Suominen, Milla; Lehtimäki, Suvi; Yewale, Rahul; Damlin, Pia; Tuukkanen, Sampo; Kvamström, Carita / Electropolymerized polyazulene as active material in flexible supercapacitors.
Research output: Scientific - peer-review › Article

Virtanen, Juhani; Pammo, Arno; Keskinen, Jari; Sarlin, Essi; Tuukkanen, Sampo / Pyrolysed cellulose nanofibrils and dandelion pappus in supercapacitor application.
In: Cellulose, 24.05.2017.
Research output: Scientific - peer-review › Article

Mangayil, Rahul; Rajala, Satu; Pammo, Arno; Sarlin, Essi; Luo, Jin; Santala, Ville; Karp, Matti; Tuukkanen, Sampo / Engineering and Characterization of Bacterial Nanocellulose Films as Low Cost and Flexible Sensor Material.
In: ACS Applied Materials & Interfaces, 16.05.2017.
Research output: Scientific - peer-review › Article

Shamani, Farid; Fakour Sevom, Vida; Ahonen, Tapani; Nurmi, Jari / Integration issues of a run-Time Configurable Memory Management Unit to a RISC Processor on FPGA.
Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Anthology

Lohan, Elena-Simona; Seco-Granados, Gonzalo; Wymeersch, Henk; Nykänen, Ossi; Nurmi, Jari / Conclusions.
Research output: Scientific - peer-review › Chapter

Frattasi, Simone; Figueiras, Joao; Della Rosa, Francescantonio / Cooperative Mobile Positioning.
Research output: Scientific - peer-review › Chapter

Nouri, Sajjad; Hussain, Waqar; Göhringer, Diana; Nurmi, Jari / Design and Implementation of IEEE 802.11a/g Receiver Blocks on a Coarse-Grained Reconfigurable Array.
Research output: Scientific - peer-review › Chapter

Hussain, Waqar; Hoffmann, Henry; Ahonen, Tapani; Nurmi, Jari / Design Transformation from a Single-Core to a Multi-Core Architecture Targeting Massively Parallel Signal Processing Algorithms.
Research output: Scientific - peer-review › Chapter

Loulou, Alaa; Yli-Kaakinen, Juha; Renfors, Markku / Efficient fast-convolution based implementation of 5G waveform processing using circular convolution decomposition.
Research output: Scientific - peer-review › Conference contribution

Shao, Kai; Pi, Luping; Yli-Kaakinen, Juha; Renfors, Markku / Filtered multitone multicarrier modulation with partially overlapping sub-channels.

Research output: Scientific - peer-review › Conference contribution

Della Rosa, Francescantonio; Pelosi, Mauro; Nurmi, Jari / Indoor Positioning in WLAN.

Research output: Scientific - peer-review › Chapter

Lohan, Elena-Simona; Wymeersch, Henk; Nykänen, Ossi; Nurmi, Jari; Seco-Granados, Gonzalo / Introduction and Book Structure.

Research output: Scientific - peer-review › Chapter

Figueiredo E Silva, Pedro; Ferrara, Nunzia; Daniel, Ondrej; Nurmi, Jari; Lohan, Elena-Simona / Mapping the Radio World to Find Us.

Research output: Scientific - peer-review › Chapter

Ferrara. Nunzia; Daniel, Ondrej; Figueiredo E Silva, Pedro; Nurmi, Jari; Lohan, Elena-Simona / Multi-GNSS: Facts and Issues.

Research output: Scientific - peer-review › Chapter

Lohan, Elena-Simona; Nurmi, Jari; Seco-Granados, Gonzalo; Wymeersch, Henk; Nykänen, Ossi / MULTI-POS: Lessons Learnt from Fellows and Supervisors.

Research output: Scientific - peer-review › Chapter

Nurmi, Jari (Editor); Lohan, Elena-Simona (Editor); Wymeersch, Henk (Editor); Seco-Granados, Gonzalo (Editor); Nykänen, Ossi (Editor) / Multi-Technology Positioning.

Research output: Scientific - peer-review › Anthology

Airoldi, Roberto; Garzia, Fabio; Ahonen, Tapani; Nurmi, Jari / Ninesilica: A Homogeneous MPSoC Approach for SDR Platforms.

