

First principles prediction of the solar cell efficiency of chalcopyrite materials AgMX_2 (M=In, Al; X=S, Se, Te)

Dongho-Nguimdo, G. M., Igumbor, E., Zambou, S. & Joubert, D. P., 1 Dec 2019, In : Computational Condensed Matter. 21, e00391.

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

Automatization and stress analysis data of CoCr laser weld fatigue tests

Kanerva, M., Besharat, Z., Pärnänen, T., Jokinen, J., Honkanen, M., Sarlin, E., Göthelid, M. & Schlenzka, D., 1 Oct 2019, In : Data in Brief. 26, 104374.

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

DroneRF dataset: A dataset of drones for RF-based detection, classification and identification

Allahham, MHD. S., Al-Sa'd, M. F., Al-Ali, A., Mohamed, A., Khattab, T. & Erbad, A., 1 Oct 2019, In : Data in Brief. 26, 104313.

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

Participatory service design and community involvement in designing future-ready sustainable learning landscapes

Sandström, N., Nevgi, A. & Nenonen, S., 2 Sep 2019, *SBE 19 - Emerging Concepts for Sustainable Built Environment 22–24 May 2019, Helsinki, Finland*. IOP Publishing, (IOP Conference Series: Earth and Environmental Science; vol. 297).

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

Discovering collaborative and inclusive solutions to co-create multidimensional value in cross-sector collaboration

Vuori, V., Bor, S., Polsa, P., Käpylä, J. & Helander, N., Sep 2019, *Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management: 17-19 September, 2019, Vienna, Austria*. SCITEPRESS, p. 364-369 6 p. (IC3K 2019 - Proceedings of the 11th International Joint Conference on Knowledge Discovery, Knowledge Engineering and Knowledge Management; vol. 3).

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

Research-industry collaboration: a review of the literature on evaluation methods and motivations

Solodko, A., Mäkinen, S., Lasheras, N. C., Bedolla, J. S. & Saari, U., 29 Aug 2019, *PICMET 2019 Conference: August 25-29, 2019, Portland, Oregon, USA*. Portland, 7 p. 19R0108

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

Enabling cybersecurity incident reporting and coordinated handling for maritime sector

Silverajan, B. & Vistiaho, P., 1 Aug 2019, *2019 14th Asia Joint Conference on Information Security, AsiaJCIS 2019*. IEEE, p. 88-95 8 p.

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

Visibility-Aware Part Coding for Vehicle Viewing Angle Estimation

Yang, D., Qian, Y., Cai, D., Yan, S., Kämäräinen, J.-K. & Chen, K., 1 Aug 2019, *9th International Conference on Information Science and Technology, ICIST 2019*. IEEE, p. 65-70 6 p.

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

Profile extraction and deep autoencoder feature extraction for elevator fault detection

Mishra, K., Krogerus, T. & Huhtala, K., 28 Jul 2019, *16th International Conference on Signal Processing and Multimedia Applications: SIGMAP 2019, 26-28 July, 2019, Prague, Czech Republic*. Callegari, C. (ed.). 2019 ed. Prague, Czech Republic: SCITEPRESS, Vol. 16. p. 313-320 8 p.

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

Empirical study of good, bad and ugly modular engineering solutions in machinery manufacturing industry

Juuti, T., Pakkanen, J. & Lehtonen, T., 26 Jul 2019, *Proceedings of the Design Society: International Conference on Engineering Design: The 22nd International Conference on Engineering Design, ICED19, Delft, The Netherlands, 5-8 August 2019*. Cambridge University Press, p. 2981-2990 10 p. (Proceedings of the Design Society: International Conference on Engineering Design).

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

Actors' agency in the routines of innovation project portfolio management

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

Diffusion of innovation: Case of co-design of cabins in mobile work machine industry

Ellman, A. & Tiainen, T., 1 Jun 2019, In : *Computers*. 8, 2, 39.

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

Knowledge management practices to overcome network-level knowledge barriers: an artificial intelligence powered literature review

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

Normalization of deviance in the construction industry, a managerial perspective

Hajikazemi, S., Ahola, T., Aaltonen, K., Aarseth, W. & Andersen, B., Jun 2019, *European Academy of Management Conference 2019, EURAM: 26-28 June, Lissabon, Portugal*. (European academy of management annual conference).

