

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

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

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

Are there environmental or agricultural benefits in using forest residue biochar in boreal agricultural clay soil?

Soinne, H., Keskinen, R., Heikkinen, J., Hyväluoma, J., Uusitalo, R., Peltoniemi, K., Velmala, S., Pennanen, T., Fritze, H., Kaseva, J., Hannula, M. & Rasa, K., 20 Aug 2020, In : *Science of the Total Environment*. 731, 138955.

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

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

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

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

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

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

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

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

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

Szabó, H. M., 6 Mar 2020, Tampere University. (Tampere University Dissertations; vol. 224)

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

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

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

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

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

Tao, R., Bair, R., Pickett, M., Calabria, J. L., Lakaniemi, A-M., van Hullebusch, E. D., Rintala, J. A. & Yeh, D. H., 2020, In : *Environmental Technology*. 15 p.

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

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

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

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

Rinta-Kanto, J. M. & Timonen, S., 2020, In : *EUROPEAN JOURNAL OF SOIL BIOLOGY*. 97, 7 p., 103168.

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

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

Autolaskurin käyttöopas ja laskennan perusteet

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

Research output: Book/Report › Commissioned report › Professional

Feasibility of Flexible Biomass Utilization in Energy Systems

Pääkkönen, A., 13 Dec 2019, Tampere University. 80 p. (Tampere University Dissertations; vol. 166)

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

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

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

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

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

High rate anaerobic treatment of LCFA-containing wastewater at low temperature

Singh, S., 11 Dec 2019, Tampere University. 139 p. (Tampere University Dissertations)

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

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

Maharaj, B., 10 Dec 2019, Tampere University. 73 p.

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

Koulutus ja tutkimus kehityksen moottorina

Translated title of the contribution: : Education and research driving development

Hukka, J., Katko, T. S. & Pietilä, P., Dec 2019, In : Econetin asakaslehti AQ. 3, p. 13 1 p.

Research output: Contribution to journal › Article › Professional

Joukkoliikenteellä on tärkeä rooli liikenteen päästöjen vähentämisessä

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

Research output: Book/Report › Commissioned report › Professional

Utilising alternative fuels and technologies in city buses

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

Research output: Book/Report › Commissioned report › Professional

Vaihtoehtoisten käyttövoimien hyödyntäminen kaupunkiliikenteen linja-autoissa

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

Research output: Book/Report > Commissioned report > Professional

Highly ductile amorphous oxide at room temperature and high strain rate

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

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

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

Sinkko, H., Hepolehto, I., Lyra, C., Rinta-Kanto, J. M., Villnäs, A., Norkko, A. & Timonen, S., 8 Nov 2019, In : *Scientific Reports*. 9, 16341.

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

Municipal challenges in managing a building with noted health symptoms

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

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

Vetoa vesihuoltopalveluihin täydennyskoulutuksen kautta

Translated title of the contribution: : Continuing education empowering water services development

Inha, L., Juuti, P., Katko, T. S., Rajala, R. & Pietilä, P., 25 Oct 2019, In : *Kuntatekniikka*. 73, 5, p. 6-7 2 p.

Research output: Contribution to journal > Article > Professional

Improved water services cooperation through clarification of rules and roles

Inha, L. M., Katko, T. S. & Rajala, R. P., 19 Oct 2019, In : *Water (Switzerland)*. 11, 10, 2172.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Vesihuollon instituutiot vaativat taitavaa jalkapallopeleä

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

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

Research output: Contribution to journal > Article > Professional

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

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

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

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

Nutrient and organic matter removal from wastewaters with microalgae

Tao, R., 22 May 2019, Tampere University. 153 p. (Tampere University Dissertations)

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

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

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

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

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

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

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

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

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

Genesis of Water supply and sanitation services in Finland

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

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

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

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

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

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

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

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

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

Fluidized bed bioreactor for multiple environmental engineering solutions

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

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

Enhancement in Lifespan of Halide Perovskite Solar Cells

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

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

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

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

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

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

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

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

Highly compact 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.

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

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

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

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

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

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

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

A decade of Finnish engineering education for sustainable development

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

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

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

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

Pastor-Poquet, V., Papirio, S., Trably, E., Rintala, J., Escudié, R. & Esposito, G., 2019, In : INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY.
Research output: Contribution to journal › Article › Scientific › peer-review

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

Rajala, R., Juuti, P., Hukka, J. & Katko, T. S., 2019, *Resilient Water Services and Systems: The Foundation of Well-Being*. IWA Publishing, p. 15-30 16 p.
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

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

Järvinen, H., Honkanen, M., Oja, O., Järvenpää, M. & Peura, P., 2019, In : Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science. 50, 2, p. 816-836 21 p.
Research output: Contribution to journal › Article › Scientific › peer-review

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

Rajala, R., Juuti, P. & Nealer, E., 2019, *Resilient Water Services and Systems: The Foundation of Well-Being*. IWA Publishing, p. 149-162 14 p.
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

Juuti, P., Mattila, H., Rajala, R., Schwartz, K. & Staddon, 2019, *Resilient Water Services and Systems: The Foundation of Well-Being*. IWA Publishing. IWA Publishing, p. 227-236 10 p.
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Resiliency is the key for sustainable water services.