Research output: Scientific - peer-review › Chapter

Yli-Kaakinen, Juha; Levanen, Toni; Renfors, Markku; Valkama, Mikko / Optimized fast convolution based filtered-OFDM processing for 5G.

Research output: Scientific - peer-review › Conference contribution

Santambrogio, Marco D. (Editor); Göhringer, Diana (Editor); Stroobandt, Dirk (Editor); Mentens, Nele (Editor); Nurmi, Jari (Editor) / Proceedings of 2017 27th International Conference on Field Programmable Logic and Applications (FPL).

Research output: Scientific - peer-review › Anthology


Martelius, Mikko; Stadius, Kari; Lemberg, Jerry; Nieminen, Tero; Anttila, Lauri; Valkama, Mikko / Multilevel outphasing power amplifier system with a transmission-line power combiner. Conference on Ph.D. Research in Microelectronics and Electronics (PRIME 2016). IEEE, 2016.


Lupo, Donald; Clemens, Wolfgang; Breitung, Sven; Hecker, Klaus / Market Perspectives and Road Map for Organic Electronics. Organic and Printed Electronics: Fundamentals and Applications. ed. / Donald Lupo; Giovanni Nisato; Simone Ganz. 1. ed. Singapore : PAN STANFORD PUBLISHING, 2016. p. 509-536.

Nisato, Giovanni (Editor); Lupo, Donald (Editor); Ganz, Simone (Editor) / Organic and Printed Electronics: Fundamentals and Applications. 1 ed. Singapore : PAN STANFORD PUBLISHING, 2016. 580 p.
Rajala, S.; Mettänen, M.; Tuukkanen, S. / Structural and Electrical Characterization of Solution-Processed Electrodes for Piezoelectric Polymer Film Sensors.
Research output: Scientific - peer-review › Article

Nurmi, Jari; Lohan, Elena-Simona / MULTI-POS: Marie Curie Network in Multi-technology Positioning.
Research output: Scientific - peer-review › Conference contribution

Ghazi, Amanullah; Boutellier, Jani; Anttila, Lauri; Juntti, Markku; Valkama, Mikko / Data-Parallel Implementation of Reconfigurable Digital Predistortion on a Mobile GPU.
Research output: Scientific - peer-review › Conference contribution

Abdelaziz, Mahmoud; Tarver, Chance; Li, Kaipeng; Anttila, Lauri; Martinez, Raul; Valkama, Mikko; Cavallaro, Joseph R / Sub-band Digital Predistortion for Noncontiguous Transmissions: Algorithm Development and Real-Time Prototype Implementation.
Research output: Scientific - peer-review › Conference contribution

Liu, Jun; Wang, Jianhua; Virkki, Johanna; Björninen, Toni; Sydänheimo, Lauri; Cheng, Liangjun; Ukkonen, Leena / Brush-painting and photonical sintering of copper and silver inks on cotton fabric to form antennas for wearable ultra-high-frequency radio-frequency identification tags.
Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Article

Rocherullé, J.; Massera, J.; Oudadesse, H.; Calvez, J.; Trolès, J.; Zhang, X. H. / Heat capacities of crystalline and glassy lithium metaphosphate up to the transition region.
Research output: Scientific - peer-review › Article

Koivisto, Mike; Costa, Mario Jorge; Hakkarainen, Aki; Leppänen, Kari; Valkama, Mikko / Joint 3D Positioning and Network Synchronization in 5G Ultra-Dense Networks Using UKF and EKF.
Research output: Scientific - peer-review › Conference contribution

Yli-Kaakinen, Juha; Levanen, Toni; Aghababaetafreshi, Mona; Renfors, Markku; Valkama, Mikko / Optimization of parallel processing intensive digital front-end for IEEE 802.11ac receiver.
Research output: Scientific - peer-review › Conference contribution

Mäntysalo, Matti; Vuorinen, Tiina; Suikkola, Jari / Printed epidermal electronic system.
Research output: Scientific › Paper, poster or abstract
Research output: Scientific - peer-review › Article

Stockrahm, Alex; Kangas, Jari; Kotiuga, P. Robert / Tools for Visualizing Cuts in Electrical Engineering Education.
Research output: Scientific - peer-review › Article

