

**Pohjoismaiden energiapolitiikka 2030: Hiilineutraalimpaan energiajärjestelmään osin yhdessä, osin eri polkuja pitkin**  
Aalto, P., Harsia, P., Heljo, V., Holttinen, H., Jaakkola, I., Järventausta, P., Kirkinen, J., Kojo, M., Kontinen, J., Oksa, A. M., Rönkkö, T., Sorri, J. & Toivanen, P., 2016, 23 p. (EL-TRAN analyysi; vol. 4/2016).  
Research output: Working paper > Discussion paper > Professional

**Denitrifying microbial communities along a boreal stream with varying land-use**  
Aalto, S. L., Saarenheimo, J., Arvola, L., Tiirola, M., Huotari, J. & Rissanen, A. J., 24 Jul 2019, In : *Aquatic Sciences*. 81, 59  
Research output: Contribution to journal > Article > Scientific > peer-review

**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

**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

**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

**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

**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

**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

**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

**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

**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

### **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

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

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

### **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

### **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

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

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

### **Rural Water and Sanitation: Community Managed Project Approach for Sustainability in Ethiopia**

Behailu, B. M., 30 Nov 2016, Tampere University of Technology. 77 p. (Tampere University of Technology. Publication; vol. 1435)

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

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

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### **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

### **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

### **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

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

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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

**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

**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

**Biovalorisation of liquid and gaseous effluents of oil refinery and petrochemical industry**

Chakraborty, S., 12 Dec 2019, Tampere University. 211 p. (Tampere University Dissertations)

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

**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

**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

**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

**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

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

**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

### **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

### **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

### **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

### **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

### **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

### **Digestate valorization for bioremediation of petroleum hydrocarbons contaminated soils**

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

### **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

### **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

### **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

### **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

### **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

#### **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

#### **Heap Bioleaching of Low-grade Multimetal Sulphidic Ore in Boreal Conditions**

Halinen, A-K., 27 Nov 2015, Tampere University of Technology. 71 p. (Tampere University of Technology. Publication; vol. 1347)

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

#### **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

#### **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

#### **Vesihuoltotoimintojen ulkoistaminen Suomessa**

Translated title of the contribution: : Vesihuoltotoimintojen ulkoistaminen Suomessa

Heino, O. & Pietilä, P., 2013, Espoo: VALTION TEKNILLINEN TUTKIMUSKESKUS. 6 p.

Research output: Book/Report › Commissioned report › Professional

#### **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

#### **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

#### **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

#### **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

#### **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

### **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

### **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

### **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

### **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

### **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

### **Ulkoistaminen apuväline vesihuoltoverkoston kunnossapitoon?**

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

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Research output: Contribution to journal › Article › Professional

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

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

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Research output: Contribution to journal › Article › Professional

### **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

### **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

### **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

### **Kohti hajautettua infrastruktuuripolitiikkaa? 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

### **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

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

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

Research output: Contribution to journal › Article › Professional

### **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

### **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

### **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

### **Enabling and Integrative Infrastructure Policy: The Role of Inverse Infrastructures in Local Infrastructure Provision with Special Reference to Finnish Water Cooperatives**

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Research output: Book/Report › Commissioned report › Professional

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### **Tammikuun tehopiikki – mitä tapahtui 7.1.2016? Miten tehoa hallitaan paremmin jatkossa?**

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

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

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Research output: Contribution to journal > Article > Professional

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

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

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Research output: Contribution to journal › Article › Professional

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### **Vaihtoehtoisten käyttövoimien hyödyntäminen kaupunkiliikenteen linja-autoissa**

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

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

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

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

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

Translated title of the contribution: : Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia  
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## Environmental history of water : global views on community water supply and sanitation

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

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

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

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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

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

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

### **Conclusions**

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### **Short Global History of Fountains**

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

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

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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.

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

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

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

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

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

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

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#### **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

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

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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.

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

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

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

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

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### **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

### **Missä, missä se kaivo on?**

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

Research output: Contribution to journal > Article > Professional

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

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Research output: Book/Report > Book > 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.

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### **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

### **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

### **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

### **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

### **Vesihuollossa kuntayhteistyö toimii**

Translated title of the contribution: : Vesihuollossa kuntayhteistyö toimii

Katko, T. S. & Pietilä, P. E., 2012, In : *Aamulehti*.