Juuti, P., Mattila, H., Rajala, R., Schwartz, K. & Staddon, C., 2019, *Resilient Water Services and Systems: The Foundation of Well-Being*. IWA Publishing. IWA Publishing, p. 1-8 8 p.
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

Juuti, P. (ed.), Mattila, H. (ed.), Rajala, R. (ed.), Schwartz, K. (ed.) & Staddon, C. (ed.), 2019, IWA Publishing.
Research output: Book/Report › Anthology › Scientific › peer-review

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

Rajala, R. P., Katko, T. S. & Springe, G., 2019, In : Sustainability. 11, 22, 6354.
Research output: Contribution to journal › Article › Scientific › peer-review

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

Hirvonen, J., Jokisalo, J., Heljo, J. & Kosonen, R., 2019, In : International Journal of Sustainable Energy. 38, 7
Research output: Contribution to journal › Article › Scientific › peer-review

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

Tao, R., Bair, R., Lakaniemi, A. M., van Hullebusch, E. D. & Rintala, J. A., 2019, In : *Journal of Applied Phycology*.
Research output: Contribution to journal > Article > Scientific > peer-review

Water security and resilience

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

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

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

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

Editorial

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

Research output: Contribution to journal > Editorial > Scientific

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

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

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

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

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

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

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

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

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

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

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

Design aspects of all atomic layer deposited 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

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

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

Kirja-arviointi:Yliopistomme vaarassa hukkuu byrokraatiaan. 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

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

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

Research output: Contribution to journal › Article › Scientific

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

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

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

Research output: Contribution to journal › Article › Scientific

Characterization and biological stabilization of fine fraction from landfill mining

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

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

UV-Blocking Synthetic Biopolymer from Biomass-Based Bifuran Diester and Ethylene Glycol

Kainulainen, T. P., Sirviö, J. A., Sethi, J., Hukka, T. I. & Heiskanen, J. P., 21 Feb 2018, In : *Macromolecules*. 51, 5, p. 1822-1829 8 p.

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

Puurakenteiden uudelleenkäyttömahdollisuudet

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

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

Research output: Book/Report › Commissioned report › Professional

Asset Life Cycle Management in Finnish Water Utilities

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

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

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

Kapkaupungin pysyvä vesikriisi – ratkaako vesipula, jos lisää vettä pumpataan vuotavaan verkostoon

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

Research output: Contribution to journal › Article › Professional

Mechanical properties of recovered municipal solid waste incineration bottom ash: the influence of aging and changes in moisture content

Sormunen, L. A. & Kolisoja, P., 2018, In : Road Materials and Pavement Design . 19, 2, p. 252-270
Research output: Contribution to journal › Article › Scientific › peer-review

Recycling mine tailings in chemically bonded ceramics - A review

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

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

Recycling potential of post-consumer plastic packaging waste in Finland

Dahlbo, H., Poliakova, V., Mylläri, V., Sahimaa, O. & Anderson, R., 2018, In : Waste Management. 71, p. 52-61

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

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

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

Research output: Book/Report › Commissioned report › Professional

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

Valorization of Finnish mining tailings for use in the ceramics industry

Solismaa, S., Ismailov, A., Karhu, M., Sreenivasan, H., Lehtonen, M., Kinnunen, P., Illikainen, M. & Räisänen, M-L., 2018, In : BULLETIN OF THE GEOLOGICAL SOCIETY OF FINLAND. 90, 1, p. 33-54

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

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

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

Research output: Contribution to journal › Article › Professional

Water Cooperatives in Tampere, Finland: the case of Pispala

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

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

WC-tilat ja -opasteet vain likana silmissämme?

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

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

Research output: Contribution to journal › Article › Professional

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

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

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

Sata vuotta vesihuoltoa Suomessa

Translated title of the contribution: : One hundred years of water services in Finland

Juuti, P., Katko, T. S. & Rajala, R., Dec 2017, In : Vesitalous. 58, 6, p. 13-15 3 p.

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

Understanding sustainable development in Finnish water supply and sanitation services

Takala, A., Dec 2017, In : International Journal of Sustainable Built Environment. 6, 2, p. 501-512

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

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

Carbazole-based small molecule electron donors: Syntheses, characterization, and material properties

Sippola, R. J., Hadipour, A., Kastinen, T., Vivo, P., Hukka, T. I., Aernouts, T. & Heiskanen, J. P., 8 Nov 2017, In : *Dyes and Pigments*. 150, p. 79-88 10 p., j.dyepig.2017.11.014.

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

Yhdyskuntien vesihuolto – kehityksen ja elämän ehto

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

Juuti, P., Katko, T. S. & Rajala, R., 5 Oct 2017, *Miten Suomesta tuli tekniikan maa. Luku 4: Mikä maa, mikä tekniikka?*

Tekniikan Museon julkaisuja 8. : How Finland Became a Country of Technology. Männistö-Funk, T. (ed.). Helsinki:

Tekniikan museo, Vol. 8. p. 197-231 34 p. (Tekniikan Museon julkaisuja 8).