Tampere University of Technology, 2015. 43 p. (Tampere University of Technology. Publication; Vol. 1341).
Research output: Collection of articles › Doctoral Thesis

Khan, M. Waqas A.; Björninen, Toni; Sydänheimo, Lauri; Ukkonen, Leena / Characterization of Two-Turns External Loop Antenna with Magnetic Core for Efficient Wireless Powering of Cortical Implants.
Research output: Scientific - peer-review › Article

Rizwan, Muhammad; Khan, Waqas A.; Sydänheimo, Lauri; Ukkonen, Leena / Performance Evaluation of Circularly Polarized Patch Antenna on Flexible EPDM Substrate Near Human Body.
Research output: Scientific - peer-review › Conference contribution

Tuukkanen, Sampo; Rajala, Satu / A survey of printable piezoelectric sensors.
Research output: Scientific - peer-review › Conference contribution

Järvenhaara, Jani; Herzog, Hans; Siplä, Sami; Tian, Jing; Filanovsky, Igor M.; Tchamov, Nikolay T. / High speed DC-DC dead time architecture.
In: IEICE Electronics Express, Vol. 12, No. 19, 20150662, 10.10.2015.
Research output: Scientific - peer-review › Article

Tamminen, Pasi; Viheriäkoski, Toni; Sydänheimo, Lauri; Ukkonen, Leena / ESD qualification data used as the basis for building electrostatic discharge protected areas.
Research output: Scientific - peer-review › Article

Viheriäkoski, Toni; Kohtamäki, Jari; Peltoniemi, Terttu; Tamminen, Pasi / Benchmarking of Factory Level ESD Control.
Research output: Scientific - peer-review › Conference contribution

Tamminen, Pasi; Viheriäkoski, Toni; Ukkonen, Leena; Sydänheimo, Lauri / ESD and Disturbance Cases in Electrostatic Protected Areas.
Research output: Scientific - peer-review › Conference contribution

Tamminen, Pasi; Ukkonen, Leena; Sydänheimo, Lauri / The effect of USB ground cable and product dynamic capacitance on IEC61000-4-2 qualification.
Research output: Scientific - peer-review › Conference contribution

Viheriäkoski, Toni; Kohtamäki, Jari; Peltoniemi, Terttu; Tamminen, Pasi / Uncertainties in Charge Measurements of ESD Risk Assessment.
Pääkkönen, Rauno; Korpinen, Leena; Gobba, Fabriziomaria / Occupational exposure to magnetic fields while working around a reactor at a 400 kV substation in Finland.
Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Tarao, Hiroo; Pääkkönen, Rauno; Gobba, Fabriziomaria / Possibility of decreasing 50 Hz electric field exposure with different coveralls under 400 kV power lines.
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Kuisti, Harri; Tarao, Hiroo; Elovaa, Jarmo; Virtanen, Vesa / Cardiac pacemakers in magnetic fields of a shunt reactor at a 400 kV substation.
Research output: Scientific - peer-review › Article

Korpinen, Leena; Pääkkönen, Rauno / Self-reported depression and anxiety symptoms and usage of computers and mobile phones among working-age Finns.
Research output: Scientific - peer-review › Article

Laurila, Mika-Matti; Soltani, Ayat; Mäntysalo, Matti / Inkjet printed single layer high-density circuitry for a MEMS device.
Research output: Scientific - peer-review › Conference contribution

Pääkkönen, Rauno; Lundström, Marko; Mustaparta, Jari ; Korpinen, Leena / Emission of Smart Meter Electric Fields (50 - 100 kHz) in Finland.
Research output: Scientific - peer-review › Conference contribution

Pääkkönen, Rauno; Lundström, Marko; Mustaparta, Jari ; Korpinen, Leena / Examples of Electromagnetic Field Sources in an Indoor Distribution Substation.
Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Pääkkönen, Rauno; Tarao, Hiroo; Okun, Oleksandr; Sydänheimo, Lauri / Examples of Variation in Measured ELF Electric Fields under 400 kV Power Lines.
Research output: Scientific - peer-review › Conference contribution