Research output: Contribution to journal > Article > General public

### **Pintavedestä pohjaveteen ja tekopohjaveteen**

Translated title of the contribution: : Pintavedestä pohjaveteen ja tekopohjaveteen

Katko, T., 2010, *Näkymätönt Porii. 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 education makes a global difference**

Katko, T., 2011, In : *Interface: Science Magazine*. 1/2011, p. 1-3 3 p.  
Research output: Contribution to journal › Article › General public

### **Vesihuollossa muhii aikapommi**

Translated title of the contribution: : Vesihuollossa muhii aikapommi  
Katko, T., 2013, In : *Kanava*. 8, p. 37-40 4 p.  
Research output: Contribution to journal › Article › General public

### **Lyhyestä tiede kaunis?**

Translated title of the contribution: : Lyhyestä tiede kaunis?  
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Research output: Contribution to journal › Article › Scientific

### **Water and the city**

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

### **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**

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### **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

### **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

### **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

### **Vanhuus uhkaa vesihuoltoa**

Translated title of the contribution: : Vanhuus uhkaa vesihuoltoa  
Katko, T., 2013, In : *Aamulehti*. p. B16-B16 1 p.  
Research output: Contribution to journal › Article › General public

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

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

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Research output: Contribution to journal › Article › Scientific

### **Asteittain kohti keskitettyä jätevedenpuhdistusta**

Translated title of the contribution: : Asteittain kohti keskitettyä jätevedenpuhdistusta

Katko, T., 2010, *Näkymätöntä 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

### **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**

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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

### **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

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Research output: Contribution to journal > Article > Scientific

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

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

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Research output: Contribution to journal > Article > Professional

### **"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 KehäMedia, p. 128-131

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

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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

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### **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

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

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### **Kohti tasapuolisempaa tutkimuksen arviointia: Pääkirjoitus**

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### **Opening of the seminar**

Katko, T. S., 29 Oct 2013.

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

### **The Challenge of Aging Infrastructure, Aging Staff and Reflections for Education and Research**

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### **Education, Research and Capacity Building for Water Services**

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### **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

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Katko, T. S. & Hukka, J., Apr 2017, In : *Kanava*. 45, 3, p. 57-58 2 p.

Research output: Contribution to journal › Comment/debate › General public

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

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

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Research output: Contribution to journal › Article › Professional

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

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### **Historian hajuista tuoksujen tulevaisuuteen: Pääkaupunkiseudun jätevedenpuhdistuksen keskeiset päätökset Espoon näkökulmasta**

Katko, T. S., 2017, 1 p. Tampere : TamPub.

Research output: Other contribution › 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

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Research output: Contribution to journal › Article › Scientific

### **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

### **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

### **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

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

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### **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

### **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

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

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Research output: Contribution to journal › Article › Scientific

### **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

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

Translated title of the contribution: : Water services education and research closer to the built environment

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Research output: Contribution to journal › Article › Professional



### **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

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

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

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

Research output: Contribution to journal > Article > Professional

### **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

### **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

### **Economic analysis of hydrogen production by methane thermal decomposition: Comparison to competing technologies**

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

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

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

### **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

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

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

### **Effect of N/S ratio on anoxic sulfide oxidizing bioreactors**

Khanongnuch, R., Di Capua, F., Lakaniemi, A-M., Rene, E. & Lens, P. N. L., 19 Jul 2017.

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

### **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

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

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

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Khanongnuch, R., 21 May 2019, Tampere University. 187 p. (Tampere University Dissertations)  
Research output: Book/Report > Doctoral thesis > Collection of Articles

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

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Research output: Contribution to journal > 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

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

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Research output: Contribution to journal > Article > 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.  
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### **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

### **A method for finding suitable particle sizes for thermal conversion processes by using a simulation tool focusing on wood particle heat transfer and chemical kinetics**

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Research output: Book/Report > Doctoral thesis > Monograph

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

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### **Betonirakenteiden korjausohjeet 2016, by 41**

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Research output: Book/Report > Book > Professional

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

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

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### **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

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

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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  
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### **Testattua tahdistusta**

Translated title of the contribution: : Testattua tahdistusta

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

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

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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

### **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

### **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

### **Sähkö- ja elektroniikkateollisuuden ympäristökysymykset**

Translated title of the contribution: : Sähkö- ja elektroniikkateollisuuden ympäristökysymykset