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

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

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

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

Pohjola, J., Turunen, J. & Lipping, T., 3 Sep 2017, p. 439-440. 2 p.

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

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

Effect of N/S ratio on anoxic sulfide oxidizing bioreactors

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

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

Finnish water services: Experiences in global perspective

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

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

The role of inorganics in modelling of biomass gasification

Kontinen, J., Kramb, J., DeMartini, N. & Gomez-Barea, A., 13 Jun 2017, *EUBCE 2017 Online Conference Proceedings*.

Ek, L., Ernrooth, H., Scarlat, N., Grassi, A. & Helm, P. (eds.). ETA-Florence Renewable Energies, p. 443-447 5 p.

(European biomass conference and exhibition proceedings).

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

Liikenteen päästötavoitteiden saavuttaminen 2030 - politiikkatoimenpiteiden tarkastelu

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

Research output: Book/Report › Commissioned report › Professional

Global challenges and role of institutions in water services

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

Research output: Contribution to journal › Article › Professional

Vesihuollon globaalit haasteet ja instituutioiden roolit

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

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

Research output: Contribution to journal › Article › Professional

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

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

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

Toimiva vesihuolto ei ole itsestään selvyyys.

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

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

Research output: Contribution to journal › Article › Professional

Vesihuollon 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

Conversion of Solid Waste into Functional Carbon Materials: A Review

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

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

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

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

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

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

Chasing measurements for real-world emissions of city buses

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

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

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

Energistä utopiaa?

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

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

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

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

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

Historian hajuista tuoksujen tulevaisuuteen: Pääkaupunkiseudun jätevedenpuhdistuksen keskeiset päätökset Espoon näkökulmasta

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

Research output: Other contribution > Scientific

Influence of TiO₂ compact layer precursor on the performance of perovskite solar cells

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

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

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

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

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

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

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

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

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

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

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

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

Sata vuotta Suomen suurimmasta lavantautiepidemiasta

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

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

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

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

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

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

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

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

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

Valkea kaupunki, mustat vedet

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

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

Vesihuolto kaupungistuvissa yhteiskunnissa

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

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

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

Ympäristö- ja vesihistorian tutkimuksesta 2000-luvulla Suomessa

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

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

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

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

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

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

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

Älypölkky, radan monitorointi, kreosoottipölkyn korvaavat vaihtoehdot

Luomala, H., 29 Nov 2016

Research output: Other contribution › Scientific

Ballast bed

Luomala, H., 24 Nov 2016

Research output: Other contribution › Scientific

Näkökulma-kolumni: Putkiremontit kestävät aivan liian kauan

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

Research output: Other contribution › Scientific

Sleepers

Luomala, H., 24 Nov 2016

Research output: Other contribution › Scientific

Tutkimusohjelma Elinkaaritehokas RAta (TERA): Kokonaisvaltainen ote ratarakennetutkimukseen

Luomala, H., 15 Nov 2016

Research output: Other contribution › Scientific

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

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

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

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

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

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

Research output: Contribution to journal › Editorial › Scientific

Application oriented wear testing of wear resistant steels in mining industry

Ojala, N., Nov 2016.

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

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

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

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

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

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

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

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

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

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

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

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

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

Rakennusten energiankulutuksen perusskenaario Suomessa 2015-2050

Translated title of the contribution: : Basic scenario of the energy consumption of building stock in Finland 2015-2050

Mattinen, M., Heljo, J. & Savolahti, M., 13 Sep 2016, Helsinki: Suomen ympäristökeskus. 66 p. (Suomen ympäristökeskuksen raportteja; no. 35/2016)

Research output: Book/Report › Commissioned report › Professional

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Hydrothermal carbonization of pulp mill streams

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

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

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

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

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

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

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

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

Research output: Book/Report › Commissioned report › Professional

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

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

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

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

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

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

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

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

Paradigman jäljillä: Tutkimus vesihuollon ajattelumalleista

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

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

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

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

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

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

Sisäympäristön laadun ja terveellisuuden arviointi energiaparannuskohteissa

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

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

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

Szabo, H. M., Lepistö, R. & Tuhkanen, T., 19 Feb 2016, In : International Journal of Environmental Analytical Chemistry. 96, 3, p. 257-270 14 p.

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

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

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

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

Plasma-Assisted Fabrication of 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

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

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

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

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

Acceptability of contaminated soils and waste materials in landfill structures

Leppänen, M. M. & Kuula, P., 2016.

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

A study on raw, torrefied, and steam-exploded wood: Fine grinding, drop-tube reactor combustion tests in N₂/O₂ and CO₂/O₂ atmospheres, particle geometry analysis, and numerical kinetics modeling

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

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

Characterization of fine fraction mined from two Finnish landfills

Mönkäre, T. J., Palmroth, M. R. T. & Rintala, J. A., 2016, In : Waste Management. 47A, p. 34-39 6 p.