Rizwan, Muhammad; Sydänheimo, Lauri; Ukkonen, Leena / Impact of Bending on the Performance of Circularly Polarized Wearable Antenna.
Korpinen, Leena; Tarao, Hiroo; Pääkkönen, Rauno; Okun, Oleksandr; Sydänheimo, Lauri / **Influences of High Relative Humidity on Extremely Low Frequency Electric Field Measurements.**
Research output: Scientific - peer-review › Conference contribution

Tarao, Hiroo; Aga, Katsuaki ; Okun, Oleksandr; Korpinen, Leena / **Numerical Estimation of Muscle Conductivity in Terms of Human Body Internal Resistance.**
Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Okun, Oleksandr; Sydänheimo, Lauri / **Possible Methods for Limiting Exposure to the Electric Fields of High Voltage Power Lines on Active Implantable Medical Devices in the Human Body.**
Research output: Scientific - peer-review › Conference contribution

Mendes, Miguel Rodrigues; Subramanijam, Narayan Puthanmadam; Wendel-Mitoraj, Katrina / **Evaluating the electrode measurement sensitivity of subdermal electroencephalography electrodes.**
Research output: Scientific - peer-review › Conference contribution

Koski, Karoliina; Moradi, Elham; Hasani, Masoumeh; Virkki, Johanna; Björninen, Toni; Rahmat-Samii, Yahya; Ukkonen, Leena / **Electro-textiles – The enabling technology for wearable antennas in wireless body-centric sensing systems.**
Research output: Scientific - peer-review › Conference contribution

Behfar, Mohammadhossein; Moradi, Elham; Björninen, Toni; Sydänheimo, Lauri; Ukkonen, Leena / **Evaluation of an implantable passive sensor for wireless intracranial pressure monitoring.**
Research output: Scientific - peer-review › Conference contribution

Khonsari, Zahra; Björninen, Toni; Sydänheimo, Lauri; Tentzeris, Manos M.; Ukkonen, Leena / **Inkjet-printed monopole antenna and voltage doubler on cardboard for RF energy harvesting.**
Research output: Scientific - peer-review › Conference contribution

Björninen, Toni; Virkki, Johanna; Sydänheimo, Lauri; Ukkonen, Leena / **Possibilities of 3D direct write dispensing for textile UHF RFID tag manufacturing.**
Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Pääkkönen, Rauno; Bobba, Fabriziomaria / **Self-reported ache, pain, or numbness in hip and lower back and use of computers and cell phones amongst Finns aged 18–65.**
Research output: Scientific - peer-review › Article

Niittynen, Juha; Sowade, Enrico; Kang, Hyunkyoo; Baumann, Reinhard R.; Mäntysalo, Matti / Comparison of laser and intense pulsed light sintering (IPL) for inkjet-printed copper nanoparticle layers.
In: Scientific Reports, Vol. 5, 8832, 06.03.2015.
Research output: Scientific - peer-review › Article

Moradi, E.; Koski, K.; Hasani, M.; Rahmat-Samii, Y.; Ukkonen, L. / Antenna design considerations for far field and near field wireless body-centric systems.
Research output: Scientific - peer-review › Conference contribution

Webb, R. Chad; Pielak, Rafal M.; Bastien, Philippe; Ayers, Joshua; Niittynen, Juha; Kurniawan, Jonas; Manco, Megan; Lin, Athena; Cho, Nam Heon; Malychuk, Viktor; Balooch, Guive; Rogers, John A. / Thermal transport characteristics of human skin measured in vivo using ultrathin conformal arrays of thermal sensors and actuators.
Research output: Scientific - peer-review › Article

Tampere University of Technology, 2015. 55 p. (Tampere University of Technology. Publication; Vol. 1274).
Research output: Collection of articles › Doctoral Thesis

Khonsari, Zahra; Björninen, Toni; Tentzeris, Manos M.; Sydänheimo, Lauri; Ukkonen, Leena / 2.4 GHz inkjet-printed RF energy harvester on bulk cardboard substrate.
Research output: Scientific - peer-review › Conference contribution

Koski, Karoliina; Moradi, Elham; Björninen, Toni; Apostolos, Georgiadis / Highlights of 2014 IEEE RFID Technology and Applications Conference.
Research output: Scientific › Article

