

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

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

Examples of occupational ELF electric and magnetic field exposure in Finland
Alanko, T., Pääkkönen, R., Lahtinen, S. & Korpinen, L., 2011, *10th International Conference European Bioelectromagnetics Association, 21-24 February 2011, Rome, Italy*. Rome: European Bioelectromagnetics Association, p. 1-2 2 p. (International Conference European Bioelectromagnetics Association).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Technology development theories and water services evolution
Antila, K., Katko, T. S. & Mattila, H., 2013, *Water Services Management and Governance : Lessons for a Sustainable Future*. Katko, T. S., Juuti, P. S., Schwartz, K. & Rajala, R. P. (eds.). IWA Publishing, p. 13-27 15 p.
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

Insentiivit julkisen sektorin innovaatiotoiminnan edistämisen välineinä. Esimerkkinä Georgian osavaltion palvelu-uudistus
Translated title of the contribution: : Insentiivit julkisen sektorin innovaatiotoiminnan edistämisen välineinä. Esimerkkinä Georgian osavaltion palvelu-uudistus
Anttiroiko, A-V. & Heino, O., 2012, In : *Työelämän tutkimus*. 10, 3, p. 298-305 8 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Käänteiset infrastruktuurit ja integroiva infrastruktuuripolitiikka
Translated title of the contribution: : Käänteiset infrastruktuurit ja integroiva infrastruktuuripolitiikka
Anttiroiko, A-V. & Heino, O., 2013, In : *Yhdyskuntasuunnittelu*. 51, 3, p. 30-43 14 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Unipoli Green - Four Universities Working Together for Sustainability
Asikainen, E., Hellman, S., Parjanen, L., Puputti, M., Raatikainen, S. & Schroderus, M., 2 Dec 2016, *Handbook of Theory and Practice of Sustainable Development in Higher Education: Volume 3*. Leal Filho, W., Mifsud, M., Shiel, C. & Pretorius, R. (eds.). Springer International Publishing, p. 257-273 17 p. (World Sustainability Series).
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

Merkittävimmät päästövähennystoimet ilmastonmuutoksen hillitsemiseksi
Auvinen, K., Maanavilja, L., Seppälä, J., Sankelo, P., Mäkinen, J., Sarkkola, S., Helonheimo, T., Saikku, L., Lounasheimo, J. & Riekkinen, V., 15 May 2020, Suomen ympäristökeskus (SYKE). 4 p.
Research output: Book/Report > Commissioned report > Professional

Urban water conflicts in recent European history: Changing interactions between technology, environment and society
Barraque, B., Juuti, P. S. & Katko, T. S., 2012, *Urban water conflicts*. Barraque, B. (ed.). Taylor & Francis and UNESCO Publishing; A Balkema book, p. 15-32 (Urban water series, UNESCO IHP; vol. 7).
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

Fe₂O₃-TiO₂ Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation
Barreca, D., Carraro, G., Gasparotto, A., Maccato, C., Warwick, M. E. A., Kaunisto, K., Sada, C., Turner, S., Gönüllü, Y., Ruoko, T-P., Borgese, L., Bontempi, E., Van Tendeloo, G., Lemmetyinen, H. & Mathur, S., 2015, In : *Advanced Materials Interfaces*. 2, 17
Research output: Contribution to journal > Article > Scientific > peer-review

Long-term thermophilic mono-digestion of rendering wastes and co-digestion with potato pulp
Bayr, S., Ojanperä, M., Kaparaju, P. & Rintala, J., 2014, In : *Waste Management*. 34, 10, p. 1853-1859 7 p.
Research output: Contribution to journal > Article > Scientific > peer-review

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

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

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

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

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

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

Dry Toilet Sanitation as an Alternative Solution to the Rural Ethiopia

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Plasma-Assisted Fabrication of Fe₂O₃ - Co₃O₄ Nanomaterials as Anodes for Photoelectrochemical Water Splitting
Carraro, G., Maccato, C., Gasparotto, A., Kaunisto, K., Sada, C. & Barreca, D., 1 Jan 2016, In : Plasma Processes and Polymers. 13, 1, p. 191-200 10 p.