Korpinen, L. & Alanko, T., 2011, Tampereen teknillinen yliopisto. 120 p. (Tampereen teknillinen yliopisto, Energia- ja prosessiteknikan laitos, Opintomoniste; vol. 1)

Research output: Book/Report › Book › Professional

### **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

### **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

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

Translated title of the contribution: : Työntekijöiden altistuminen sähkö- ja magneettikentille 110 kV sähköasemien työtehtävissä

Korpinen, L., 2011, Tampereen teknillinen yliopisto. 62 p. (Tampereen teknillinen yliopisto. Energia- ja prosessiteknikan laitos. Raportti; vol. 192)

Research output: Book/Report › Commissioned report › Professional

**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

**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

**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

**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

**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

**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

**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

**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

**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

### **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

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

Korpunen, H. & Raiko, R., 2013, In : *International Journal of Energy Research*. p. 1-11 11 p.  
Research output: Contribution to journal › Article › Scientific › peer-review

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

Koskue, V., Ledezma, P., Freguia, S. & Kokko, M., Sep 2018.  
Research output: Other conference contribution › Paper, poster or abstract › Scientific

### **Towards enhanced nutrient recovery, biogas production and upgrading through AD and BES integration**

Koskue, V., Ledezma, P., Freguia, S. & Kokko, M., 24 Jun 2019.  
Research output: Other conference contribution › Paper, poster or abstract › Scientific

### **Effect of HRT on nitrogen recovery from real reject water in a 3-chamber bioelectroconcentration cell**

Koskue, V., Rinta-Kanto, J., Ledezma, P., Freguia, S. & Kokko, M., 7 Oct 2019.  
Research output: Other conference contribution › Paper, poster or abstract › Scientific

### **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

### **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

### **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

### **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

### **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

### **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

### **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

**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

**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

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

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

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

**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

**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

**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

**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

**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

**Rating the impact sound insulation of concrete floors with single-number quantities based on a psychoacoustic experiment**

Kylliäinen, M., 29 Aug 2019, Tampere University. 80 p. (Tampere University Dissertations; vol. 93)

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

**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

**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

**Fate of trace elements during and after anaerobic digestion: a sequential extraction method and DGT technique to assess bio-accessible trace elements in digestate**

Laera, A., 22 May 2019, Tampere University. (Tampere University Dissertations)

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

### **Betonielementtien uudelleenkäyttömahdollisuudet**

Translated title of the contribution: : Betonielementtien uudelleenkäyttömahdollisuudet

Lahtensivu, J., Huuhka, S., Annala, P., Pikkuvirta, J., Köliö, A. & Pakkala, T., 2015, Tampere: Tampereen teknillinen yliopisto. Rakennustekniikan laitos. 78 p. (Tampereen teknillinen yliopisto. Rakennustekniikan laitos. Rakennetekniikka. Tutkimusraportti; vol. 162)

Research output: Book/Report > Commissioned report > Professional

### **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

### **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

### **Paperinjalostus- ja pakkaustekniikan tutkimusyksikkö uudistaa kurssitarjontaa**

Translated title of the contribution: : Paperinjalostus- ja pakkaustekniikan tutkimusyksikkö uudistaa kurssitarjontaa

Lahti, J. & Kuusipalo, J., 2010, In : Anturi. 5, p. 1-1 1 p.

Research output: Contribution to journal > Article > General public

### **Nanoscale Surface Processing of Extrusion Coated Substrates with Atmospheric Plasma Technology**

Lahti, J., 2013.

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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **Editorial**

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

Research output: Contribution to journal › Editorial › Scientific

### **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

### **Kyläyhteisöt palvelukulutuksen alustana**

Translated title of the contribution: : Kyläyhteisöt palvelukulutuksen alustana

Laukka, A., Heino, O., Valkama, P. & Salonen, A., 2013, Tampere: Maaseutupolitiikan yhteistyöryhmä, YTR. 16 p. (Maaseutupolitiikan yhteistyöryhmän julkaisuja; no. 6)

Research output: Book/Report › Commissioned report › Professional

### **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

### **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., Kuittinen, 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

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

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

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

### **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

### **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

### **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



### **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

### **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

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

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

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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **Acceptability of contaminated soils and waste materials in landfill structures**

Leppänen, M. M. & Kuula, P., 2016.

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

### **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

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

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

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### **The effect of lake bottom sediment layers on radionuclide transport from bedrock to biosphere and doses to humans**

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

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Research output: Book/Report › Commissioned report › Professional

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