Korpinnen, Leena; Pääkkönen, Rauno; Gobba, Fabriziomaria / Accidents and Close Call Situations Connected to the Use of Mobile Phones in Working-Age People ≥ 50 Years Old.
Research output: Scientific - peer-review › Article

Hasani, Masoumeh; Vena, Arnaud; Sydänheimo, Lauri; Tentzeris, Manos M.; Ukkonen, Leena / A Novel Enhanced-Performance Flexible RFID-Enabled Embroidered Wireless Integrated Module for Sensing Applications.
Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Article

Moradi, Elham; Amendola, Sara; Björninen, Toni; Sydänheimo, Lauri; Carmena, Jose M.; Rabaey, Jan M.; Ukkonen, Leena / Backscattering neural tags for wireless brain-machine interface systems.
Research output: Scientific - peer-review › Article

Salpavaara, Timo; Ellä, Ville; Kellomäki, Minna; Lekkala, Jukka / Biodegradable passive resonance sensor : Fabrication and initial testing.
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review ›Article

Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Article
Korpinen, Leena; Pääkkönen, Rauno / Examples of occupational exposure to electric and magnetic fields at 110-kV gas-insulated substations (GISs).
Research output: Scientific - peer-review › Article

Korpinen, Leena; Pääkkönen, Rauno / Examples of the Teaching of the Health Questions of Electric and Magnetic Fields at Tampere University of Technology in Finland.
Research output: Scientific - peer-review › Article

Pääkkönen, Rauno; Lundström, Marko; Mustaparta, Jari ; Korpinen, Leena / Exposure to RF fields during the remote readings of the smart meter in Finland.
Research output: Scientific - peer-review › Article

Akbari, Mitra; Sydänheimo, Lauri; Juuti, Jari; Ukkonen, Leena / Flash Reduction of Inkjet Printed Graphene Oxide on Flexible Substrates for Electronic Applications.
Research output: Scientific - peer-review › Conference contribution

Sand, Antti; Rakkolainen, Ismo; Isokoski, Poika; Kangas, Jari; Raisamo, Roope; Palovuori, Karri / Head-mounted Display with Mid-air Tactile Feedback.
Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Gobba, Fabriziomaria / Health surveillance according to the new EU directive 2013/35/EU: possible criteria.
Research output: Scientific - peer-review › Article

Palovuori, Karri; Rakkolainen, Ismo / Improved Interaction for Mid-Air Projection Screen Technology.
Handbook of Research on Interactive Information Quality in Expanding Social Network Communications. IGI Global, 2015. p. 84-103.
Research output: Scientific - peer-review › Chapter

Vuorinen, Tiina; Niittynen, Juha; Kankkunen, Timo; Lammi, Toni; Mäntysalo, Matti / Inkjet-printed push-buttons for epidermal electronics.
Research output: Scientific - peer-review › Conference contribution

Saghlatoon, Hossein; Björninen, Toni; Sydänheimo, Lauri; Tentzeris, Manos M.; Ukkonen, Leena / Inkjet-printed wideband planar monopole antenna on cardboard for RF energy-harvesting applications.
Research output: Scientific - peer-review › Article

Fischer, Andreas C.; Mäntysalo, Matti; Niklaus, Frank / Inkjet Printing, Laser Based Micromachining and Micro 3D Printing Technologies for MEMS.
Research output: Scientific - peer-review › Chapter

Pääkkönen, Rauno; Gobba, Fabriziomaria; Korpinen, Leena / LED Lighting Interviews and Assessment in Forest Machines.
Research output: Scientific - peer-review › Article

Niittynen, Juha; Abbel, Robert; Mäntysalo, Matti; Perelaer, Jolke; Schubert, Ulrich S.; Lupo, Donald / Alternative sintering methods compared to conventional thermal sintering for inkjet printed silver nanoparticle ink. 
Research output: Scientific - peer-review › Article

Korpinen, Leena; Pääkkönen, Rauno / Altistaako vai ei - Etäluettavat sähkömittarit kartoitettiin. 
Research output: Professional › Article