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

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

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

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

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

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

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

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

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

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

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

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

Particle growth with photochemical age from new particle formation to haze in the winter of Beijing, China

Chu, B., Dada, L., Liu, Y., Yao, L., Wang, Y., Du, W., Cai, J., Dällenbach, K. R., Chen, X., Simonen, P., Zhou, Y., Deng, C., Fu, Y., Yin, R., Li, H., He, X. C., Feng, Z., Yan, C., Kangasluoma, J., Bianchi, F., Jiang, J., Kujansuu, J., Kerminen, V. M., Petäjä, T., He, H. & Kulmala, M., 2020, In : Science of the Total Environment. 753, 7 p., 142207.

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

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

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

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

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

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Recycling potential of post-consumer plastic packaging waste in Finland

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

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

Translated title of the contribution: : Full-scale failure test on sensitive clays: the Finnish experience
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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

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

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E-sail test payload of the ESTCube-1 nanosatellite

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

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

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

Highly ductile amorphous oxide at room temperature and high strain rate

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

Digestate valorization for bioremediation of petroleum hydrocarbons contaminated soils

Gielnik, A., 11 Dec 2019, Tampere University. 95 p. (Tampere University Dissertations)
Research output: Book/Report > Doctoral thesis > Collection of Articles

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

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

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

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

Conversion of Solid Waste into Functional Carbon Materials: A Review

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

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

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

A study of a condensing heat exchanger and electrostatic precipitator combination for small-scale wood combustion

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

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

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

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

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

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

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

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

Vesihuoltotoimintojen ulkoistaminen Suomessa

Translated title of the contribution: : Vesihuoltotoimintojen ulkoistaminen Suomessa

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

Research output: Book/Report › Commissioned report › Professional

Jätehuollon, -politiikan ja -lainsäädännön institutionaalinen kuvaus

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

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

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

Jätehuollon tekniset vaihtoehdot

Translated title of the contribution: : Jätehuollon tekniset vaihtoehdot

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

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Water - The Most Important Subject of the World

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

Johtoja ja joukkuehenkeä

Translated title of the contribution: : Johtoja ja joukkuehenkeä

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

Research output: Contribution to journal › Article › Professional

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

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

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Ikääntyvä infra - vesihuollon keskeisin haaste

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

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

Tuotanto- ja operointi-innovaatiot - case vesihuolto

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

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

Heikot signaalit vesihuollossa

Translated title of the contribution: : Heikot signaalit vesihuollossa

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

Research output: Contribution to journal › Article › Professional

Osuuskunnat mukaan infrastruktuuripolitiikkaan

Translated title of the contribution: : Osuuskunnat mukaan infrastruktuuripolitiikkaan

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

Research output: Contribution to journal › Article › Professional

Ulkoistaminen apuväline vesihuoltoverkoston kunnossapitoon?

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

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Research output: Contribution to journal › Article › Professional

Käänteiset perusrakenteet : Suuntana hajautettu infrastruktuuripolitiikka?

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

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

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Halpaa eli hyvää - minkälaisia merkityksiä vesihuoltoala rakentaa itsestään

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

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

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

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

Tighter contracts or more trust? Outsourcing in Finnish water utilities

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

Kohti hajautettua infrastruktuuripolitiikkaa? Paikalliset vesiosuuskunnat perusrakenteiden tuottajina

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

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

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Vesiosuuskunnat - minä ne tulisi nähdä?