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

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

High rate autotrophic denitrification in fluidized-bed biofilm reactors

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

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

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

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

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

Learning for sustainable water and sanitation services

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

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

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

Mattinen, M. & Heljo, J., 2016, Suomen ympäristökeskus. 23 p. (Reports of the Finnish Environment Institute; no. 26/2016)

Research output: Book/Report > Commissioned report > Professional

Modelling of anisotropic fatigue

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

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

Modelling of plastic culvert and road embankment interaction in 3D

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

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

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

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

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

Negotiating 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

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

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

Jain, R., Dominic, D., Jordan, N., Rene, E. R., Weiss, S., van Hullebusch, E. D., Hübner, R. & Lens, P. N. L., 2016, In : *Chemical Engineering Journal*. 284, p. 917-925

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

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

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

Espinosa-Ortiz, E. J., Shakya, M., Jain, R., Rene, E. R., van Hullebusch, E. D. & Lens, P. N. L., 2016, In : *Environmental Science and Pollution Research*. 23, 21, p. 21619–21630 12 p.

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

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

Teräsrumpujen uudet korjausmenetelmät: Halkaistu sisäputki, puolipohjaus ja pohjan betonointi

Kalliainen, A., Haakana, V., Korhonen, M., Mäkinen, J. & Kolisoja, P., 2016, *Liikennevirasto*. 70 p. (Liikenneviraston tutkimuksia ja selvityksiä)

Research output: Book/Report › Book › Professional

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

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

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

Use of diluted urine for cultivation of *Chlorella vulgaris*

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

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

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

Production of Oleaginous Microbial Biomass by Reusing Wastewaters

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

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

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

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

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

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

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

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

Airtightness of residential buildings in Finland

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Catalytic effect of Ca and K on 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

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

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

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

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

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

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

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

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

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

Short Global History of Fountains

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

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

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

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

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

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

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

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

O'Neill, M., 7 Mar 2015, Tampere University of Technology. 236 p. (Tampere University of Technology. Publication; vol. 1284)

Research output: Book/Report › Doctoral thesis › Monograph

Fluidized-bed denitrification of mining water tolerates high nickel concentrations

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

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

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

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

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

Näkökulma: Maltti on valttia Suomellekin nollaenergiatavoitteita asetettaessa

Vinha, J., 13 Feb 2015, In : *Rakennuslehti*. 6

Research output: Contribution to journal › Article › General public

Appropriate pricing policy needed worldwide for improving water services infrastructure

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

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

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

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

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

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

Grigonyte, J., Sippula, O., Tissari, J., Laitinen, A., Keskinen, J., Kortelainen, M., Lamberg, H. & Jokiniemi, J., 2015, *European Aerosol Conference 2015: EAC 2015, Milan, Italy*. 2COA_P021

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

Betonielementtien uudelleenkäyttömahdollisuudet

Translated title of the contribution: : Betonielementtien uudelleenkäyttömahdollisuudet

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

Research output: Book/Report > Commissioned report > Professional

Biological Nitrogen Removal from Acidic, Heavy-metal Containing Waters

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

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

Electricity generation from tetrathionate in microbial fuel cells by acidophiles

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

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

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

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

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

Factors affecting the elimination capacity of a passive methane biofilter

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

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

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

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

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

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

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

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., Elijosute, 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

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

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

Konvergenssi ja divergenssi ongelmatyyppien luonnehtijoina: Esimerkkinä vesihuoltoinfrastruktuurin ikääntyminen

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

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

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

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

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

Metals removal and recovery in bioelectrochemical systems: A review

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

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

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

Pt-functionalized Fe₂O₃ photoanodes for solar water splitting: the role of hematite nano-organization and the platinum redox state

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

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

Resilient Asset Management and Governance Fordeteriorating Water Services Infrastructure

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

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

Simulointi nopeuttaa käyttöiän määrittystä

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

Research output: Contribution to journal > Article > Professional

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

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

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

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

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

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

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

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

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

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

Tighter contracts or more trust? Outsourcing in Finnish water utilities

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

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

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

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

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

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

Vapor phase processing of α -Fe₂O₃ photoelectrodes for water splitting: An insight into the structure/property interplay

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

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

Vesiosuuskunnat - minä ne tulisi nähdä?

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

Research output: Contribution to journal › Article › Professional

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

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

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

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

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

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

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

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

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

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

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

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

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

Ciranna, A., Pawar, S. S., Santala, V., Karp, M. & van Niel, E. W. J., 28 Mar 2014, In : *Microbial Cell Factories*. 13, 1, 48.
Research output: Contribution to journal > Article > Scientific > peer-review

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

Santala, S., Efimova, E., Koskinen, P., Karp, M. T. & Santala, V., 21 Mar 2014, In : *ACS Synthetic Biology*. 3, 3, p. 145-151 7 p.
Research output: Contribution to journal > Article > Scientific > peer-review

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

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

Anaerobic digestion of autoclaved and untreated food waste

Tampio, E., Ervasti, S., Paavola, T., Heaven, S., Banks, C. & Rintala, J., 2014, In : *Waste Management*. 34, 2, p. 370-377 8 p.
Research output: Contribution to journal > Article > Scientific > peer-review