Muller, Rikky; Le, Hanh-Phuc; Li, Wen; Ledochowitsch, Peter; Gambini, Simone; Björminen, Toni; Koralek, Aaron; Carmena, Jose M.; Maharbiz, Michel M.; Alon, Elad; Rabaey, Jan M. / A miniaturized 64-channel 225μW wireless electrocorticographic neural sensor. 
Research output: Scientific - peer-review › Conference contribution

Moradi, Elham; Björminen, Toni; Sydänheimo, Lauri; Ukkonen, Leena / Analysis of Biotelemetric Interrogation of Chronically Implantable Intracranial Capacitive Pressure Sensor. 
Research output: Scientific - peer-review › Conference contribution

Koski, Karoliina; Björminen, Toni; Sydänheimo, Lauri; Ukkonen, Leena; Rahmat-Samii, Yahya / A New Approach and Analysis of Modeling the Human Body in RFID-Enabled Body-Centric Wireless Systems. 
Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Article

Vena, Arnaud; Tedjini, Marwan; Björminen, Toni; Sydänheimo, Lauri; Ukkonen, Leena; Tentzeris, Manos M. / A Novel Inkjet-Printed Wireless Chipless Strain and Crack Sensor on Flexible Laminates. 
Research output: Scientific - peer-review › Conference contribution

Hasani, Masoumeh; Vena, Arnaud; Sydänheimo, Lauri; Ukkonen, Leena; Tentzeris, Manos M. / A novel RFID-enabled strain sensor using the double power measurement technique. 
Research output: Scientific - peer-review › Conference contribution

Björminen, Toni; Saghiatloo, Hossein; Sydänheimo, Lauri; Rahmat-Samii, Yahya; Ukkonen, Leena / Antennas for Small Metal Mountable Passive UHF RFID Tags: Challenges and Advances. 
Research output: Scientific - peer-review › Article
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Article

Korpinen, Leena; Kuisti, Harri; Tarao, Hiroo; Pääkkönen, Rauno; Elovaara, Jarmo / Comparison of electric field exposure measurement methods under power lines. In: Radiation Protection Dosimetry, Vol. 158, No. 2, 2014, p. 221-223.
Research output: Scientific - peer-review › Article
Moradi, Elham; Björninen, Toni; Sydänheimio, Lauri; Ukkonen, Leena / **Comparison of inkjet-printed and microfabricated loop antennas for implants in wireless brain-machine interface systems.**
Research output: Scientific - peer-review › Conference contribution

Okun, Olexandr; Korpinen, Leena / **Comparison of methods to define power line and substation's busbar wire capacitances in electric field calculation task.**
Research output: Scientific - peer-review › Conference contribution

Puolakka, A.; Hakala, T.; Vuorela, T.; Nousiainen, P.; Vanhala, J. / **Compression stockings with integrated ICT for customized performance.**
Research output: Scientific - peer-review › Conference contribution

Vainio, Anti-Matti; Pensas, Harri; Vanhala, Jukka / **Context Recognition in a Smart Home: Living Experiment.**
Research output: Scientific - peer-review › Conference contribution

Pääkkönen, R.; Korpinen, L. / **Co-operation between Industry, Authorities and Research Institutes in Environmental and Occupational Exposure to Electric and Magnetic Field Questions in Finland.**
Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Kuisti, Harri; Elovaara, Jarmo / **Current densities and total contact currents for 110 and 220 kV power line tasks.**
Research output: Scientific - peer-review › Article

Amendola, Sara; Moradi, Elham; Koski, Karoliina; Björninen, Toni; Sydänheimio, Lauri; Ukkonen, Leena; Rabaeys, Jan M.; Rahmat-Samii, Yahya / **Design and Optimization of mm-Size Implantable and Wearable On-Body Antennas for Biomedical Systems.**
Research output: Scientific - peer-review › Conference contribution

Virtanen, J.; Yang, F.; Ukkonen, L.; Elsherbeni, A.Z.; Babar, A.A.; Sydänheimio, L. / **Dual port temperature sensor tag for passive UHF RFID systems.**
Research output: Scientific - peer-review › Article

Sipilä, Erja; Virkki, Johanna; Sydänheimio, Lauri; Ukkonen, Leena / **Effect of Sintering Method on the Read Range of Brush-painted Silver Nanoparticle UHF RFID Tags on Wood and Polyimide Substrates.**
Research output: Scientific - peer-review › Conference contribution