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Research output: Contribution to journal › Article › Professional

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

Utility–Customer Communication: The Case of Water Utilities

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

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

Konvergenssi ja divergenssi ongelmatyyppien luonnehtijoina: Esimerkkinä vesihuoltoinfrastruktuurin ikääntyminen

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

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

Heino, O. & Anttiroiko, A-V., 28 Nov 2014, MPRA. (MPRA Paper; no. 60276)

Research output: Book/Report › Commissioned report › Professional

Paradigman jäljillä: Tutkimus vesihuollon ajattelumalleista

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

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

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

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

Heljo, J., Harsia, P., Holttinen, H., Aalto, P., Björkqvist, T., Järventausta, P., Kaivo-oja, J., Kojo, M., Korpela, T., Rautiainen, A., Repo, S., Ruostetsaari, I. & Sorri, J., 2016, p. 1-15, (EL-TRAN analyysi; vol. 7/2016).

Research output: Working paper › Discussion paper › Professional

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

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

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

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

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

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

Design aspects of all atomic layer deposited TiO₂–Fe₂O₃ scaffold-absorber photoanodes for water splitting

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

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

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

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

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

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

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Research output: Contribution to journal > Article > Professional

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

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

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

Paradigma alternativo : O papel das cooperativas e das autoridades locais

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

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Research output: 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

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

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

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Vesihuollolla voidaan myös paikata kuntataloutta

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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

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Research output: Contribution to journal > Article > Professional

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Research output: Contribution to journal > Article > Professional

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Preferential adsorption of Cu in a multi-metal mixture onto biogenic elemental selenium nanoparticles

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

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

Vaihtoehtoisten käyttövoimien hyödyntäminen kaupunkiliikenteen linja-autoissa

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Research output: Book/Report > Commissioned report > Professional

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Editorial Note: "Pasts and Futures of Water"

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Research output: Contribution to journal > Article > Scientific

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

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

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

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

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

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

Part III: Modern Urban Infrastructure. Ch 20 Introduction

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Hätä ei häviä käymälöitä poistamalla

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Conclusions

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

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

Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia

Translated title of the contribution: : Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia
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Research output: Book/Report › Book › Scientific › peer-review

Ilmasto muuttuu, riittääkö vesi?

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Research output: Contribution to journal › Article › General public

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

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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
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Historical development of water and sanitation services

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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

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

Translated title of the contribution: : Helsinki sai ensimmäisen puhdistamonsa 1910; Helsinki gained its first wastewater treatment plant 1910
Juuti, P., Katko, T. & Rajala, R., 2011, In : Kuntatekniikka. 66, 1, p. 49-50
Research output: Contribution to journal › Article › Professional

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Research output: Book/Report › Book › 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

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

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

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

Epilogue: Local Solutions Based on Local Conditions

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

Hyvän veden ja hyvien yhteyksien kaupunki - Riihimäen Veden historia

Translated title of the contribution: : Hyvän veden ja hyvien yhteyksien kaupunki - Riihimäen Veden historia

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

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

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

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

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

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Conclusions

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Viinikanlahden siirto vielä harkintaan

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Research output: Contribution to journal › Article › General public

Short Global History of Fountains

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

Sata vuotta Suomen suurimmasta lavantautiepidemiasta

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

Valkea kaupunki, mustat vedet

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

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

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

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Laajentumisen aika

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Historian hajuista tuoksujen tulevaisuuteen: pääkaupunkiseudun jätevedenpuhdistuksen keskeiset päätökset Espoon näkökulmasta

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

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

Yhdyskuntien vesihuolto – kehityksen ja elämän ehto

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

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Yhdyskuntajätehuollon markkinainnovaatiot tutkimuskaupungeissa

Translated title of the contribution: : Yhdyskuntajätehuollon markkinainnovaatiot tutkimuskaupungeissa

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

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

Sidosryhmien näkemykset jätehuollon markkinoistumisesta

Translated title of the contribution: : Sidosryhmien näkemykset jätehuollon markkinoistumisesta

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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

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

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Vieraskynä : Vesialan osaamista kehitettävä yhteiskunnan tarpeista

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

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

Research output: Contribution to journal › Article › Scientific

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Hanaa! Suomen vesihuolto - kehitys ja yhteiskunnallinen merkitys

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

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

Lähteet Suomen vesihuollossa

Translated title of the contribution: : Lähteet Suomen vesihuollossa

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

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

Vesihuollossa kuntayhteistyö toimii

Translated title of the contribution: : Vesihuollossa kuntayhteistyö toimii

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

Research output: Contribution to journal › Article › General public

Pintavedestä pohjaveteen ja tekopohjaveteen

Translated title of the contribution: : Pintavedestä pohjaveteen ja tekopohjaveteen

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

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

Water education makes a global difference

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

Vesihuollossa muhii aikapommi

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

Lyhyestä tiede kaunis?

