

**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- $\alpha$ -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 H<sub>2</sub>S 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.

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**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.

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**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

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**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.

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**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

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

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**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.

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

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

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

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.

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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.

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**Highly compact TiO<sub>2</sub> films by spray pyrolysis and application in perovskite solar cells**

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

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

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

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**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.

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

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**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.

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**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

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

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**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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**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.

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

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

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

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

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

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**Design aspects of all atomic layer deposited TiO<sub>2</sub>-Fe<sub>2</sub>O<sub>3</sub> 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

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**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.

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

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

### **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

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### **Recycling potential of post-consumer plastic packaging waste in Finland**

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### **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

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### **Suomen vesihuollon kehitys kansainvälisessä kontekstissa**

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

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

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### **Vesihuollon ammattilaiset ovat verkostoituneet kautta aikojen**

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### **Understanding sustainable development in Finnish water supply and sanitation services**

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

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

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**The effect of anode potential on bioelectrochemical and electrochemical tetrathionate degradation**

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

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

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 TiO<sub>2</sub> 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**

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**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.

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**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 CO<sub>2</sub> 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.

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

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

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

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

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

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

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**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.

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

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**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.

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

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**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.

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

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

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**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.

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**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 Fe<sub>2</sub>O<sub>3</sub> - Co<sub>3</sub>O<sub>4</sub> 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.

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**Characterization of fine fraction mined from two Finnish landfills**

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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.

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**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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**A study on raw, torrefied, and steam-exploded wood: Fine grinding, drop-tube reactor combustion tests in N<sub>2</sub>/O<sub>2</sub> and CO<sub>2</sub>/O<sub>2</sub> 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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**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**

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

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

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

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

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

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**Vapor phase processing of  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub> 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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**Pt-functionalized Fe<sub>2</sub>O<sub>3</sub> photoanodes for solar water splitting: the role of hematite nano-organization and the platinum redox state**

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

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**Methane oxidation potential of boreal landfill cover materials: The governing factors and enhancement by nutrient manipulation**

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

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

**Fe<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> Nano-heterostructure Photoanodes for Highly Efficient Solar Water Oxidation**

Bañreca, 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

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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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**Kohti tasapuolisempaa tutkimuksen arviointia: Pääkirjoitus**

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

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**An experimental study and numerical modeling of combusting two coal chars in a drop-tube reactor: A comparison between N<sub>2</sub>/O<sub>2</sub>, CO<sub>2</sub>/O<sub>2</sub>, and N<sub>2</sub>/CO<sub>2</sub>/O<sub>2</sub> 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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**Simultaneous detection of three antiviral and four antibiotic compounds in source-separated urine with liquid chromatography**

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**Anaerobic digestion of autoclaved and untreated food waste**

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#### **E-sail test payload of the ESTCube-1 nanosatellite**

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

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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 infrastruktuuripoliittikkaa? Paikalliset vesiosuuskunnat perusrakenteiden tuottajina**

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#### **Bioenergy consumption and biogas potential in Cambodian households**

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#### **Impact of heavy metals on denitrification of simulated mining wastewaters**

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

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

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#### **Pollutants source control and health effects**

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**Halpaa eli hyvää - minkälaisia merkityksiä vesihuoltoala rakentaa itsestään**

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**Käänteiset infrastruktuurit ja integroiva infrastruktuuripolitiikka**

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

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**Bacterial community transcription patterns during a marine phytoplankton bloom**

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

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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

**Coal char combustion in O<sub>2</sub>/N<sub>2</sub> and O<sub>2</sub>/CO<sub>2</sub> 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**

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

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

**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

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

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

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

**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

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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**

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

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

Cajal-Marinoso, 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**

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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**

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**

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

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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**

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

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

**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

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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

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

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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**

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**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**

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

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

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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

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

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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.

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

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

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

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

**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

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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

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

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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.

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#### **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

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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., Räisänen, M-L., Levänen, E. & Illikainen, M., 2018, In : *Journal of Cleaner Production*. 174, p. 634-649

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

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#### **Conversion of Solid Waste into Functional Carbon Materials: A Review**

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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**

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

### **Vesihuolto kaupungistuvissa yhteiskunnissa**

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

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

Nancharaiah, 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**

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

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### **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**

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### **Vesitalous - monipuolisesti vesialalta**

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

### **Measures for Energy Efficient and Low Emission Private Mobility**

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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**

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

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

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

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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**

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).

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### **Yhdyskuntien vesihuolto – kehityksen ja elämän ehto**

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### **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.

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### **Unipoli Green - Four Universities Working Together for Sustainability**

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

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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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#### **Jätehuollon tekniset vaihtoehdot**

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#### **Gestao e organizacao dos servicos de saneamento : Abordagens europeias.**

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

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