

**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

**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

**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

**Access to Water? Dynamic Capacity Change for Sustainable Rural Water and Sanitation Services for All**

Rautanen, S-L., 18 Mar 2016, Tampere University of Technology. 112 p. (Tampere University of Technology. Publication; vol. 1373)

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

**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

**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

**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

**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

**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

**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

**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

#### **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

#### **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

#### **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

#### **ADM1 Based Mathematical Models For Assessing The Effect Of Trace Elements Dynamics On Solid Waste Anaerobic Digestion**

Maharaj, B., 10 Dec 2019, Tampere University. 73 p.  
Research output: Book/Report › Doctoral thesis › Collection of Articles

#### **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

#### **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

#### **Älypölkky, radan monitorointi, kreosoottipölkyn korvaavat vaihtoehdot**

Luomala, H., 29 Nov 2016  
Research output: Other contribution › 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 method for finding suitable particle sizes for thermal conversion processes by using a simulation tool focusing on wood particle heat transfer and chemical kinetics**

Kokko, L., 2014, Tampere: Tampere University of Technology. 124 p. (Tampere University of Technology. Publication; vol. 1260)  
Research output: Book/Report › Doctoral thesis › Monograph

#### **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

#### **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

#### **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

#### **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

#### **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

#### **Application oriented wear testing of wear resistant steels in mining industry**

Ojala, N., Nov 2016.

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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **ASROCKS-Hankkeen heikkouuttomenetelmien vertailu**

Translated title of the contribution: : ASROCKS-Hankkeen heikkouuttomenetelmien vertailu

Tarvainen, T., Hatakka, T., Backman, B., Ketola, T. & Härmä, P., 2014, *GEOLOGIAN TUTKIMUSKESKUS*. 13 p.

Research output: Book/Report > Commissioned report > Professional

#### **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

### **Assessment of the Analytical Potential of HPLC-SEC for the Characterization of DOM and Nutrients in Various Types of Water**

Szabó, H. M., 6 Mar 2020, Tampere University. (Tampere University Dissertations; vol. 224)  
Research output: Book/Report > Doctoral thesis > Collection of Articles

### **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

### **Asteittain kohti keskitettyä jätevedenpuhdistusta**

Translated title of the contribution : Asteittain kohti keskitettyä jätevedenpuhdistusta  
Katko, T., 2010, *Näkymätönt Porii. 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

### **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

### **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**

Tofvanen, H., Keipi, T. & Raiko, R., 2016, In : *Fuel*. 176, p. 153-164  
Research output: Contribution to journal > Article > 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

### **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

### **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

### **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

### **Ballast bed**

Luomala, H., 24 Nov 2016  
Research output: Other contribution > Scientific

### **Betonielementtien uudelleenkäyttömahdollisuudet**

Translated title of the contribution : Betonielementtien uudelleenkäyttömahdollisuudet  
Lahdensivu, J., Huuhka, S., Annala, P., Pikkuvirta, J., Kölliö, 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

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

Köliö, A., Pakkala, T., Lahdensivu, J. & Pentti, M., May 2016, Suomen Betoniyhdistys r.y. 115 p.

Research output: Book/Report › Book › Professional

#### **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

#### **Biochars from solid digestates as sorbing materials for metal(loid)s removal from water**

Wongrod, S., 23 May 2019, Tampere University. 79 p. (Tampere University Dissertations)

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

#### **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

#### **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

#### **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

#### **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

#### **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

#### **Biological Nitrogen Removal from Acidic, Heavy-metal Containing Waters**

Zou, G., 2015, Tampere: Tampere University of Technology. 92 p. (Tampere University of Technology. Publication; vol. 1314)

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

#### **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

#### **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

#### **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

**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

**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

**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

**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

**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

**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

**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

**Catalytic effect of Ca and K on CO2 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

**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

**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

### **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

### **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

### **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

### **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

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

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

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

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

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

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

### **Characterization 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

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

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

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

### **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

### **Coal char combustion in O2/N2 and O2/CO2 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

### **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

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

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### **Comparative analysis and discussion**

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**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

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

Bañreca, 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

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

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Research output: Contribution to journal › Article › Scientific