Translated title of the contribution: : Lyhyestä tiede kaunis?
Katko, T., 2011, In : *Tiedepolitiikka*. 36, 2, p. 55-55
Research output: Contribution to journal › Article › Scientific

Water and the city

Katko, T. S., Juuti, P. S. & Tempelhoff, J., 2010, In : *Environment and History*. 16, 2, p. 213-234
Research output: Contribution to journal › Article › Scientific › peer-review

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

Vesihuollon kehitys ja yhteiskunnallinen merkitys : Hapertuvatko hanat?

Translated title of the contribution: : Vesihuollon kehitys ja yhteiskunnallinen merkitys : Hapertuvatko hanat?
Katko, T. S., 2013, In : *Kuntatekniikka*. 5, p. 14-16 3 p.
Research output: Contribution to journal › Article › Professional

Integration of water and wastewater utilities

Katko, T. S., Kurki, V. O., Juuti, P. S., Rajala, R. P. & Seppälä, O. T., 2013, *Water Services Management and Governance : Lessons for a Sustainable Future*. Katko, T. S., Juuti, P. S., Schwartz, K. & Rajala, R. P. (eds.). IWA Publishing, p. 29-40 12 p.
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

Katko, T., 2010, In : *Public Works Management & Policy*, Vol. 14, Nr 4, April 2010.
Research output: Contribution to journal › Article › Scientific

Vanhuus uhkaa vesihuoltoa

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

Pääkirjoitus. Veden keskeinen merkitys yhteiskunnassa ja yhdyskunnissa

Translated title of the contribution: : Pääkirjoitus. Veden keskeinen merkitys yhteiskunnassa ja yhdyskunnissa
Katko, T., 2011, In : *Ympäristöhistoria: Finnish Journal of Environmental History*. 1, 2, p. 4-7
Research output: Contribution to journal › Article › Scientific

Water services and cooperation

Katko, T. S., Hukka, J. J., Mashauri, D. A. & Nyangeri, E. N., 2014, *Global water : issues and insights*. Grafton, R. Q., Wyrwoll, P., White, C. & Allendes, D. (eds.). Australia: ANU Press, Australian National University Press, p. 231-239 9 p.
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Editorial. Central role of water in society and community

Katko, T., 2011, In : *Ympäristöhistoria: Finnish Journal of Environmental History*. 1, 2, p. 8-11
Research output: Contribution to journal › Article › Scientific

Asteittain kohti keskitettyä jätevedenpuhdistusta

Translated title of the contribution: : Asteittain kohti keskitettyä jätevedenpuhdistusta

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

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

Dags att syna utmaningarna inom vattenförsörjningen

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

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

Research output: Contribution to journal > Article > Professional

Vesihuolto osana näkymätöntä kaupunkia

Translated title of the contribution: : Vesihuolto osana näkymätöntä kaupunkia

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

Research output: Contribution to journal > Article > Professional

Vesihuollon historian lyhyt oppimäärä

Translated title of the contribution: : Vesihuollon historian lyhyt oppimäärä

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

Research output: Contribution to journal > Article > Professional

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

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

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

Research output: Contribution to journal > Article > Scientific

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

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

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

Research output: Contribution to journal > Article > Professional

"Rocky Fountains" of Keciören, Turkey

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

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

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

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

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

Research output: Contribution to journal > Article > Professional

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

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

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

Research output: Contribution to journal > Article > Professional

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

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

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

Finnish water services: Experiences in global perspective

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

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

Water services heritage and institutional diversity

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

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

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

Opening of the seminar

Katko, T. S., 29 Oct 2013.

