

Estimation of the largest expected photovoltaic power ramp rates

Lappalainen, K., Wang, G. C. & Kleissl, J., 15 Nov 2020, In : *Applied Energy*. 278, 13 p., 115636.

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

Physicochemical and elemental analyses of sandstone quarrying wastes to assess their impact on soil properties

Singhal, A., Goel, S. & Sengupta, D., 1 Oct 2020, In : *Journal of Environmental Management*. 271, 111011.

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

Multifrequency PolSAR Image Classification Using Dual-Band 1D Convolutional Neural Networks

Ahishali, M., Kiranyaz, S., Ince, T. & Gabbouj, M., 1 Mar 2020, *2020 Mediterranean and Middle-East Geoscience and Remote Sensing Symposium, M2GARSS 2020 - Proceedings*. IEEE, p. 73-76 4 p.

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

Terrestrial laser scanning for non-destructive estimates of liana stem biomass

Krishna Moorthy, S. M., Raunonen, P., Van den Bulcke, J., Calders, K. & Verbeeck, H., 15 Jan 2020, In : *FOREST ECOLOGY AND MANAGEMENT*. 456, 14 p., 117751.

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

Customer-oriented approach in cadastral procedures – Case study from Finland

Sulonen, K., Riekkinen, K. & Kotilainen, S., 2020, In : *Land Use Policy*. 90, 104209.

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

Urban housing density and infrastructure costs

Kurvinen, A. & Saari, A., 2020, In : *Sustainability (Switzerland)*. 12, 2, 24 p., 497.

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

Potential of renewable fuel to reduce diesel exhaust particle emissions

Pirjola, L., Kuuluvainen, H., Timonen, H., Saarikoski, S., Teinilä, K., Salo, L., Datta, A., Simonen, P., Karjalainen, P., Kulmala, K. & Rönkkö, T., 15 Nov 2019, In : *Applied Energy*. 254, 113636.

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

Building university-industry co-innovation networks in transnational innovation ecosystems: Towards a transdisciplinary approach of integrating social sciences and artificial intelligence

Cai, Y., Ferrer, B. R. & Lastra, J. L. M., 1 Sep 2019, In : *Sustainability*. 11, 17, 4633.

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

Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region

Kahle, H., Phung, H-M., Penttinen, J-P., Rajala, P., Tukiainen, A., Ranta, S. & Guina, M., 1 May 2019, *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE

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

Frequency Comb Generation in a Continuous-Wave Pumped Second-Order Nonlinear Waveguide Resonator

Abdallah, Z., Stefszky, M., Ulvila, V., Silberhorn, C. & Vainio, M., 1 May 2019, *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE

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

High-Q resonance train in a plasmonic metasurface

Saad-Bin-Alam, M., Reshef, O., Huttunen, M. J., Carlow, G., Sullivan, B., Menard, J. M., Dolgaleva, K. & Boyd, R. W., 1 May 2019, *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE

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

Optical Frequency Comb Photoacoustic Spectroscopy

Sadiek, I., Mikkonen, T., Vainio, M., Toivonen, J. & Foltynowicz, A., 1 May 2019, *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE

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

Semi-continuous mono-digestion of OFMSW and Co-digestion of OFMSW with beech sawdust: Assessment of the maximum operational total solid content

Pastor-Poquet, V., Papiro, S., Trably, E., Rintala, J., Escudié, R. & Esposito, G., 1 Feb 2019, In : *Journal of Environmental Management*. 231, p. 1293-1302 10 p.

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

Characteristics of particle emissions and their atmospheric dilution during co-combustion of coal and wood pellets in a large combined heat and power plant

Mylläri, F., Pirjola, L., Lihavainen, H., Asmi, E., Saukko, E., Laurila, T., Vakkari, V., O'Connor, E., Rautiainen, J., Häyrynen, A., Niemelä, V., Maunula, J., Hillamo, R., Keskinen, J. & Rönkkö, T., 2019, In : *Journal of the Air and Waste Management Association*.

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

Technology valuation method for supporting knowledge management in technology decisions to gain sustainability

Mämmelä, J., Juuti, T. & Julkunen, P., 2019, In : *Sustainability (Switzerland)*. 11, 12, 3410.