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

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

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

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

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Research output: Book/Report › Book › 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

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**Flotaatiokennon injektorin diffusori**

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

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

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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

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

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

#### **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

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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

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

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

#### **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

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

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

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Research output: Contribution to journal › Article › Professional

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

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

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

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

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Research output: Contribution to journal › Article › Professional

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

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### **Historian hajusta tuoksujen tulevaisuuteen: pääkaupunkiseudun jätevedenpuhdistuksen keskeiset päätökset Espoon näkökulmasta**

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

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

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

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

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

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

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

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

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

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

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

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### **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

### **Ilmasto muuttuu, riittääkö vesi?**

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

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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**

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

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

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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

**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

**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

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

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

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

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

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

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

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

**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

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

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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**

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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., Kanninen, 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

### **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.

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

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

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

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

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

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

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### **Ja alussa oli vesi**

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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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **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

### **Kapkaupungin pysyvä vesikriisi – ratkeako 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

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

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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 Review*. Mäkinen, T., Alakangas, E. & Kauppi, M. (eds.). p. 39-45

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

### **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

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

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Research output: Contribution to journal › Article › Scientific

**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

**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

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

**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

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

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

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Research output: Contribution to journal › Article › 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

**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

### **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

### **Kyläyhteisöt palvelukulutuksen alustana**

Translated title of the contribution: : Kyläyhteisöt palvelukulutuksen alustana

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Research output: Book/Report › Commissioned report › Professional

### **Kylien palvelutuotantoedellytyksistä erityisesti julkisten palvelujen näkökulmasta tarkasteltuna**

Translated title of the contribution: : Kylien palvelutuotantoedellytyksistä erityisesti julkisten palvelujen näkökulmasta tarkasteltuna

Valkama, P., Heino, O., Salonen, A. & Laukka, A., 2013, Tampere: Maaseutupolitiikan yhteistyöryhmä, YTR. 9 p. (Maaseutupolitiikan yhteistyöryhmän julkaisuja; no. 6)

Research output: Book/Report › Commissioned report › Professional

### **Laajentumisen aika**

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

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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

### **Lähde: Pohjavedenottamot**

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

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### **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.

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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 voor Duurzaam Ontwikkeling vzw, p. 250-258 D.3.2

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

### **Liikenteen päästötavoitteiden saavuttaminen 2030 - politiikkatoimenpiteiden tarkastelu**

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

Research output: Book/Report › Commissioned report › Professional



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

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

#### **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.

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#### **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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#### **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

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

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

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Research output: Contribution to journal › Article › 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

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

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

#### **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

#### **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

#### **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

**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

**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

**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

**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

**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

**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

**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

**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

**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

**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

**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

**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

**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

**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. & Tirola, M., 8 Nov 2016, In : Journal of Industrial Microbiology and Biotechnology. p. 1-13

Research output: Contribution to journal > Article > 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

**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

**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

**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

**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

**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

**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

### **Missä, missä se kaivo on?**

Katko, T., 2009, In : Vesimittari, HS-Veden asiakaslehti. 1, p. s. 8  
Research output: Contribution to journal › Article › Professional

### **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

### **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

### **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

### **Modeling of Finnish building sector energy consumption and greenhouse gas emission: specification of POLIREM policy scenario model**

Mattinen, M. & Heljo, J., 2016, Suomen ympäristökeskus. 23 p. (Reports of the Finnish Environment Institute; no. 26/2016)  
Research output: Book/Report › Commissioned report › Professional

### **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

### **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

### **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

### **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

### **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

### **Näkökulma-kolumni: Putkiremontit kestävät aivan liian kauan**

Saari, A., 24 Nov 2016, Sanoma Talotekniikkajulkaisut Oy.  
Research output: Other contribution › Scientific

### **Näkökulma: Maltti on valttia Suomellekin nollaenergiatavoitteita asetettaessa**

Vinha, J., 13 Feb 2015, In : Rakennuslehti. 6  
Research output: Contribution to journal › Article › General public

### **Näkymätönt Porrii. Porin veden historia**

Translated title of the contribution: : Näkymätönt Porrii. 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

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

Lahti, J., 2013.  
Research output: Other conference contribution > Paper, poster or abstract > Scientific

### **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

### **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

### **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

### **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

### **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

### **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

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

Tao, R., 22 May 2019, Tampere University. 153 p. (Tampere University Dissertations)  
Research output: Book/Report > Doctoral thesis > Collection of Articles

### **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

### **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 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

**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

**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

**Opening of the seminar**

Katko, T. S., 29 Oct 2013.

