, A., Keskinen, J., Kortelainen, M., Lamberg, H. & Jokiniemi, J., 2015, *European Aerosol Conference 2015: EAC 2015, Milan, Italy*. 2COA\_P021

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

**L'oxydation chimique pour la remediation des sols contamines par des composes recalcitrants. Cas de la chlordecone**  
Translated title of the contribution: : L'oxydation chimique pour la remediation des sols contamines par des composes recalcitrants. Cas de la chlordecone

Tuhkanen, T., 2011, *Remediation a la pollution par la chlordecone aux Antilles, No 9-10, Avril 2011*. Le Lamentin, p. 8-11 (Les Cahiers du PRAM).

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

**Merkittävimmät päästövähennystoimet ilmastonmuutoksen hillitsemiseksi**

Auvinen, K., Maanavilja, L., Seppälä, J., Sankelo, P., Mäkinen, J., Sarkkola, S., Helonheimo, T., Saikku, L., Lounasheimo, J. & Riekkinen, V., 15 May 2020, Suomen ympäristökeskus (SYKE). 4 p.

Research output: Book/Report › Commissioned report › Professional

**Autolaskurin käyttöopas ja laskennan perusteet**

Seppälä, J., Munther, J., Viri, R., Liimatainen, H., Weaver, S. & Ollikainen, M., 13 Dec 2019, 2019 ed. Suomen ilmastopaneeli.

Research output: Book/Report › Commissioned report › Professional

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

Seppälä, J., Munther, J., Viri, R., Liimatainen, H., Weaver, S. & Ollikainen, M., 13 Dec 2019, Suomen ilmastopaneeli.

Research output: Book/Report › Commissioned report › Professional

**Joukkoliikenteellä on tärkeä rooli liikenteen päästöjen vähentämisessä**

Mäkinen, J. & Mela, H., 28 Nov 2019, Helsinki: Suomen ympäristökeskus (SYKE). 4 p.

Research output: Book/Report › Commissioned report › Professional

**Vaihtoehtoisten käyttövoimien hyödyntäminen kaupunkiliikenteen linja-autoissa**

Judl, J. & Mäkinen, J., 28 Nov 2019, Suomen ympäristökeskus (SYKE). 4 p.

Research output: Book/Report › Commissioned report › Professional

**Utilising alternative fuels and technologies in city buses**

Judl, J. & Mäkinen, J., 28 Nov 2019, Suomen ympäristökeskus (SYKE). 4 p.

Research output: Book/Report › Commissioned report › Professional

**Sähköautoilun edistäminen vaatii latausmahdollisuuksien kehittämistä**

Liimatainen, H., Utriainen, R. & Viri, R., 29 Aug 2018, Suomen ilmastopaneeli. 7 p.

Research output: Book/Report › Commissioned report › Professional

**Puurakenteiden uudelleenkäyttömahdollisuudet**

Translated title of the contribution: : Reuse possibilities of timber structures

Huuhka, S., Köliö, A., Annala, P. & Poti, A., Jan 2018, Tampere: Tampere University of Technology. 63 p. (Muuttuva rakennettu ympäristö; no. 4)(Rakennetekniikka. Tutkimusraportti.; no. 165)

Research output: Book/Report › Commissioned report › Professional

**Reducing CO2 emissions from freight: Recent developments in freight transport in the Nordic countries and instruments for CO2 reductions**

Pinchasik, D., Hovi, I. B., Vierth, I., Mellin, A., Liimatainen, H. & Kristensen, N., 2018, NORDIC COUNCIL OF MINISTERS . 129 p. (Temanord)

Research output: Book/Report › Commissioned report › Professional

**Liikenteen päästötavoitteiden saavuttaminen 2030 - politiikkatoimenpiteiden tarkastelu**

Liimatainen, H. & Viri, R., 30 May 2017, Suomen ilmastopaneeli.

Research output: Book/Report › Commissioned report › Professional

**Rakennusten energiankulutuksen perusskenaario Suomessa 2015-2050**

Translated title of the contribution: : Basic scenario of the energy consumption of building stock in Finland 2015-2050  
Mattinen, M., Heljo, J. & Savolahti, M., 13 Sep 2016, Helsinki: Suomen ympäristökeskus. 66 p. (Suomen ympäristökeskuksen raportteja; no. 35/2016)

Research output: Book/Report › Commissioned report › Professional

**Ravinnevisio: Selvitys Pirkanmaan puhdistamolietteiden ja biojätteiden ravinteista ja niiden potentiaalisesta käytöstä**

Mönkäre, T., Kinnunen, V., Tampio, E., Ervasti, S., Lehtonen, E., Kettunen, R., Rasi, S. & Rintala, J., Jun 2016, Pirkanmaan ELY-keskus. 56 p. (Raportteja; no. 74)

Research output: Book/Report › Commissioned report › Professional