An experimental study and numerical modeling of combusting two coal chars in a drop-tube reactor: A comparison between N₂/O₂, CO₂/O₂, and N₂/CO₂/O₂ atmospheres

Tolvanen, H. & Raiko, R., 2014, In : *Fuel*. 124, p. 190-201 12 p.
Research output: Contribution to journal > Article > Scientific > peer-review

ASROCKS-Hankkeen heikkouuttomenetelmien vertailu

Translated title of the contribution: : ASROCKS-Hankkeen heikkouuttomenetelmien vertailu
Tarvainen, T., Hatakka, T., Backman, B., Ketola, T. & Härmä, P., 2014, *GEOLOGIAN TUTKIMUSKESKUS*. 13 p.
Research output: Book/Report > Commissioned report > Professional

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

Kaarela, O. E., Härkki, H. A., Palmroth, M. R. T. & Tuhkanen, T. A., 2014, In : *Environmental Technology*. p. 681-692 12 p.
Research output: Contribution to journal > Article > Scientific > peer-review

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

Characterization of fine fraction from landfill mining for evaluating methane potential

Mönkäre, T., Palmroth, M. & Rintala, J., 2014, *Fifth International Symposium on Energy from Biomass and Waste, Venice 2014 Proceedings, Island of San Servolo, Venice, Italy, 17-20 November 2014*. Italy: CISA Publisher
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

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

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

E-sail test payload of the ESTCube-1 nanosatellite

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

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

Katko, T. S. & Juuti, P. S., 2014, *A History of Water: Water and Urbanization: Series III, Volume 1*. Tvedt, T. & Oestigaard, T. (eds.). London: I. B. Tauris, p. 498-519 22 p.
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

Inverse infrastructures: self-organization in the water services

Heino, O. & Anttiroiko, A-V., 2014, In : Water Policy. p. 299-315 17 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Kohti hajautettua infrastruktuuripoliittikkaa? Paikalliset vesiosuuskunnat perusrakenteiden tuottajina

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

Heino, O. & Anttiroiko, A-V., 2014, In : Maaseudun uusi aika. 22, 3, p. 38-50 13 p.
Research output: Contribution to journal › Article › Scientific › peer-review

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

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

Rajala, R., Juuti, P. & Katko, T., 2014, In : Vesitalous. 51, 1, p. 33-34 2 p.
Research output: Contribution to journal › Article › Scientific

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

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

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

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

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

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

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

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

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

Pynnönen, S. T. & Tuhkanen, T. A., 2014, In : *Journal of Separation Science*. 37, 3, p. 219-227 9 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Stabilization of fine fraction from landfill mining in leach bed reactor

Mönkäre, T., Palmroth, M. R. T. & Rintala, J., 2014, *Proceedings SUM 2014, Second Symposium on Urban Mining, Bergamo, Italy, 19-21 May, 2014 : Organised by IWWG - International Waste Working Group*. CISA Publishers, p. 1-11 11 p.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific

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

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

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

Opening of the seminar

Katko, T. S., 29 Oct 2013.
Research output: Other conference contribution > Paper, poster or abstract > Scientific

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

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

Takala, A. & Korhonen-Yrjänheikki, K., 2013, In : *Science and Engineering Ethics*. 19, 4, p. 1557-1569
Research output: Contribution to journal > Article > Scientific > peer-review

Bioenergy consumption and biogas potential in Cambodian households

Mustonen, S., Raiko, R. & Luukkanen, J., 2013, In : *Sustainability*. 5, 5, p. 1875-1892 17 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Biofiltration of odours in dry toilet air

Palmroth, M. R. T., Kolha, V., Ramos Garcia, A., Richter, C., Crosnier, F., Perrier, L. & Tuhkanen, T., 2013, *Biotechniques for air pollution control and bioenergy*. Malhautier, L. (ed.). Paris: Presses des MINES, p. 291-297 7 p.
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

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

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

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

Developing community water services and cooperation in Finland and the South

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

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

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

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

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

Epilogue

Juuti, P. S. (ed.), Katko, T. S. (ed.) & Schwartz, K. (ed.), 2013, IWA Publishing. 5 p.

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

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

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

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

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

Pynnönen, S. (ed.) & Tuhkanen, T. (ed.), 2013, Tampere: Tampere University of Technology. 156 p.

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

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

Halpaa eli hyvää - minkälaisia merkityksiä vesihuoltoala rakentaa itsestään

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

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

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

Hanaa! Suomen vesihuolto - kehitys ja yhteiskunnallinen merkitys

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

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

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

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

Impact of heavy metals on denitrification of simulated mining wastewaters

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

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

Integration of water and wastewater utilities

Katko, T. S., Kurki, V. O., Juuti, P. S., Rajala, R. P. & Seppälä, O. T., 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

Jätehuollon jakautuminen osamarkkinoihin ja yritystoiminta

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

Kallio, O., Valkama, P., Siitonen, P. & Heino, O., 2013, *Markkinainnovaatiot yhdyskuntajätehuollossa : tutkimus jätehuoltopalvelujen markkinoiden evoluutiosta, sovelluksista ja jännitteistä kunnallisen ja yksityisen sektorin rajapinnassa*. Valkama, P. (ed.). Tampere: Tampereen yliopisto, Johtamiskorkeakoulu, p. 99-113 15 p.