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

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

Katko, T. S., 12 Aug 2014.

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

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

The need for "champions" in rural water supply

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

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

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

Research output: Contribution to journal › Article › Professional

Vesihuollon koulutus on erinomaista kehitysyhteistyötä: Keskustelua.

Translated title of the contribution: : Water Services Education presents excellent development cooperation: Discussion forum.

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

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

Vesihuollon globaalit haasteet ja instituutioiden roolit

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

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

Research output: Contribution to journal › Article › Professional

Global challenges and role of institutions in water services

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

Research output: Contribution to journal › Article › Professional

Historian hajuista tuoksujen tulevaisuuteen: Pääkaupunkiseudun jätevedenpuhdistuksen keskeiset päätökset Espoon näkökulmasta

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

Research output: Other contribution › Scientific

Kirja-arviointi: Kuinka vesiensuojelu saatiin pääosin kuntoon?

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

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

Research output: Contribution to journal › Article › Scientific

Tempoilevasta tiede- ja koulutuspolitiikasta kohti laajempaa näkemystä

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

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

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

Vesihuollon ammattilaiset ovat verkostoituneet kautta aikojen

Translated title of the contribution: : Water services professionals have networked throughout history

Katko, T. S., Juuti, P. & Rajala, R., Dec 2017, In : *Vesitalous*. 58, 6, p. 16-19 4 p.

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

Vesihuolto kaupungistuvissa yhteiskunnissa

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

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

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

Finnish water services: Experiences in global perspective

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

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

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

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

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Research output: Contribution to journal › Article › Scientific

Suomen vesihuollon kehitys kansainvälisessä kontekstissa

Translated title of the contribution: : Development of Finnish water services in international perspective

Katko, T. S. & Juuti, P., 2018, In : *Tekniikan Waiheita: Teknik I Tiden*. 36, 2, p. 5-24 20 p.

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

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

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

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

Research output: Contribution to journal › Article › Scientific

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

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

Research output: Contribution to journal › Article › Professional

Vesihuollon koulutus ja tutkimus lähemmäksi rakennettua ympäristöä

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

Katko, T. S., Aug 2019, In : *Vesitalous*. 60, 4, p. 24-25 2 p.

Research output: Contribution to journal › Article › Professional

Foreword Towards More Resilient Water Services

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

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

Vesihuolto yhdyskuntien ympäristön turvaajana: uskomuksia ja todellisuuksia

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

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

Research output: Contribution to journal > Article > Professional

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

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

Research output: Contribution to journal > Literature review > Scientific

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

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

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

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

Keipi, T., Tolvanen, H. & Konttinen, J., 1 Mar 2018, In : *Energy Conversion and Management*. 159, p. 264-273 10 p.

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

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

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

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

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

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

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

Effect of N/S ratio on anoxic sulfide oxidizing bioreactors

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

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

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

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

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

Transient-state operation of an anoxic biotrickling filter for H₂S removal

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

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

Hydrogen sulfide removal from synthetic biogas using anoxic biofilm reactors

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

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

Kinnunen, V., Craggs, R. & Rintala, J., 2014, In : *Water Research*. 57, p. 247-257 11 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Recycling mine tailings in chemically bonded ceramics - A review

Kinnunen, P., Ismailov, A., Solismaa, S., Sreenivasan, H., Räsänen, M-L., Levänen, E. & Illikainen, M., 2018, In : *Journal of Cleaner Production*. 174, p. 634-649
Research output: Contribution to journal > Review Article > Scientific > peer-review

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

Koisaari, T., Utriainen, R., Kari, T. & Tervo, T., 13 Dec 2019, In : *Accident Analysis and Prevention*. 135, 2020, 105396.
Research output: Contribution to journal > Article > Scientific > peer-review