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

Editorial

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

Research output: Contribution to journal > Editorial > Scientific

A comparative analysis of global datasets and initiatives for urban health and sustainability

Taylor, J., Haines, A., Milner, J., Davies, M., Wilkinson, P., Sehgal, M., Singh, K. N., Barreto, M., Vianna, N. & Teles, C., 11 Oct 2018, In : *Sustainability (Switzerland)*. 10, 10, 3636.

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

Production of alkanes from CO₂ by engineered bacteria

Lehtinen, T., Virtanen, H., Santala, S. & Santala, V., 21 Aug 2018, In : *Biotechnology for Biofuels*. 11, 228.

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

Energy consumption of Finnish schools and daycare centers and the correlation to regulatory building permit values

Ruusala, A., Laukkarinen, A. & Vinha, J., 1 Aug 2018, In : *Energy Policy*. 119, p. 183-195 13 p.

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

Metabolic pairing of aerobic and anaerobic production in a one-pot batch cultivation

Salmela, M., Lehtinen, T., Efimova, E., Santala, S. & Mangayil, R., 3 Jul 2018, In : *Biotechnology for Biofuels*. 11, 1, 187.

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

Cross-impact analysis of Finnish electricity system with increased renewables: Long-run energy policy challenges in balancing supply and consumption

Panula-Ontto, J., Luukkanen, J., Kaivo-oja, J., O'Mahony, T., Vehmas, J., Valkealahti, S., Björkqvist, T., Korpela, T., Järventausta, P., Majanne, Y., Kojo, M., Aalto, P., Harsia, P., Kallioharju, K., Holttinen, H. & Repo, S., 1 Jul 2018, In : *Energy Policy*. 118, p. 504-513 10 p.

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

Nutrient management via struvite precipitation and recovery from various agroindustrial wastewaters: Process feasibility and struvite quality

Taddeo, R., Honkanen, M., Kolppo, K. & Lepistö, R., 15 Apr 2018, In : Journal of Environmental Management. 212, p. 433-439 7 p.

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

Techno-economic evaluation of integrating torrefaction with anaerobic digestion

Doddapaneni, T. R. K. C., Praveenkumar, R., Tolvanen, H., Rintala, J. & Konttinen, J., 2018, In : Applied Energy. 213, p. 272-284 13 p.

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

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

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

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

Change program management: Toward a capability for managing value-oriented, integrated multi-project change in its context

Martinsuo, M. & Hoverfält, P., Dec 2017, In : International Journal of Project Management. 36, 1, p. 134 – 146

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

Sustainable project management through project control in infrastructure projects

Kivilä, J., Martinsuo, M. & Vuorinen, L., Aug 2017, In : International Journal of Project Management. 35, 6, p. 1167 – 1183

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

The variation of air and surface temperatures in London within a 1km grid using vehicle-transect and ASTER data

Dos Santos, R. S., Taylor, J., Davies, M., Mavrogianni, A. & Milner, J., 10 May 2017, *2017 Joint Urban Remote Sensing Event, JURSE 2017*. Institute of Electrical and Electronics Engineers Inc., 7924613. (2017 Joint Urban Remote Sensing Event, JURSE 2017).

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

Advances in determining Δu and S_u for limit equilibrium analyses

Lehtonen, V. & Lämsivaara, T., 2017, *Landslides in Sensitive Clays: From Research to Implementation*. Springer, p. 237-247 11 p. (Advances in Natural and Technological Hazards Research; vol. 46).

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

Determination of remoulding energy of sensitive clays

Thakur, V., Degago, S. A., Selänpää, J. & Lämsivaara, T., 2017, *Landslides in Sensitive Clays: From Research to Implementation*. Springer, p. 97-107 11 p. (Advances in Natural and Technological Hazards Research; vol. 46).

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

Effects of sample disturbance in the determination of soil parameters for advanced finite element modelling of sensitive clays

D'Ignazio, M., Jostad, H. P., Lämsivaara, T., Lehtonen, V., Mansikkamäki, J. & Meehan, C., 2017, *Landslides in Sensitive Clays: From Research to Implementation*. Springer, p. 146-154 9 p. (Advances in Natural and Technological Hazards Research; vol. 46).