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

Jätehuollon, -politiikan ja -lainsäädännön institutionaalinen kuvaus

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

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

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

Jätehuollon tekniset vaihtoehdot

Translated title of the contribution: : Jätehuollon tekniset vaihtoehdot

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

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

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

Käänteiset infrastruktuurit ja integroiva infrastruktuuripolitiikka

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

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

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

Käänteiset perusrakenteet : Suuntana hajautettu infrastruktuuripolitiikka?

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

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

Research output: Contribution to journal › Article › Professional

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

Kylien palvelutuotantoedellytyksistä erityisesti julkisten palvelujen näkökulmasta tarkasteltuna

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

Valkama, P., Heino, O., Salonen, A. & Laukka, A., 2013, Tampere: Maaseutupolitiikan yhteistyöryhmä, YTR. 9 p. (Maaseutupolitiikan yhteistyöryhmän julkaisuja; no. 6)
Research output: Book/Report > Commissioned report > Professional

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

Nanoscale Surface Processing of Extrusion Coated Substrates with Atmospheric Plasma Technology

Lahti, J., 2013.

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

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

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

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

Research output: Contribution to journal > Article > Scientific

Päätelmät yhdyskuntajätehuollon markkinainnovaatioista - taustat, kiistat ja sovellukset

Translated title of the contribution: : Päätelmät yhdyskuntajätehuollon markkinainnovaatioista - taustat, kiistat ja sovellukset

Valkama, P., Heino, O. & Kallio, O., 2013, *Markkinainnovaatiot yhdyskuntajätehuollossa : tutkimus jätehuoltopalvelujen markkinoiden evoluutiosta, sovelluksista ja jännitteistä kunnallisen ja yksityisen sektorin rajapinnassa*. Valkama, P. (ed.). Tampere: Tampereen yliopisto, Johtamiskorkeakoulu, p. 159-170 12 p.

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

Paradigma alternativo : O papel das cooperativas e das autoridades locais

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

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

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

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

Prologue

Juuti, P. S. (ed.), Katko, T. S. (ed.) & Schwartz, K. (ed.), 2013, IWA Publishing. 3 p.

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

Safety of lead water pipes: history and present

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

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

Sidosryhmien näkemykset jätehuollon markkinoistumisesta

Translated title of the contribution: : Sidosryhmien näkemykset jätehuollon markkinoistumisesta

Kallio, O., Heino, O., Valkama, P. & Autero, A., 2013, *Markkinainnovaatiot yhdyskuntajätehuollossa : tutkimus jätehuoltopalvelujen markkinoiden evoluutiosta, sovelluksista ja jännitteistä kunnallisen ja yksityisen sektorin rajapinnassa*. Valkama, P. (ed.). Tampere: Tampereen yliopisto, Johtamiskorkeakoulu, p. 144-158 15 p.

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

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

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

Tuotanto- ja operointi-innovaatiot - case vesihuolto

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

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

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

Tutkimuksen teoreettinen viitekehys

Translated title of the contribution: : Tutkimuksen teoreettinen viitekehys

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

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

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

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

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

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

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

Waste water treatment by multi-stage biofilm processes : Results of the VESITURVA project

Mononen, T., Coloma, S., Romantschuk, M., Vikman, M., Kapanen, A., Lehtonen, A., Saario, E., Itävaara, M., Malinen, E., Kostia, S. & Tuhkanen, T., 2013, Espoo: VALTION TEKNILLINEN TUTKIMUSKESKUS. 74 p. (VTT Technology; no. 98)

Research output: Book/Report › Commissioned report › Professional

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

Education, Research and Capacity Building for Water Services

Katko, T., 20 Sep 2012.

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

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

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

Research output: Contribution to journal › Article › Professional

Bacterial community transcription patterns during a marine phytoplankton bloom

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

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

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

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

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

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

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

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

Career paths of experts on water supply and sanitation services

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

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

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

Coal char combustion in O₂/N₂ and O₂/CO₂ conditions in a drop tube reactor: an optical study

Rodriguez Avila, M., Honkanen, M., Raiko, R. & Oksanen, A., 2012, In : *Industrial Combustion*. p. 1-22 22 p., 201201.

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

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

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

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

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

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

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

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

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

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

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

Environmental impact of micropollutants present in urine

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Insenttiivit julkisen sektorin innovaatiotoiminnan edistämisen välineinä. Esimerkkinä Georgian osavaltion palvelu-uudistus

Translated title of the contribution: : Insenttiivit 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

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

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

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

Metering the quality of water supply and sewage network maintenance services

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

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

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

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

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

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

Occupational Exposure to Extremely Low Frequency Electric Fields in Office Work

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

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

Part V: Comparative Analysis of the Omnipresent Water Fountains

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

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

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

Removal of odours in dry toilets by biofiltration

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

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

"Rocky Fountains" of Keciören, Turkey

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

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

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

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

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

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

Barcelona: International Association of Technology, Education and Development IATED, p. 1586-1592 (International Conference on Education and New Learning Technologies).

