

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

Weijio, 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

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

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

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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

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

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Joukkoliikenteellä on tärkeä rooli liikenteen päästöjen vähentämisessä

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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.

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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.

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

Vetoa vesihuoltopalveluihin täydennyskoulutuksen kautta

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Research output: Contribution to journal › Article › Professional

Improved water services cooperation through clarification of rules and roles

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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

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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

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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

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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

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

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

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

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

Vesihuollon instituutiot vaativat taitavaa jalkapallopeiliä

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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)

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Hydrogen sulfide removal from synthetic biogas using anoxic biofilm reactors

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

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

Vesihuolto yhdyskuntien ympäristön turvaajana: uskomuksia ja todellisuuksia

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Research output: Contribution to journal > Article > Professional

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

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

Genesis of Water supply and sanitation services in Finland

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

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

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

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

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

Enhancement in Lifespan of Halide Perovskite Solar Cells

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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

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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

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

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

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

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

A decade of Finnish engineering education for sustainable development

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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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Editorial

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Research output: Contribution to journal > Editorial > Scientific

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

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Sähköautoilun edistäminen vaatii latausmahdollisuuksien kehittämistä

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

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

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

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

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

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

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

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

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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

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

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Research output: Book/Report › Commissioned report › Professional

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

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

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Research output: Contribution to journal › Article › Professional

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

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

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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

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Research output: Book/Report › Commissioned report › Professional

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

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

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Research output: Contribution to journal › Article › Professional

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

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Research output: Contribution to journal › Article › Professional

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

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

Sata vuotta vesihuoltoa Suomessa

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

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

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Research output: Contribution to journal > Article > Professional

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

Conversion of Solid Waste into Functional Carbon Materials: A Review

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

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

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

Historian hajuista tuoksujen tulevaisuuteen: pääkaupunkiseudun jätevedenpuhdistuksen keskeiset päätökset Espoon näkökulmasta

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

Historian hajuista tuoksujen tulevaisuuteen: Pääkaupunkiseudun jätevedenpuhdistuksen keskeiset päätökset Espoon näkökulmasta

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Research output: Other contribution > Scientific

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

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

Kirja-arviointi: Kuinka vesiensuojelu saatiin pääosin kuntoon?

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Research output: Contribution to journal > Article > Scientific

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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

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

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

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

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

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

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

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

Vesihuolto kaupungistuvissa yhteiskunnissa

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Ympäristö- ja vesihistorian tutkimuksesta 2000-luvulla Suomessa

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

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

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

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

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Research output: Other contribution › Scientific

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Research output: Other contribution › Scientific

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

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

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

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Research output: Book/Report › Commissioned report › Professional

Recent advances in nutrient removal and recovery in biological and bioelectrochemical systems
Nancharaiyah, Y. V., Venkata Mohan, S. & Lens, P. N. L., Sep 2016, In : Bioresource Technology. 215, p. 173-185
Research output: Contribution to journal › Review Article › Scientific › peer-review

Combining mineral fractions of recovered MSWI bottom ash: improvement for utilization in civil engineering structures
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Glazed spaces: A simplified calculation method for the evaluation of energy savings and interior temperatures
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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.
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Research output: Book/Report › Doctoral thesis › Collection of Articles

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

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Research output: Book/Report › Commissioned report › Professional

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Research output: Book/Report › Book › Professional

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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

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

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

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

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Research output: Book/Report > Commissioned report > Professional

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

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

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

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Konvergenssi ja divergenssi ongelmatyyppien luonnehtijoina: Esimerkkinä vesihuoltoinfrastruktuurin ikääntyminen

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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

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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

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

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Research output: Contribution to journal › Article › Professional

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

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

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

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

Vesiosuuskunnat - minä ne tulisi nähdä?

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Water services heritage and institutional diversity

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

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Research output: Book/Report > Commissioned report > Professional

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

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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.