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

The circular economy of projects

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

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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

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

A Semantic Meta-Model Repository for Lightweight M2M

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

Muovipäälysteisten lattioiden vaurioituminen kosteuden vaikutuksesta

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

Large mode area double clad ytterbium tapered fiber with circular birefringency

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

Analysis of upconversion nanoparticles as an active medium for upconversion light sources

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

Accurate impedance model of grid-connected inverter for small-signal stability assessment in high-impedance grid

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

1.3µm U-bend traveling wave SOA devices for high efficiency coupling to silicon photonics

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

1.55-µm wavelength wafer-fused OP-VECSELs in flip-chip configuration

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

405-nm pumped Ce³⁺-doped silica fiber for broadband fluorescence from cyan to red

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

Action and power efficiency in self-organization: The case for growth efficiency as a cellular objective in escherichia coli

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

A model for profiling information and knowledge management in the public sector

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

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Business intelligence process model revisited

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Challenges in developing data-based value creation

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

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

Mean and variability in RNA polymerase numbers are correlated to the mean but not the variability in size and composition of Escherichia coli cells

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

MECSELs with direct emission in the 760 nm to 810 nm spectral range: A single- and double-side pumping comparison and high-power continuous-wave operation

Kahle, H., Penttinen, J. P., Phung, H. M., Rajala, P., Tukiainen, A., Ranta, S. & Guina, M., 2019, *Vertical External Cavity Surface Emitting Lasers (VECSELs) IX*. Keller, U. (ed.). SPIE, IEEE, 109010D. (Proceedings of SPIE - The International Society for Optical Engineering; vol. 10901).

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

Modelling the stressed skin effect by using shell elements with meta-material model

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

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

Random lasing control with optical spatial solitons in nematic liquid crystals

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

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

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

Smartphone teleoperation for self-balancing telepresence robots

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

Experimental moment resistance of rectangular hollow section T joints

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Research output: Contribution to journal › Conference article › Scientific › peer-review

Industrialization of hybrid and additive manufacturing-Implementation to Finnish industry (HYBRAM)

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Research output: Book/Report › Commissioned report › Professional

Performance Enhancement Of Optimized Link State Routing Protocol For Health Care Applications In Wireless Body Area Networks

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

Tutkimuskatsaus: Uusia menetelmiä haavan paranemisen arviointiin ja seurantaan

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

The Effects of Product Line Length on Firm Performance

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

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

Technopreneurial Characteristics Rising from the Ashes of Creative Destruction

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

Analysis of User Exploration Patterns during Scene Cuts in Omnidirectional Videos

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

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

Glove-integrated slotted patch antenna for wearable UHF RFID reader

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

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

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

Constrained Long-Horizon Direct Model Predictive Control for Synchronous Reluctance Motor Drives

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

2D Video Coding of Volumetric Video Data

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

Evaluation of Median Root Prior for Robust In-Beam PET Reconstruction

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

Web User Interface Implementation Technologies: An Underview

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

Fabrication and Practical Evaluation of Glove-integrated Passive UHF RFID Tags

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

Multi-site delamination analysis using virtual crack closure technique for a composite aircraft wing flap

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

Nanocellulose as a Piezoelectric Material

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

Comparison of food frequency questionnaire data and shopping records for the assessment of food intake

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

Effect of radiation inside square hollow section under moderate non-symmetric fire

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Research output: [Contribution to journal](#) › [Article](#) › [Scientific](#) › [peer-review](#)

Model-based cosimulation for industrial wireless networks

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Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#) › [peer-review](#)

Improved modelling of electric loads for enabling demand response by applying physical and data-driven models: Project Response

Koponen, P., Hanninen, S., Mutanen, A., Koskela, J., Rautiainen, A., Järventausta, P., Niska, H., Kolehmainen, M. & Koivisto, H., 27 Jun 2018, *2018 IEEE International Energy Conference, ENERGYCON 2018*. IEEE, p. 1-6 6 p.

Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#) › [peer-review](#)

Moving toward integrated solutions in project-based firms: Changes in sales practices

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Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#) › [peer-review](#)

Systematic literature review on customer emotions in social media

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Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#) › [peer-review](#)

Fabrication and reliability evaluation of passive UHF RFID T-shirts

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Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#) › [peer-review](#)

Education on the utilization of secondary materials in earthworks

Kuula, P., Leppänen, M., Kolisoja, P., Korkiala-Tanttu, L., Sorvari, J. & Gustavsson, H., 6 Jun 2018, *Proceedings of the 10th International Conference on the Environmental and Technical Implications of Construction with Alternative Materials: No Gradle no Grave Circular Economy into practice*. Lahtinen, P. & Raasakka, V. (eds.). RIL - Finnish Association of Civil Engineers, p. 177-187 11 p.

Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#) › [peer-review](#)

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

Leppänen, M., Sarkkila, J., Hämäläinen, H. & Rinkinen, J., 6 Jun 2018, *Proceedings of the 10th International Conference on the Environmental and Technical Implications of Construction with Alternative Materials WASCON 2018: No Gradle, No Grave - Circular Economy into Practice*. Raasakka, V. & Lahtinen, P. (eds.). RIL - Finnish Association of Civil Engineers, p. 168-175

Research output: [Chapter in Book/Report/Conference proceeding](#) › [Chapter](#) › [Scientific](#) › [peer-review](#)

Dual-frequency signal processing architecture for robust and precise positioning applications

Bolla, P. & Lohan, E-S., 5 Jun 2018, *2018 IEEE/ION Position, Location and Navigation Symposium, PLANS 2018*. IEEE, p. 72-80 9 p.

Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#) › [peer-review](#)

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Research output: [Chapter in Book/Report/Conference proceeding](#) › [Conference contribution](#) › [Scientific](#) › [peer-review](#)

Industrial customers' organizational readiness for service innovations: Adopting data-based advanced services

Martinsuo, M. & Vaittinen, E., Jun 2018, *Proceedings of the 25th Innovation and Product Development Management Conference*. European Institute for Advanced Studies in Management, EIASM, 17 p. (International Product Development Management Conference).

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Toenger, S., Ahvenjärvi, J., Ryczkowski, P. & Genty, G., Jun 2018, *Trends in Electromagnetic Coherence*. Setälä, T., Turunen, J., T. Friberg, A. & Saastamoinen, K. (eds.). Joensuu: University of Eastern Finland, (Publications of the University of Eastern Finland. Reports and studies in forestry and natural sciences; no. 32).

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

Lifecycle-oriented framing of value at the front end of infrastructure projects

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

Requirements from industrial internet for innovations in advanced industrial services

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

Toward Manageable Data Sources

Sillberg, P., Jun 2018, *EJC 2018: Proceedings of the 28th International Conference on Information Modelling and Knowledge Bases*. Endrjukaite, T., Kangassalo, H., Thalheim, B. & Kiyoki, Y. (eds.). Transport and Telecommunication Institute, p. 485-494

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

Re-use of engineering design rationale in Finnish SME project based industry

Ellman, A., Paronen, J., Juuti, T. S. & Tiainen, T., 24 May 2018, *Proceedings of the Design 2018 15th International Design Conference*. The Design Society, p. 1825-1832 8 p.

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

Finnish Round Robin Test on Airborne Sound Insulation

Lietzen, J. & Kylliäinen, M., May 2018, *Proceedings of the 11th European Congress and Exposition on Noise Control Engineering, Euronoise 2018, May 27-31 2018, Hersonissos, Crete, Greece: Reduce Noise to Improve Life*. Hersonissos, Crete, Greece: European Acoustic Association EAA, p. 1677-1682 6 p. 282.162. (European Congress and Exposition on Noise Control Engineering).

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

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

Ready to sell? Requirements for promoting service selling in a manufacturing firm

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

Ideoita kaavoituksen sisällön uudistamiseen: Kaavojen merkintöjen ja määräysten kehittäminen (KAMMI-hanke)

Translated title of the contribution: : Ideas to reform the content of spatial plans: Developing the designations and regulations related to plans

Jama, T., Lehtovuori, P., Rajaniemi, J., Siikonen, M., Mäntynen, J., Rantanen, A., Joutsiniemi, A., Koskela, K., Kärkinen, T., Saarikoski, P. & Saarniaho, K., 26 Jan 2018, Helsinki: Ympäristöministeriö. 74 p.