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

The Mermaid of Helsinki, Finland

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

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

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

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

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

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

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

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

Tulevaisuuden vesiosaajat

Translated title of the contribution: : Tulevaisuuden vesiosaajat

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

Research output: Contribution to journal › Article › Scientific

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

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

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

Ulkoistaminen apuväline vesihuoltoverkostojen kunnossapitoon?

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

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

Research output: Contribution to journal › Article › Professional

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

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

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

Water Fountains in the Worldscape

Hynynen, A. J. (ed.), Juuti, P. S. (ed.) & Katko, T. S. (ed.), 2012, Kangasala: International Water History Association and Kehrämedia Inc.

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

Water - The Most Important Subject of the World

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

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

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

Adjustable wettability of paperboard by liquid flame spray nanoparticle deposition

Stepien, M., Saarinen, J. J., Teisala, H., Tuominen, M., Aromaa, M., Kuusipalo, J., Mäkelä, J. M. & Toivakka, M., 2011, In : *Applied Surface Science*. 257, 6, p. 1911-1917

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

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

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

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

Biogenic hydrogen and methane production from reed canary grass

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

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

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

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

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

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

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

Heino, O. A., Takala, A. J. & Katko, T. S., 2011, In : *E-Water*. p. 1-20 20 p., 2011/01.

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

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

Developing and testing characterization methods for droplet combustion - part II

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

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

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

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

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

Hyvän veden ja hyvien yhteyksien kaupunki - Riihimäen Veden historia

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

Juuti, P., Rajala, R., Pietilä, P. & Katko, T., 2011, In : *Vesitalous*. 52, 5, p. 36-40
Research output: Contribution to journal > Article > Scientific > peer-review

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

Szabo, H. M. & Tuhkanen, T., 2011, *Survival and Sustainability : Environmental concerns in the 21st Century*. Huseyin, G., Umut, T. & James, W. L. (eds.). Springer Berlin Heidelberg, p. 893-897 (Environmental Earth Sciences).
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

Ja alussa oli vesi

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 15-18
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

Kasvun ja veden kausi – I vesilaitoksesta II maailmansotaan

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 51-74
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

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

Laajentumisen aika

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 75-118
Research output: Chapter in Book/Report/Conference proceeding > Chapter > Scientific > peer-review

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

Hukka, J. J., Katko, T. S. & Pietilä, P. P., 2011, In : *Rakennustekniikka*. 66, 2, p. 58-61
Research output: Contribution to journal > Article > Professional

L'oxydation chimique pour la remediation des sols contamines par des composes recalitrants. Cas de la chlordecone

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

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

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

Luminescent bacteria-based sensing method for methylmercury specific determination

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

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

Lyhyestä tiede kaunis?

Translated title of the contribution: : Lyhyestä tiede kaunis?

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

Research output: Contribution to journal › Article › Scientific

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

Stenroos, M. & Katko, T. S., 2011, In : *Water*. 3, 2, p. 667-681

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

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

Occupational Exposure to Electric and Magnetic Fields While Working at Switching and Transforming Stations of 110 kV

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

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

Occupational exposure to electric fields and 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The evolving role of water co-operatives in Finland

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

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

The factors controlling combustion and gasification kinetics of solid fuels

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

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

The Fountain A Harbinger of a New Era in Case Tampere

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

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

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

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

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

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 prosessitekniiikan laitos. Raportti; vol. 192)

Research output: Book/Report › Commissioned report › Professional

Uuden vuosituhatosen tiennäyttäjät – HS-Veden alkutaival

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

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

Values and Attitudes in Engineering Education

Korhonen-Yrjänheikki, K., Takala, A. & Mielityinen, I., 2011, *It's just People with People - Views of Corporate Social Responsibility. Aalto University Publication Series Crossover*. Lappalainen, P. (ed.). p. 65-83
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific

Vesihuollon alkutaival – kehitys 1910 asti

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 19-50
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Vesihuoltoa kuntiin

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 119-176
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Vesi on parasta kylmänä – loppusanat

Juuti, P. & Rajala, R., 2011, *Vinttikaivosta vesiyhtiöön*. Juuti, P. & Rajala, R. (eds.). Saarijärvi: TamPub, p. 223-231
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

Water Fountains in the Cityscape

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

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

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

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

Suomalainen, P., Korpinen, L. & Pääkkönen, R., 2010, In : *Journal of Usability Studies*. 5, 3, p. 111-123 13 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Adjustable hydrophilicity and hydrophobicity on paperboard by liquid flame spray process

Stepien, M., Saarinen, J. J., Teisala, H., Tuominen, M., Aromaa, M., Kuusipalo, J., Mäkelä, J. & Toivakka, M., 2010, *2010 TAPPI Advanced Coating Fundamentals Symposium, October 11-13, 2010, Munich, Germany*. p. 6 p
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