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

**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

**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

**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

**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

**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

**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

**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

### **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

### **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

### **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

### **Paradigman jäljillä: Tutkimus vesihuollon ajattelumalleista**

Heino, O., 15 Apr 2016, Tampere: Tampere University of Technology. 111 p. (Tampere University of Technology. Publication; vol. 1374)

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

### **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

### **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

### **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

### **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. 509-510

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

### **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 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 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

### **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

### **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

### **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

### **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

### **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

### **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

### **"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

### **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



### **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

### **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

### **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

### **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

### **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

### **Production of Oleaginous Microbial Biomass by Reusing Wastewaters**

Marjakangas, J., 28 Nov 2015, Tampere University of Technology. 58 p. (Tampere University of Technology. Publication; vol. 1348)

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

### **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

### **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

### **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

### **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

### **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

**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

**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

**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

**Recycling mine tailings in chemically bonded ceramics - A review**  
Kinnunen, P., Ismailov, A., Solismaa, S., Sreenivasan, H., Räisänen, 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

**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

**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

**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

**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

**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 Wasterwater Treatment, Technical, Environmental & Economic Challenges, Santiago de Compostela, Spain, 25-27 June 2012*. International Water Association IWA, p. 1-4 4 p. (EcoTechnologies for Wasterwater Treatment, IWA International Conference).  
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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

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

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

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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.

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

### **"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

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

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

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### **Sähköautoilla suuri vähennys päästöihin - pian myös kilpailukyiseen hintaan**

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Research output: Book/Report > Commissioned report > Professional

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Research output: Book/Report > Commissioned report > Professional

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

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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

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

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

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### **Sidosryhmien näkemykset jätehuollon markkinoistumisesta**

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

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

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

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

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**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.

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**Suomen vesihuollon kehitys kansainvälisessä kontekstissa**

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

### 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

### 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.

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

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

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

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### 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.

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### Tempoilevasta tiede- ja koulutuspolitiikasta kohti laajempaa näkemystä

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

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

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

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

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

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

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

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

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

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Pakkala, T., Lemberg, A-M. & Lahdensivu, J., Jun 2016, p. 53. 1 p.

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

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

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

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

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### **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

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

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

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### **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).

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### **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.

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### **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

### **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

### **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

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

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

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

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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

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

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

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

### **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

### **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

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

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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

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

### **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

### **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.

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

Cajal-Marinosa, 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

### **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

### **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

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

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

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

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

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

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

### **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

### **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

### **Tutkimusohjelma Elinkaaritehokas RAta (TERA): Kokonaisvaltainen ote ratarakennetutkimukseen**

Luomala, H., 15 Nov 2016

Research output: Other contribution › Scientific

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

Juuti, P. & Rajala, R., 2008, *Ei jätevedenpuhdistamaa minun takapihalleni: Jätevedenpuhdistuksen päätöksenteko, päättämätöprosessit ja julkinen keskustelu Espoossa historiassa, nyt ja tuellaisuudessa*. Juuti, P. & Rajala, R. (eds.).

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

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

### **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

### **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

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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

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

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

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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

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

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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**

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

### **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

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

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Research output: Contribution to journal › 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**

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

**Uuden vuosituhatosen tiennäyttäjät – HS-Veden alkutaival**

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

**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

**Vaatus paremmasta puhdistustuloksesta ohjaa jätevedenpuhdistuksen päätöksentekoa**

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

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

**Vaihtoehtoisten käyttövoimien hyödyntäminen kaupunkiliikenteen linja-autoissa**

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Research output: Book/Report › Commissioned report › Professional

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

Research output: Contribution to journal › Review 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

**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

**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

**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