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

Process time importance in the product properties evolvement during extrusion coating of different LDPE grades

Suokas, E. & Kuusipalo, J., 1 Jan 2018, *15th TAPPI Advanced Coating Fundamentals Symposium 2018: Charlotte; United States; 14 April 2018 through 15 April 2018*. TAPPI Press, p. 151-159 9 p.

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

Sub-100 fs pulse generation from a Tm,Ho: CALYO laser mode-locked by a GaSb-based SESAM at ~2043 nm

Zhao, Y., Wang, Y., Zhang, X., Mateos, X., Pan, Z., Loiko, P., Zhou, W., Xu, X., Xu, J., Shen, D., Suomalainen, S., Härkönen, A., Guina, M., Griebner, U. & Petrov, V., 1 Jan 2018, *CLEO: Science and Innovations, CLEO_SI 2018*. OSA - The Optical Society

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

Ultra-large mode area single frequency anisotropic MOPA with double clad Yb-doped tapered fiber

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

360 panorama super-resolution using deep convolutional networks

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Action recognition using the 3D dense microblock difference

Voronin, V., Pismenskova, M., Zelensky, A., Cen, Y., Nadykto, A. & Eguiazarian, K., 2018, *Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II*. SPIE, 108020O. (Proceedings of SPIE; vol. 10802).

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

Adaptive Feedback in Local Coordinates for Real-time Vision-Based Motion Control Over Long Distances

M. Aref, M., Astola, P., Vihonen, J., Tabus, I., Ghabcheloo, R. & Mattila, J., 2018, *International Conference on Robotics and Mechantronics : (ICRoM 2017)*. IOP Publishing Ltd., Vol. 320. 6 p. 012009. (IOP conference series : materials science and engineering).

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

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

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

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

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

Automated pile transfer work cycles with a robotic wheel loader

Halbach, E., Kolu, A. & Ghabcheloo, R., 2018, *17th International Conference on Computing in Civil and Building Engineering (ICCCBE): Tampere, 5-7 June 2018*. Mela, K., Pajunen, S. & Raasakka, V. (eds.). Tampere, Finland: RIL, 8 p.

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Beyond ic 4.0 : the future potential of bi-tool utilization in the private healthcare

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

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

Collective nonlinear optical effects in plasmonic nanohole ensembles of different rotational symmetries

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

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

Development of efficient electrically pumped nanolasers based on InAlGaAs tunnel junction

Fang, C. Y., Vallini, F., Amili, A. E., Tukiainen, A., Lyytikäinen, J., Guina, M. & Fainman, Y., 2018, *CLEO: Science and Innovations, CLEO_SI 2018*. OSA - The Optical Society

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

Digital image correlation study of the deformation and functioning of the human heart during open-heart surgery

Soltani, A., Curtze, S., Lahti, J., Järvelä, K., Laurikka, J., Hokka, M. & Kuokkala, V. T., 2018, *Mechanics of Biological Systems, Materials and other topics in Experimental and Applied Mechanics - Proceedings of the 2017 Annual Conference on Experimental and Applied Mechanics*. Springer New York LLC, Vol. 4. p. 19-27 9 p. (Conference Proceedings of the Society for Experimental Mechanics).

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

Effect of elevated nitrate and sulfate concentrations on selenate removal by mesophilic anaerobic granular sludge bed reactors

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

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

Electro-optic steering of random laser emission in liquid crystals

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

Elementary math to close the digital skills gap

Niemelä, P. & Valmari, A., 2018, *CSEDU 2018 - Proceedings of the 10th International Conference on Computer Supported Education*. SCITEPRESS, Vol. 2. p. 154-165 12 p.

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

Enhanced outdoor to indoor propagation models and impact of different ray tracing approaches at higher frequencies

Sheikh, M. U., Hiltunen, K. & Lempiäinen, J., 2018, In : *Advances in Science, Technology and Engineering Systems*. 3, 2, p. 58-68 11 p.