An example of exposure to magnetic fields in the home

Österholm, L., Pääkkönen, R., Lehtelä, R., Holm, A. & Korpinen, L., 2010, *Bioelectromagnetics Society 32nd Annual Meeting (BEMS), June 14-18, 2010, Seoul, Korea*. p. 1-2 2 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Asiakkaat, verkostot ja henkilöstö

Rajala, R., 2010, *Näkymätönt Porii: Porin Veden historia*. Juuti, P., Katko, T., Louekari, S. & Rajala, R. (eds.). TamPub, p. 370-491
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

Asteittain kohti keskitettyä jätevedenpuhdistusta

Translated title of the contribution: : Asteittain kohti keskitettyä jätevedenpuhdistusta
Katko, T., 2010, *Näkymätönt Porii. Porin Veden historia*. Juuti, P., Katko, T., Louekari, S. & Rajala, R. (eds.). p. 312-369
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

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

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

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

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

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

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

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

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

Developing and testing characterization methods for droplet combustion - Part I

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

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

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

Teisala, H., Tuominen, M., Aromaa, M., Mäkelä, J. M., Stepien, M., Saarinen, J. J., Toivakka, M. & Kuusipalo, J., 2010, In : *Surface and Coatings Technology*. 205, 2, p. 436-445

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

Editorial Note: "Pasts and Futures of Water"

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

Research output: Contribution to journal > Article > Scientific

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

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

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

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

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

Finnish engineering education for the benefit of people and environment

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

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

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

Geometry of plate fins for maximizing heat transfer

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

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

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

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

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

Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia

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

Juuti, P., Rajala, R. P., Pietilä, P. E. & Katko, T. S., 2010, *Riihimäen Vesi*. 336 p.

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

Hyvien yhteyksien ja hyvän veden kaupunki

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

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

Ikääntyvä infra - vesihuollon keskeisin haaste

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

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

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

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

Integration of water and wastewater utilities

Katko, T. S., Kurki, V. O., Juuti, P. S., Rajala, R. P. & Seppälä, O. T., 2010, In : *Journal American Water Works Association*. 102, 9, p. 62-70

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

Jätevedenpuhdistuksen ja viemäroinnin vaiheita Helsingissä

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

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

Johdanto: vesirikas Riihimäki

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

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

Kaivoista ja käymälöistä kohti kunnallista vesihuoltoa

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

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

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

Kirjastolta uutta tiedonhankinnan opetusta tukemaan opetusta antavien yksiköiden toimintaa

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

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

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

Kohti puhtaampaa Itämerta

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

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

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

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

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

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

Mihin jätevedenpuhdistusta tarvitaan?

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

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

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

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

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

Näkymätönt Porrii. Porin veden historia

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

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

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

Occupational exposure to electric and magnetic fields during work tasks at 110 kV substations in the Tampere region

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

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

Pääkaupunkiseudun moderni jätevedenpuhdistus ja Viikinmäen puhdistamo

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

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

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

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

Pintavedestä pohjaveteen ja tekopohjaveteen

Translated title of the contribution: : Pintavedestä pohjaveteen ja tekopohjaveteen

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

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

Pohjavesi, meidän vesi

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

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

"Poika, nyt lähdettiin hommiin" - vesilaitos syntyy

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

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

Requirements for rainfall retention and storage in cold climate

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

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

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

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

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

Rural household electricity load profiles with a load simulation tool

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

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

Sanitation, water and health

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

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

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

Korpinen, L. & Pääkkönen, R., 2010, In : *Applied Ergonomics*. 42, p. 85-90

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

Tavoitteena puhdas asuinympäristö

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

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

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

Szabo, H. & Tuhkanen, T., 2010, In : *Chemosphere*. 80, 7, p. 779-786

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

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 Elektrotehnika*. 102, 6, p. 75-78

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

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

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

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

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

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

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

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

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

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

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

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

Use of analytical expressions of convection in conjugated heat transfer problems

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

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

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

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

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

Verkoston varrella

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

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

Vesihuollon haasteet ennen ja nyt

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

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

Vesihuollon historia pähkinänkuoressa

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

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

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

Vesi kuntayhteistyön voiteluaineena

Translated title of the contribution: : Vesi kuntayhteistyön voiteluaineena

Pietilä, P., Katko, T. & Kurki, V., 2010, Helsinki: Kaks - Kunnallisan kehittämistäitiö. 111 p. (Kunnallisan kehittämistäitiö tutkimusjulkaisut; vol. 62)

Research output: Book/Report › Book › Professional

Vesilinna, Riihimäen maamerkki

Juuti, P. & Rajala, R., 2010, *Hyvän veden ja hyvien yhteyksien kaupunki : Riihimäen Veden historia*. Juuti, P., Rajala, R., Pietilä, P. & Katko, T. (eds.). TamPub, p. 148-183

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

Vesitalous - monipuolisesti vesialalta

Translated title of the contribution: : Vesitalous - monipuolisesti vesialalta

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

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

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

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

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

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

Water, policy and governance

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

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

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

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

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

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

Ensimmäiset fuusiosuunnitelmat

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

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