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

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

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

ASROCKS-Hankkeen heikkouuttomenetelmien vertailu

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Inverse infrastructures: self-organization in the water services

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

Kohti hajautettua infrastruktuuripolitiikkaa? Paikalliset vesiosuuskunnat perusrakenteiden tuottajina

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

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

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

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Research output: Contribution to journal › Article › Professional

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

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

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

Halpaa eli hyvää - minkälaisia merkityksiä vesihuoltoala rakentaa itsestään

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Research output: Contribution to journal > Article > Professional

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Research output: Book/Report > Commissioned report > Professional

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

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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

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

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

Paradigma alternativo : O papel das cooperativas e das autoridades locais

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

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Safety of lead water pipes: history and present

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

Sidosryhmien näkemykset jätehuollon markkinoistumisesta

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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

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

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

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?

Katko, T. S., 2013, In : *Kuntatekniikka*. 5, p. 14-16 3 p.

Research output: Contribution to journal › Article › Professional

Vesihuollossa muhii aikapommi

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Research output: Contribution to journal › Article › General public

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Research output: Contribution to journal › Article › Professional

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

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

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
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

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Palmroth, M. R. T., Kolha, V. A., Ramos Garcia, A., Perrier, L., Richter, C. & Tuhkanen, T. A., 2012, *ECO STP, EcoTechnologies for Wasterwater Treatment, Technical, Environmental & Economic Challenges, Santiago de Compostela, Spain, 25-27 June 2012*. International Water Association IWA, p. 1-4 4 p. (EcoTechnologies for Wasterwater Treatment, IWA International Conference).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

"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

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

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

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

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?

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

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

Research output: Contribution to journal › Article › Professional

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

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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

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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 compustion - part II

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

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

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

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

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

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

Research output: Contribution to journal › Article › Professional

Laajentumisen aika

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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 composees recalcitrants. Cas de la chlordecone

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

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

Luminescent bacteria-based sensing method for methylmercury specific determination

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

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

Lyhyestä tiede kaunis?

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

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

Korpinen, L. & Alanko, T., 2011, Tampereen teknillinen yliopisto. 120 p. (Tampereen teknillinen yliopisto, Energia- ja prosessitekniiikan 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

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

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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 EAEIE Annual Conference - EAEIE 2011, Maribor, Slovenia, June 13-15,2011*. Maribor: University of Maribor, Faculty of Electrical Engineering and Computer Science, p. 119-123 (EAEIE Annual Conference).

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

Työntekijöiden altistuminen sähkö- ja magneettikentille 110 kV sähköasemien työtehtävissä

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Research output: Book/Report › Commissioned report › Professional

Uuden vuosituhannen tiennäyttäjät – HS-Veden alkutaival

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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

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

Vesihuoltoa kuntiin

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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

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

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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

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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

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

Asteittain kohti keskitettyä jätevedenpuhdistusta

Katko, T., 2010, *Näkymätöntä 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

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Research output: Contribution to journal > Article > Scientific

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

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

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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

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

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Research output: Contribution to journal > Article > Scientific

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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

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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

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

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

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

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

Geometry of plate fins for maximizing heat transfer

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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

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

Hyvien yhteyksien ja hyvän veden kaupunki

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

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

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

Integration of water and wastewater utilities

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

Jätevedenpuhdistuksen ja viemäröinnin vaiheita Helsingissä

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

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

Johdanto: vesirikas Riihimäki

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

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

Kinetics of biomass pyrolysis

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

Kirjastolta uutta tiedonhankinnan opetusta tukemaan opetusta antavien yksiköiden toimintaa

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

Kohti puhtaampaa Itämerta

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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

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

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

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

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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

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Research output: Contribution to journal › Article › General public

Perfusion characterization using flow simulations and μ PIV measurements

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

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

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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

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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

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

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

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

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"

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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

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

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

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

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

Vesihuollon ylikunnalliset sopimukset lisääntymässä

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Research output: Contribution to journal › Article › Professional

Vesi kuntayhteistyön voiteluaineena

Pietilä, P., Katko, T. & Kurki, V., 2010, Helsinki: Kaks - Kunnallisan kehittämissäätiö. 111 p. (Kunnallisan kehittämissäätiö 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

Jaatinen, T., Katko, T. & Pynnönen, S., 2010, In : *Vesitalous*. 6, p. 45-47

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

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