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

Problems related to field vane testing in soft soil conditions and improved reliability of measurements using an innovative field vane device

Selänpää, J., Buò, B. D., Lämsivaara, T. & D'Ignazio, M., 2017, *Landslides in Sensitive Clays: From Research to Implementation*. Springer, p. 121-131 11 p. (Advances in Natural and Technological Hazards Research; vol. 46).

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

Project change stakeholder communication

Butt, A., Naaranoja, M. & Savolainen, J., 1 Nov 2016, In : International Journal of Project Management. 34, 8, p. 1579-1595 17 p.

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

Enhancing the supplier's non-contractual project relationships with designers

Sariola, R. & Martinsuo, M., 1 Aug 2016, In : International Journal of Project Management. 34, 6, p. 923-936 14 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Agronomic characteristics of five different urban waste digestates

Tampio, E., Salo, T. & Rintala, J., 15 Mar 2016, In : Journal of Environmental Management. 169, p. 293-302 10 p.
Research output: Contribution to journal › Article › Scientific › peer-review

From the front end of projects to the back end of operations: Managing projects for value creation throughout the system lifecycle

Arto, K., Ahola, T. & Vartiainen, V., 1 Feb 2016, In : International Journal of Project Management. 34, 2, p. 258-270 13 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Clashing coalitions: A discourse analysis of an artificial groundwater recharge project in Finland

Kurki, V., Takala, A. & Vinnari, E., 2016, In : Local Environment. 21, 11, p. 1317-1331
Research output: Contribution to journal › Article › Scientific › peer-review

Metabolic engineering of *Acinetobacter baylyi* ADP1 for removal of *Clostridium butyricum* growth inhibitors produced from lignocellulosic hydrolysates

Kannisto, M. S., Mangayil, R. K., Shrivastava-Bhattacharya, A., Pletschke, B. I., Karp, M. T. & Santala, V. P., 1 Dec 2015, In : Biotechnology for Biofuels. 8, 1, 198.
Research output: Contribution to journal › Article › Scientific › peer-review

Testing the near field/far field model performance for prediction of particulate matter emissions in a paint factory

Koivisto, A. J., Jensen, A. C. Ø., Levin, M., Kling, K. I., Maso, M. D., Nielsen, S. H., Jensen, K. A. & Koponen, I. K., 1 Jan 2015, In : Environmental Sciences: Processes and Impacts. 17, 1, p. 62-73 12 p.
Research output: Contribution to journal › Article › Scientific › peer-review

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

Kurki, V. & Katko, T. S., 2015, In : Water Alternatives. 8, 3, p. 337-351 15 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Institutional entrepreneurship, power, and knowledge in innovation systems: Institutionalization of regenerative medicine in Tampere, Finland

Sotarauta, M. & Mustikkamäki, N., 2015, In : ENVIRONMENT AND PLANNING C: GOVERNMENT AND POLICY. 33, 2, p. 342-357 16 p.
Research output: Contribution to journal › Article › Scientific › peer-review

What is project governance and what are its origins?

Ahola, T., Ruuska, I., Arto, K. & Kujala, J., 1 Nov 2014, In : International Journal of Project Management. 32, 8, p. 1321-1332 12 p.
Research output: Contribution to journal › Article › Scientific › peer-review

In-use vs. type-approval fuel consumption of current passenger cars in Europe

Ntziachristos, L., Mellios, G., Tsokolis, D., Keller, M., Hausberger, S., Ligterink, N. E. & Dilara, P., Apr 2014, In : Energy Policy. 67, p. 403-411 9 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Project-based and temporary organizing: Reconnecting and rediscovering

Söderlund, J., Hobbs, B. & Ahola, T., 2014, In : *International Journal of Project Management*. 32, 7, p. 1085-1090 6 p.
Research output: Contribution to journal › Editorial › Scientific › peer-review