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

Koivisto, K., Forsman, J., Ronkainen, M., Lahtinen, P., Kolisoja, P. & Kuula, P., 2016, *Proceedings of the 17th Nordic Geotechnical Meeting Reykjavik Iceland: Challenges in Nordic Geotechnic 25th - 28th of May*. Reykjavik: Icelandic Geotechnical Society, 10 p.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Kinetics of biomass pyrolysis

Kokko, L., Tolvanen, H., Hankalin, V. & Raiko, R., 2010, *BioRefine Yearbook 2010. Tekes Rewiew*. Mäkinen, T., Alakangas, E. & Kauppi, M. (eds.). p. 39-45
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

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

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

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

Kokko, L., Tolvanen, H., Hämäläinen, K. & Raiko, R., 2012, In : *Biomass & Bioenergy*. 42, Jul, p. 219-223
Research output: Contribution to journal > Article > Scientific > peer-review

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

Modelling of plastic culvert and road embankment interaction in 3D

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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

Values and Attitudes in Engineering Education

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

A recombinant Escherichia coli sensor strain for the detection of tetracyclines

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

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

Testattua tahdistusta

Translated title of the contribution: : Testattua tahdistusta
Korpinen, L., 2012, In : *Sähkö & Tele*. 85, 3, p. 24-26
Research output: Contribution to journal › Article › Professional

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

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

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

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

Sähkö- ja elektroniikkateollisuuden ympäristökysymykset

Translated title of the contribution: : Sähkö- ja elektroniikkateollisuuden ympäristökysymykset
Korpinen, L. & Alanko, T., 2011, Tampereen teknillinen yliopisto. 120 p. (Tampereen teknillinen yliopisto, Energia- ja prosessiteknikan laitos, Opintomoniste; vol. 1)
Research output: Book/Report › Book › Professional

Mental symptoms and the use of new technical equipment

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

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

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

Työntekijöiden altistuminen sähkö- ja magneettikentille 110 kV sähköasemien työtehtävissä

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

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

Research output: Book/Report › Commissioned report › Professional

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

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

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Korpinen, L. & Pääkkönen, R., 2011, In : *Mental Illness*. 3, 1, p. 25-28

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Korpinen, L., Elovaara, J. A. & Kuisti, H. A., 2011, In : *Bioelectromagnetics*. p. 79-83

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

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

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

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

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

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

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

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

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

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

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

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

Kotilainen, M. & Vuoristo, P., 2015, *Surface Modification Technologies XXVIII: Tampere University of Technology Tampere, Finland June 16-18, 2014*. p. 481-491 11 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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

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

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

Kramb, J., Konttinen, J., Backman, R., Salo, K. & Roberts, M., 1 Oct 2016, In : *Fuel*. 181, p. 319-324 6 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Perfusion characterization using flow simulations and μ PIV measurements

Kreutzer, J., Honkanen, M., Laaksonen, J. & Kallio, P., 2010, *Proceedings of the 2nd European Conference on Microfluidics - Microfluidics 2010, Toulouse, December 8-10, 2010*. p. 1-9 9 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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

Kuhad, R. C., Deswal, D., Sharma, S., Bhattacharya, A., Kumar Jain, K., Kaur, A., Pletschke, B. I., Singh, A. & Karp, M., 2016, In : *Renewable and Sustainable Energy Reviews*. 55, p. 249-272 24 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Bilateral collaboration in municipal water and wastewater services in Finland

Kurki, V. O., Katko, T. S. & Pietilä, P. E., 2010, In : *Water*. 2, 4, p. 815-825
Research output: Contribution to journal › Review Article › Scientific › peer-review

Vesihuollon ylikunnalliset sopimukset lisääntymässä

Translated title of the contribution : Vesihuollon ylikunnalliset sopimukset lisääntymässä
Kurki, V., 2010, In : *Kuntatekniikka*. 2, p. 18-18
Research output: Contribution to journal › Article › Professional