Viheriäkoski, Toni; Kokkonen, Mika; Tamminen, Pasi; Karja, Eira; Hillberg, Jukka; Smallwood, Jeremy / **Electrostatic Threats in Hospital Environment.**
Research output: Scientific - peer-review › Conference contribution


Korpinen, Leena; Lähdetie, Artturi; Amundin, Åke; Piiippo, Hannu; Sydänheimo, Lauri / Example measurements of exposure to ELF magnetic fields on the metro station in Finland. 8th International Workshop on Biological Effects of Electromagnetic Fields, 21-26 September, 2014, Golden Sands, Varna, Bulgaria. 2014. p. 338-341. Research output: Scientific - peer-review › Conference contribution


Fu, Yan Yan; Chan, Yuk Lam; Yang, Ming Hao; Chan, Yan-Cheong; Virkki, Johanna; Björninen, Toni; Sydänheimo, Lauri; Ukkonen, Leena / Experimental Study on the Washing Durability of Electro-Textile UHF RFID Tags. In: IEEE Antennas and Wireless Propagation Letters, Vol. 14, 2014, p. 466-469. Research output: Scientific - peer-review › Article


Pääkkönen, Rauno; Lundström, Marko; Mustaparta, Jari; Korpinen, Leena / Exposure to RF fields during the remote readings of the smart meter in Finland. 8th International Workshop on Biological Effects of Electromagnetic Fields, 21-26 September, 2014, Golden Sands, Varna, Bulgaria. 2014. p. 94-96. Research output: Scientific - peer-review › Conference contribution

Lehtimäki, Suvi; Pörhönen, Juho; Tuukkanen, Sampo; Moilanen, Pasi; Virtanen, Jorma; Lupo, Donald / Fabrication and characterization of solution-processed carbon nanotube supercapacitors. 2013 MRS Fall Meeting - Symposium SS/XX - Micro- and Nanoscale Systems - Novel Materials, Structures and Devices. MATERIALS RESEARCH SOCIETY, 2014. Research output: Scientific - peer-review › Conference contribution
Janka, Marika; Raumonen, Pasi; Tuukkanen, Sampo; Lupo, Donald / Modelling of Joule heating based self-alignment method for metal grid line passivation.  
Research output: Scientific - peer-review › Conference contribution

Gobba, Fabriziomaria; Rossi, Paolo; Bravo, Giulia; Contessa, Gian Marco; Korpinen, Leena / Occupational and environmental exposure to extremely low frequency-magnetic fields in a large group of workers.  
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Article

Saghlatoon, Hossein; Sydänheimo, Lauri; Ukkonen, Leena; Tentzeris, Manos / Optimization of Inkjet Printing of Patch Antennas on Low-Cost Fibrous Substrates.  
Research output: Scientific - peer-review › Article

Janka, M.; Saukko, E.; Raumonen, P.; Lupo, D. / Optimization of large-area OLED current distribution grids with self-aligned passivation.  
Research output: Scientific - peer-review › Article

Saghlatoon, Hossein; Sydänheimo, Lauri; Ukkonen, Leena; Tentzeris, Manos M. / Optimized RF/microwave antennas and circuits on low-cost fibrous substrates using inkjet-printing technology.  
Research output: Scientific - peer-review › Conference contribution

Smallwood, Jeremy; Tamminen, Pasi; Viheriäkoski, Toni / Optimizing investment in ESD control.  
Research output: Scientific - peer-review › Conference contribution

Li, Miao; Heljo, Petri S.; Lupo, Donald / Organic Rectifying Diode and Circuit for Wireless Power Harvesting at 13.56 MHz.  
Research output: Scientific - peer-review › Article

Hasani, Masoumeh; Lohan, Elena-Simona; Sydänheimo, Lauri; Ukkonen, Leena / Path-Loss Model of Embroidered Passive RFID Tag on Human Body for Indoor Positioning Applications.  
Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Pääkkönen, Rauno / Possibility to decreasing the 50 Hz electric field exposure with different jackets.  
Research output: Scientific - peer-review › Conference contribution