Software design for simulating microbial bioprocesses in bioreactor

Nikhil, Puhakka, J. A., Visa, A. & Yli-Harja, O., 2014, *6th International Conference on Environmental Informatics, ISEIS 2007*. International Society for Environmental Information Sciences, 60700018
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Attitude-behaviour gap in energy issues: Case study of three different Finnish residential areas

Valkila, N. & Saari, A., Feb 2013, In : *ENERGY FOR SUSTAINABLE DEVELOPMENT*. 17, 1, p. 24-34 11 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Constructing the market position of a project-based firm

Ahola, T., Kujala, J., Laaksonen, T. & Aaltonen, K., 2013, In : *International Journal of Project Management*. 31, 3, p. 355-365 11 p.
Research output: Contribution to journal › Article › Scientific › peer-review

The Policy Relevance of Wear Emissions from Road Transport, Now and in the Future-An International Workshop Report and Consensus Statement

Denier van der Gon, H. A. C., Gerlofs-Nijland, M. E., Gehrig, R., Gustafsson, M., Janssen, N., Harrison, R. M., Hulskotte, J., Johansson, C., Jozwicka, M., Keuken, M., Krijgsheld, K., Ntziachristos, L., Riediker, M. & Cassee, F. R., 2013, In : *Journal of the Air and Waste Management Association*. 63, 2, p. 136-149 14 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Use of services to support the business of a project-based firm

Kujala, J., Ahola, T. & Huikuri, S., 2013, In : *International Journal of Project Management*. 31, 2, p. 177-189 13 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Consumer panel on the readiness of finns to behave in a more pro-environmental manner

Valkila, N. & Saari, A., Jul 2012, In : *Sustainability*. 4, 7, p. 1561-1579 19 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Policy learning and the 'cluster-flavoured innovation policy' in Finland

Sotarauta, M., 2012, In : *ENVIRONMENT AND PLANNING C: GOVERNMENT AND POLICY*. 30, 5, p. 780-795 16 p.
Research output: Contribution to journal › Article › Scientific › peer-review

A new governance approach for multi-firm projects: Lessons from Olkiluoto 3 and Flamanville 3 nuclear power plant projects

Ruuska, I., Ahola, T., Arto, K., Locatelli, G. & Mancini, M., Aug 2011, In : *International Journal of Project Management*. 29, 6, p. 647-660 14 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Institutional entrepreneurship for knowledge regions: In search of a fresh set of questions for regional innovation studies

Sotarauta, M. & Pulkkinen, R., 2011, In : *ENVIRONMENT AND PLANNING C: GOVERNMENT AND POLICY*. 29, 1, p. 96-112 17 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Detailed internal characterisation of two Finnish landfills by waste sampling

Sormunen, K., Ettala, M. & Rintala, J., 2008, In : *Waste Management*. 28, 1, p. 151-163 13 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Landfill gas upgrading with countercurrent water wash

Rasi, S., Lantelä, J., Veijanen, A. & Rintala, J., 2008, In : *Waste Management*. 28, 9, p. 1528-1534 7 p.
Research output: Contribution to journal › Article › Scientific › peer-review

Mechanically-biologically treated municipal solid waste as a support medium for microbial methane oxidation to mitigate landfill greenhouse emissions

Einola, J. K. M., Karhu, A. E. & Rintala, J. A., 2008, In : Waste Management. 28, 1, p. 97-111 15 p.

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

Laboratory investigations on co-digestion of energy crops and crop residues with cow manure for methane production: Effect of crop to manure ratio

Lehtomäki, A., Huttunen, S. & Rintala, J. A., Sep 2007, In : Resources Conservation and Recycling. 51, 3, p. 591-609 19 p.

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

Anaerobic co-digestion of potato tuber and its industrial by-products with pig manure

Kaparaju, P. & Rintala, J., Jan 2005, In : Resources Conservation and Recycling. 43, 2, p. 175-188 14 p.

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

Removal of bis (2-ethylhexyl) phthalate from reject water in a nitrogen-removing sequencing batch reactor

Martinen, S. K., Ruissalo, M. & Rintala, J. A., Nov 2004, In : Journal of Environmental Management. 73, 2, p. 103-109 7 p.

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