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

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

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

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

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

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

Negotiating Groundwater Governance: Lessons from Contentious Aquifer Recharge Projects

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

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

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

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

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

Negotiating water governance: towards cooperation in contentious groundwater recharge projects

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

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

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

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

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

TTY:ssä panostetaan pakkausalaan

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

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

Research output: Contribution to journal › Article › Professional

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

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

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

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

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

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

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

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

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

Landowners' willingness to promote bioenergy production on wasteland – future impact on land use of cutaway peatlands

Laasasenaho, K., Lensu, A., Rintala, J. & Lauhanen, R., 1 Dec 2017, In : *Land Use Policy*. 69, p. 167-175 9 p.

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

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

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

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

Betonielementtien uudelleenkäyttömahdollisuudet

Translated title of the contribution: : Betonielementtien uudelleenkäyttömahdollisuudet

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

Research output: Book/Report > Commissioned report > Professional

Turning up the heat on printability

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

Research output: Contribution to journal > Article > Scientific

Turning up the heat on printability

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

Research output: Contribution to journal > Article > Scientific

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

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

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

Paperinjalostus- ja pakkaustekniikan tutkimusyksikkö uudistaa kurssitarjontaa

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

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

Research output: Contribution to journal > Article > General public

Nanoscale Surface Processing of Extrusion Coated Substrates with Atmospheric Plasma Technology

Lahti, J., 2013.

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

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

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

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

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

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

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

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

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

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

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

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

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

Biogenic hydrogen and methane production from reed canary grass

Lakaniemi, A-M., Koskinen, P. E. P., Nevatalo, L. M., Kaksonen, A. H. & Puhakka, J. A., 2011, In : Biomass & Bioenergy. 35, 2, p. 773-780

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

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

Lakaniemi, A-M., Hulatt, C. J., Thomas, D. N., Tuovinen, O. H. & Puhakka, J. A., 2011, In : Biotechnology for Biofuels. 4, 1, p. 1-12 12 p., 34.

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

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

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

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

Editorial

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

Research output: Contribution to journal › Editorial › Scientific

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

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

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

Kyläyhteisöt palvelukulutuksen alustana

Translated title of the contribution: : Kyläyhteisöt palvelukulutuksen alustana

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

Research output: Book/Report › Commissioned report › Professional

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

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

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

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

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

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

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

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

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

Kirjastolta uutta tiedonhankinnan opetusta tukemaan opetusta antavien yksiköiden toimintaa

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

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

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

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

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

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

Research output: Contribution to journal › Article › Professional

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

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

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

Study of Aerosols of Black Liquor Combustion

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

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

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

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

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

CFD-Modeling of Fume Formation in Kraft Recovery Boilers

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

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

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

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

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

CFD-modeling of fume formation in kraft recovery boilers

Leppänen, A., Välimäki, E., Oksanen, A. & Tran, H., 2013, In : *TAPPI Journal*. 12, 3, p. 25-32 8 p.

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

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

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

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

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

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

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

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

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

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

Liite 6: Yleistä kaivannaisjätealueista ja patoturvallisuudesta

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

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

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

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

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

Acceptability of contaminated soils and waste materials in landfill structures

Leppänen, M. M. & Kuula, P., 2016.

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

Geo + Ympäristö = Ympäristögeotekniikka?

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

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

Research output: Contribution to journal › Article › Professional

Kokeellinen tutkimus savupiipun läpivientieristeen orgaanisen aineen palamisen vaikutuksesta paloturvallisuuteen

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

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

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

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

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

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

Liikenteen päästötavoitteiden saavuttaminen 2030 - politiikkatoimenpiteiden tarkastelu

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

Research output: Book/Report › Commissioned report › Professional

Yli 60 tonnin yhdistelmät parantaneet kuljetusten tehokkuutta

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

Research output: Contribution to journal › Article › Professional

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

Sähköautoilun edistäminen vaatii latausmahdollisuuksien kehittämistä

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

Research output: Book/Report › Commissioned report › Professional

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

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

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

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

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

The effect of anode potential on bioelectrochemical and electrochemical tetrathionate degradation