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

Evaluating the contrast of planar periodic patterns on paper

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

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

Eye-in-Hand Manipulation for Remote Handling: Experimental Setup

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

Frequency-doubled VECSEL employing a Volume Bragg Grating for linewidth narrowing

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

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

Gibbs Dyadic Differentiation on Groups - Evolution of the Concept

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

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

Highly-efficient Ho:KY(WO₄)₂ thin-disk lasers at 2.06 μm

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

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

High power picosecond MOPA with anisotropic ytterbium-doped tapered double-clad fiber

Fedotov, A., Noronen, T., Rissanen, J., Gumenyuk, R., Petrov, A., Chamorovskii, Y., Golant, K., Odnoblyudov, M. & Filippov, V., 2018, *Proceedings of SPIE : Fiber Lasers and Glass Photonics: Materials through Applications*. Taccheo, S., Mackenzie, J. & Ferrari, M. (eds.). SPIE-INT SOC OPTICAL ENGINEERING, Vol. 10683. 7 p. (Proceedings of SPIE; vol. 10683).

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

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

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

Internal Heat Generation in Tension Tests of AISI 316 Using Full-Field Temperature and Strain Measurements

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

In vitro characterization of arylhydrazones of active methylene derivatives

Palanivel, S., Zhurina, A., Doan, P., Chandraseelan, J. G., Khandelwal, V. K. M., Zubkov, F. I., Mahmudov, K. T., Pombeiro, A. J. L., Yli-Harja, O. & Kandhavelu, M., 2018, In : *Saudi Pharmaceutical Journal*. 26, 3, p. 430-436

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

JPEG Pleno: a standard framework for representing and signaling plenoptic modalities

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

Kehittämistutkimus: vuorovaikutteisten Matlab-opetusohjelmien vaikutus minäpystyvyyteen ja oppimistuloksiin yliopistomatematiikassa

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

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

Laser Scanning Tasks of Building Refurbishment Project

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

Making the cloud work for software producers: Linking architecture, operating cost and revenue

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

Model for efficient development of security audit criteria

Kelo, T., Eronen, J. & Rousku, K., 2018, *Proceedings of the 17th European Conference on Cyber Warfare and Security, ECCWS 2018*. Curran Associates, p. 244-252 9 p.

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

Non-resonant enhancement of second-harmonic generation from metal nanoislands coated with dielectric layers

Koskinen, K., Scherbak, S., Chervinskii, S., Lipovskii, A. & Kauranen, M., 2018, *CLEO: QELS_Fundamental Science 2018*. OSA, 2 p. JTU2A.134

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

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

Projektiyöskentelyn kehittäminen yläkoulun matematiikan opetuksessa

Viro, I. E. & Joutsenlahti, J., 2018, In : *FMSERA Journal* . 2, 1, p. 90-99 10 p.

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

Real-time human pose estimation with convolutional neural networks

Linna, M., Kannala, J. & Rahtu, E., 2018, *VISIGRAPP 2018 - Proceedings of the 13th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications*. SCITEPRESS, Vol. 5. p. 335-342 8 p.

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

Real-time measurements of nonlinear instabilities in optical fibers

Ryczkowski, P., Närhi, M., Billet, C., Merolla, J. M., Dudley, J. M. & Genty, G., 2018, *CLEO: Applications and Technology, CLEO_AT 2018*. OSA - The Optical Society

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

Resonant harmonic generation in AlGaAs nanoantennas using cylindrical vector beams

Camacho-Morales, R., Bautista, G., Zang, X., Xu, L., Turquet, L., Miroshnichenko, A., Lampryanidis, A., Rahmani, M., Neshev, D. N. & Kauranen, M., 2018, *CLEO: QELS_Fundamental Science 2018*. The Optical Society; OSA, 2 p. FF1E.6

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

Sub-parts-per-trillion sensitivity in trace gas detection by cantilever-enhanced photo-acoustic spectroscopy

Tomberg, T., Vainio, M., Hieta, T. & Halonen, L., 2018, *CLEO: Applications and Technology, CLEO_AT 2018*. OSA - The Optical Society

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

Underpinning Interrelated Factors of Physical, Virtual, and Social Learning Environments

Kangas, J. & Poutanen, J., 2018, *ICERI2018 Proceedings*. p. 8087-8096 (ICERI proceedings).

