

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

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., Kuittinen, N. & Timonen, H., 19 Feb 2019, In : Environmental Science and Technology. 53, 6, p. 3315-3322 8 p.

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

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

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

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

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

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

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

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

Tao, R., Bair, R., Lakaniemi, A. M., van Hullebusch, E. D. & Rintala, J. A., 2019, In : Journal of Applied Phycology.

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

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

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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

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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

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

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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

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

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

Vesihuollon ammattilaiset ovat verkostoituneet kautta aikojen

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., Ojanperä, 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

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

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

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. & Tirola, 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

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

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

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

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

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

Laasasaho, 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.

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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.

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High rate autotrophic denitrification in fluidized-bed biofilm reactors

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

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

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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

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

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

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

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

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Airtightness of residential buildings in Finland

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

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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.

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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.

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

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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.

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

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

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

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

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Appropriate pricing policy needed worldwide for improving water services infrastructure

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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.
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Fe₂O₃-TiO₂ Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation

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

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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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Konvergenssi ja divergenssi ongelmatyyppien luonnehtijoina: Esimerkkinä vesihuoltoinfrastruktuurin ikääntyminen

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

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

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

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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

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

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

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Lähteet Suomen vesihuollossa

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

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Inverse infrastructures: self-organization in the water services

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

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

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

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Kohti hajautettua infrastruktuuripolitiikkaa? Paikalliset vesiosuuskunnat perusrakenteiden tuottajina

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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.

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

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

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

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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

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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

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Adjustable wettability of paperboard by liquid flame spray nanoparticle deposition

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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

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

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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

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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

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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

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

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The need for "champions" in rural water supply

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Sata vuotta Suomen suurimmasta lavantautiepidemiasta

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Valkea kaupunki, mustat vedet

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Vesihuolto kaupungistuvissa yhteiskunnissa

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

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Measures for Energy Efficient and Low Emission Private Mobility

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

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Water Cooperatives in Tampere, Finland: the case of Pispala

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Jätehuollon, -politiikan ja -lainsäädännön institutionaalinen kuvaus

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Päätelmät yhdyskuntajätehuollon markkinainnovaatioista - taustat, kiistat ja sovellukset

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

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Yhdyskuntajätehuollon markkinainnovaatiot tutkimuskaupungeissa

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Sidosryhmien näkemykset jätehuollon markkinoistumisesta

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Paradigma alternativo : O papel das cooperativas e das autoridades locais

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Research output: Contribution to journal › Literature review › Scientific

Editorial

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Research output: Contribution to journal › Editorial › Scientific

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

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Research output: Contribution to journal › Article › Scientific

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Research output: Contribution to journal › Article › Scientific

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Research output: Contribution to journal › Article › Scientific

Kirja-arviointi: Kuinka vesiensuojelu saatiin pääosin kuntoon?

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Research output: Contribution to journal › Article › Scientific

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Research output: Contribution to journal › Article › Scientific

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Tulevaisuuden vesiosaajat

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Research output: Contribution to journal › Article › Scientific

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Pääkirjoitus. Veden keskeinen merkitys yhteiskunnassa ja yhdyskunnissa

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

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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
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Finnish water services: Experiences in global perspective

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

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

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Research output: Contribution to journal › Article › Professional

Vetoa vesihuoltopalveluihin täydennyskoulutuksen kautta

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Research output: Contribution to journal › Article › Professional

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Research output: Contribution to journal › Article › Professional

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

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

Research output: Contribution to journal › Article › Professional

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

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

Research output: Contribution to journal › Article › Professional

Vesiosuuskunnat - minä ne tulisi nähdä?

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

Research output: Contribution to journal › Article › Professional

Simulointi nopeuttaa käyttöiän määrittystä

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Research output: Contribution to journal › Article › Professional

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

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Osuuskunnat mukaan infrastruktuuripolitiikkaan

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Geo + Ympäristö = Ympäristögeotekniikka?

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

Research output: Contribution to journal › Article › Professional

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

Research output: Contribution to journal › Article › Professional

Vesihuollon kehitys ja yhteiskunnallinen merkitys : Hapertuvatko hanat?

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Research output: Contribution to journal › Article › Professional

Heikot signaalit vesihuollossa

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Research output: Contribution to journal › Article › Professional

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Dags att syna utmaningarna inom vattenförsörjningen

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

Research output: Contribution to journal › Article › Professional

Vesihuolto osana näkymätöntä kaupunkia

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

Research output: Contribution to journal › Article › Professional

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

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Testattua tahdistusta

Korpinen, L., 2012, In : Sähkö & Tele. 85, 3, p. 24-26

Research output: Contribution to journal › Article › Professional

Ulkoistaminen apuväline vesihuoltoverkoston kunnossapitoon?

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

Research output: Contribution to journal › Article › Professional

Vesihuollon historian lyhyt oppimäärä

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

Research output: Contribution to journal › Article › Professional

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

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Research output: Contribution to journal › Article › Professional

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

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

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

Vesihuollon ylikunnalliset sopimukset lisääntymässä

Kurki, V., 2010, In : Kuntatekniikka. 2, p. 18-18
Research output: Contribution to journal › Article › Professional

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Kuusipalo, J. & Lahti, J., 2010, In : Pakkaus. 5, p. 35-35
Research output: Contribution to journal › Article › Professional

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

Katko, T. S., 2010, In : Kuntatekniikka. 8, p. 44-47
Research output: Contribution to journal › Article › Professional

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