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

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

Ballast bed

Luomala, H., 24 Nov 2016

Research output: Other contribution › Scientific

Sleepers

Luomala, H., 24 Nov 2016

Research output: Other contribution › Scientific

Älypölkky, radan monitorointi, kreosoottipölkyn korvaavat vaihtoehdot

Luomala, H., 29 Nov 2016

Research output: Other contribution › Scientific

Tutkimusohjelma Elinkaaritehokas RAta (TERA): Kokonaisvaltainen ote ratarakennetutkimukseen

Luomala, H., 15 Nov 2016

Research output: Other contribution › Scientific

Fate of dissolved organic matter in softwood element-chlorine-free bleached kraft mill fiberline

Luonsi, A., 2010, Tampere: Tampere University of Technology. (Tampereen teknillinen yliopisto. Julkaisu; vol. 878)

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

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

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

Factors affecting the elimination capacity of a passive methane biofilter

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

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

Evaluation of methods for enhancing methane oxidation via increased soil air capacity and nutrient content in simulated landfill soil cover

Maanoja, S. & Rintala, J., 2018, In : *Waste Management*. 82, p. 82-92 11 p.

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

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

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

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

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

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

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

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Sisäilmastoseminaari 2016, Sisäilmayhdistys raportti 34. SIY SISÄILMATIETO OY, p. 13-18 6 p.

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

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

Marjakangas, J. M., Chen, C. Y., Lakaniemi, A. M., Puhakka, J. A., Whang, L. M. & Chang, J. S., 5 Nov 2015, In : Biochemical Engineering Journal. 103, p. 177-184 8 p.

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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

Rakennusten energiankulutuksen perusskenaario Suomessa 2015-2050

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Research output: Book/Report › Commissioned report › Professional

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

Highly compact TiO₂ films by spray pyrolysis and application in perovskite solar cells

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

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Stabilization of fine fraction from landfill mining in leach bed reactor

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

Ravinnevisio: Selvitys Pirkanmaan puhdistamolietteen ja biojätteiden ravinteista ja niiden potentiaalisesta käytöstä

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Research output: Book/Report › Commissioned report › Professional

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

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Research output: Book/Report › Commissioned report › Professional

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

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

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

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

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

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Ecological Sanitation - A Logical Choice? The Development of the Sanitation Institution in a World Society

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

Fluidized bed bioreactor for multiple environmental engineering solutions

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

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

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

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

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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

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

The effect of climate change on freeze-thaw durability of concrete structures in Finland

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Removal of odours in dry toilets by biofiltration

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

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

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

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

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

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

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

Vesi kuntayhteistyön voiteluaineena

Translated title of the contribution: : Vesi kuntayhteistyön voiteluaineena

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Research output: Book/Report › Book › Professional

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

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Research output: Book/Report › Commissioned report › Professional

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

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

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

Rural household electricity load profiles with a load simulation tool

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

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

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

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?)

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Research output: Contribution to journal › Article › Scientific

Pohjavesi, meidän vesi

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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

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

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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

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

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

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

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

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

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

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

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Saari, A., 24 Nov 2016, Sanoma Talotekniikkajulkaisut Oy.

Research output: Other contribution › Scientific

Towards bioproduction of poly- α -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

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

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

Rewiring the wax ester production pathway of acinetobacter baylyi ADP1

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

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

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

Gestao e organizacao dos servicos de saneamento : Abordagens europeias.

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

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

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

Autolaskurin käyttöopas ja laskennan perusteet

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Research output: Book/Report › Commissioned report › Professional

Sähköautoilla suuri vähennys päästöihin - pian myös kilpailukykyiseen hintaan

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

Research output: Book/Report › Commissioned report › Professional

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

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

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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

Valorization of Finnish mining tailings for use in the ceramics industry

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

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

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