

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

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

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

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

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

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

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

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

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

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

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., Konttinen, J. & Kojo, M., 1 Sep 2019, In : Sustainability. 11, 17, 4750.

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

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

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

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

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

Aalto, S. L., Saarenheimo, J., Arvola, L., Tirola, 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

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

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

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

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

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

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

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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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 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

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

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

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

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
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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

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

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

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

Mal, J., Nancharaiah, 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

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

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

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

Vivo, P., Ojanpeřä, A., Smätt, 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

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

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

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

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

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

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

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

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

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. & Yayehyirad, 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

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

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

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

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

Rozsak, 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

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

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

Mal, J., Nancharajah, 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

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

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

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

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

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

High rate autotrophic denitrification in fluidized-bed biofilm reactors

Zou, G., Papiro, 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

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

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

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

Research output: Contribution to journal > Article > 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Kaarela, O. E., Härkki, H. A., Palmroth, M. R. T. & Tuhkanen, T. A., 2014, In : Environmental Technology. p. 681-692 12 p.

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

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

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

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

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

Impact of heavy metals on denitrification of simulated mining wastewaters

Zou, G., Ylisen, 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

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

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

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

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

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

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

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

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

Korpinen, H. & Raiko, R., 2013, In : International Journal of Energy Research. p. 1-11 11 p.

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

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

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

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

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

Water - The Most Important Subject of the World

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

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

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

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

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

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

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

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

Translated title of the contribution: : Insentiivit julkisen sektorin innovaatiotoiminnan edistämisen välineinä. Esimerkkinä Georgian osavaltion palvelu-uudistus

Anttiroiko, A-V. & Heino, O., 2012, In : Työelämän tutkimus. 10, 3, p. 298-305 8 p.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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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

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

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

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

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

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

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

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

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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

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

Hieta-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

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

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

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

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

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

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

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

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

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

Mental symptoms and the use of new technical equipment

Korpinen, L. & Pääkkönen, R., 2009, In : International Journal of Occupational Safety and Ergonomics. 15, 4, p. 385-400

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

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

Vesiyhtymien toiminnan kehittäminen

Translated title of the contribution: : Vesiyhtymien toiminnan kehittäminen

Takala, A., Hukka, J. J., Katko, T. S. & Pietilä, P. E., 2008, In : Vesitalous. 3, p. 14-18

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

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

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

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

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

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

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

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

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

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

Detecting bioavailable toxic metals and metalloids from natural water samples using luminescent sensor bacteria

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

Water supply and sanitation as an entry point to human development: Vision21- Knowledge synthesis.

Hukka, J. & Katko, T. S., 1999, In : Vision21- Knowledge synthesis..

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

A recombinant Escherichia coli sensor strain for the detection of tetracyclines

Korpela, M. T., Kurittu, J. S., Karvinen, J. T. & Karp, M. T., 1 Nov 1998, In : Analytical Chemistry. 70, 21, p. 4457-4462 6 p.

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

The need for "champions" in rural water supply

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

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

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

Recycling mine tailings in chemically bonded ceramics - A review

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

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

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

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

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

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

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

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

Metals removal and recovery in bioelectrochemical systems: A review

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

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

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

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

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

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

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

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.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Yhdyskuntajätehuollon markkinainnovaatiot tutkimuskaupungeissa

Translated title of the contribution: : Yhdyskuntajätehuollon markkinainnovaatiot tutkimuskaupungeissa

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

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

Sidosryhmien näkemykset jätehuollon markkinoistumisesta

Translated title of the contribution: : Sidosryhmien näkemykset jätehuollon markkinoistumisesta

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

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

Safety of lead water pipes: history and present

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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

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

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

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

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

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

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

Tutkimuksen teoreettinen viitekehys

Translated title of the contribution: : Tutkimuksen teoreettinen viitekehys

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

Ja alussa oli vesi

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

Vesihuollon alkutaival – kehitys 1910 asti

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

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Pintavedestä pohjaveteen ja tekopohjaveteen

Translated title of the contribution: : Pintavedestä pohjaveteen ja tekopohjaveteen

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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

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

Loppuluku – haasteita riittää tulevaisuuteen

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

Palo, jano, terveys, hygienia

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Virta: Kajaani, kaupunki joen varrella

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Saasta: Jätevesien puhdistus ja viemäröinti

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Tausta: Jätevedenpuhdistuksen alku, tehtävän määrittely ja keskeiset käsitteet

Juuti, P. & Rajala, R., 2008, *Ei jätevedenpuhdistamoa minun takapihalleni: Jätevedenpuhdistuksen päätöksenteko, päätäntäprosessit ja julkinen keskustelu Espoossa historiassa, nyt ja tuellaisuudessa*. Juuti, P. & Rajala, R. (eds.). TamPub, p. 7-18

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

Vesihuollon alku Espoossa: ensimmäiset päätökset

Juuti, P. & Rajala, R., 2008, *Ei jätevedenpuhdistamoa minun takapihalleni: Jätevedenpuhdistuksen päätöksenteko, päätäntäprosessit ja julkinen keskustelu Espoossa historiassa, nyt ja tuellaisuudessa*. Juuti, P. & Rajala, R. (eds.). TamPub, p. 19-38

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

Yhteistyötarpeet ja synergiaedut : miksi hoitaa kaikkien jätevedet?

Juuti, P. & Rajala, R., 2008, *Ei jätevedenpuhdistamoa minun takapihalleni: Jätevedenpuhdistuksen päätöksenteko, päätäntäprosessit ja julkinen keskustelu Espoossa historiassa, nyt ja tuellaisuudessa*. Juuti, P. & Rajala, R. (eds.). TamPub, p. 39-64

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

Vaatus paremmasta puhdistustuloksesta ohjaa jätevedenpuhdistuksen päätöksentekoa

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Espoo päättää siirtyä kärkipaikalle

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

Tutkimustoiminnalla turvallisuutta ja toimintavarmuutta: päätös panostaa omaan jätevesilaboratorioon

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

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

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Osuuskunnat mukaan infrastruktuuripolitiikkaan

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

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