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

What's inside a rubble pile asteroid? DISCUS - A tomographic twin radar Cubesat to find out

Bambach, P., Deller, J., Martel, J., Vilenius, E., Goldberg, H., Sorsa, L.-I., Pursiainen, S., Takala, M., Wurster, A., Braun, H. M., Lentz, H., Jutzi, M., Wittig, M., Chitu, C. C., Ritter, B. & Karatekin, O., 2018, *69th International Astronautical Congress, IAC 2018*. (Proceedings of the International Astronautical Congress, IAC).

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

Yliopistomatematiikan sähköisten tehtävien ja matemaattisen ajattelun kehittäminen

Myllykoski, T. J., Mattila, P., Ali-Löytty, S., Kaarakka, T. & Viro, E., 2018, In : *FMSERA Journal* . 2, 1, p. 46-56 11 p.

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

基于相位旋转的SCMA码本优化方法

Translated title of the contribution: : SCMA codebook optimization method based on phase rotation
Shao, K., Zhou, B., Wang, G. & Yu, B., 2018, In : Xi Tong Gong Cheng Yu Dian Zi Ji Shu/Systems Engineering and Electronics. 40, 10, p. 2354-2362 9 p.

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

Assessing the usefulness of an early idea development tool among experienced researchers

Saari, U., Aarikka-Stenroos, L., Boedeker, S., Köppä, L. & Langwaldt, J., 22 Dec 2017, In : CERN IdeaSquare Journal of Experimental Innovation. 1, 2, p. 3-8 6 p.

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

Mechanisms of disruptive technological change: Case studies in transformation of traditional industries

Sommarberg, M. & Mäkinen, S., 1 Dec 2017, *Proceedings in 2017 Portland International Conference in Management and Engineering (PICMET): (PICMET) 9-13 July 2017*. IEEE, p. 1-10 10 p.

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

Sata vuotta vesihuoltoa Suomessa

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Re-inventing organizational creativity and innovation through adopting a service-based working culture

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

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

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

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

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

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

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

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

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

Real Time Measurements of Temporal Rogue Waves and Spontaneous Modulation Instability in Optical Fiber

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

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

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

Relations between civil engineering students' approaches to learning, perceptions of the development of professional skills and perceived workload

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

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Roadmap towards the vision of the future power system and electricity market

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

Role of Power and Sense Making in the Briefing of a Small Renovation Project

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

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

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

Site-controlled InAs Quantum Dots for Plasmonics

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

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

Spatial borders and affordances of a temporary school building – Enhancing the school engagement and learning experience

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

STACK assignments in university mathematics education

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

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

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

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

The role of the purchasing function in non-financial value creation

Jääskeläinen, A., Thitz, O. & Heikkilä, J., 2016, *25th Proceedings of IPSERA 2016 conference, : 20-23.3.2016, Dortmund, Germany..*

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

The Workplace for Researchers – Enhancing Concentration and Face-to-face Interaction

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

Towards responsive workspaces - identification of service paths for time-and-place independent work

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

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

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

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

Обзор параметрических методов позиционирования на основе концепции отпечатка пальца

Translated title of the contribution: : A Survey of Parametric Fingerprint-Positioning Methods

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

Turvallisuuden johtajat - Esimiesten johtajuus, osaaminen ja sitoutuminen

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Research output: Book/Report › Commissioned report › Professional

Bispectrum-based demodulation technique using triple-channel heterodyning of triplet-signal

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

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

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

Platform Competences to Enhance Network Effects in Business Ecosystems

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

Preparation and antimicrobial characterization of silver-containing packaging materials for meat

Kuuliala, L., Pippuri, T., Hultman, J., Auvinen, S-M., Kolppo, K., Nieminen, T., Karp, M., Björkroth, J., Kuusipalo, J. & Jääskeläinen, E., 1 Dec 2015, In : *Food Packaging and Shelf Life*. 6, p. 53-60 8 p., 67.

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

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