Gobba, Fabriziomaria; Korpinen, Leena / Possible criteria for health surveillance based on the new directive.  
Research output: Scientific - peer-review › Conference contribution

Pääkkönen, Rauno; Lundström, Marko; Mustaparta, Jari; Korpinen, Leena / Preliminary measurements of smart meter electromagnetic field (50-100 kHz) emissions in Finland.
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Zakrzewski, Mari; Palovuori, Karri; Vanhala, Jukka / Quadrature Channel Calibration with a Pendulum for Accurate Displacement Measurement with CW Doppler Radar.
Research output: Scientific - peer-review › Conference contribution

Zakrzewski, Mari; Singh, Aditya; Yavari, Ehsan; Gao, Xiaomeng; Boric-Lubecke, Olga; Vanhala, Jukka; Palovuori, Karri / Quadrature Imbalance Compensation With Ellipse-Fitting Methods for Microwave Radar Physiological Sensing.
Research output: Scientific - peer-review › Article

Niittynen, Juha; Koskinen, Santtu; Mäntysalo, Matti; Kiilunen, Janne; Pippola, Juha; Frisk, Laura / Reliability of Flex-to-Flex Interconnections on Inkjet-Printed PCBs Using Electrically Conductive Adhesives.
Research output: Scientific - peer-review › Conference contribution

Putaala, Jussi; Hannu, Jari; Kunnari, Esa; Mäntysalo, Matti; Nousiainen, Olli; Jantunen, Heli / Reliability of SMD interconnections on flexible low-temperature substrates with inkjet-printed conductors.
Research output: Scientific - peer-review › Article

Research output: Scientific - peer-review › Article

Hirvonen, Juha; Latifi, Seyed Kourosh; Palovuori, Karri; Kallio, Pasi / Semi-automatic Measurement of Microfibril Angle on a Microrobotic Platform.
Research output: Scientific - peer-review › Conference contribution

Björninen, Toni / Split ring antennas - A Less Explored Antenna Type in Far Field RFID Tags.
Research output: Scientific › Article

Research output: Scientific - peer-review › Conference contribution

Korpinen, L.; Pääkkönen, R. / The New Directive 2013/15/EU on Occupational Exposure to Electromagnetic Fields and Electrical Workers Exposure at 100kV Substations in Finland.
Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Pääkkönen, Rauno; Souques, Martine; Virtanen, Vesa / The new directive 2013/35/EU on occupational exposure to electric fields and electrical workers' use of implantable cardioverter defibrillators (ICDs).
Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Pääkkönen, Rauno; Souques, Martine; Virtanen, Vesa / The New Directive 2013/35/EU on Occupational Exposure to Electromagnetic Fields and Electrical Workers' Use of Cardiac Pacemakers.
Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Pääkkönen, Rauno; Gobba, Fabriziomaria / The Use and Know-how of ICT-technology in Different Age Groups.
Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Pääkkönen, Rauno; Gobba, Fabriziomaria / The Use of Computers in Different Age Groups and their Self-reported Neck Symptoms.
Research output: Scientific - peer-review › Conference contribution

Research output: Scientific - peer-review › Conference contribution

Occhionero, Vincenzo; Korpinen, Leena; Gobba, Fabriziomaria / Upper limb musculoskeletal disorders in healthcare personnel.
Research output: Scientific - peer-review › Article

Pensas, Harri; Vainio, Antti-Matti; Garschall, Markus; Kivimäki, Tero; Konakas, Stratis; Costicoglou, Socrates; Vanhala, Jukka / Using Ambient Communication and Social Networking Technologies to Reduce Loneliness of Elders.
Research output: Scientific - peer-review › Conference contribution

Moradi, Elham; Amendola, Sara; Björninen, Toni; Sydänheimo, Lauri; Ukkonen, Leena; Carmen, Jose M.; Rabaey, Jan M. / Wireless testing of ink-jet printed mm-size gold implant antennas for brain-machine interfaces.
Research output: Scientific - peer-review › Conference contribution
Lohan, Elena-Simona; Koski, Karoliina; Talvitie, Jukka; Ukkonen, Leena / **WLAN and RFID propagation channels for hybrid indoor positioning.**


Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Souques, Martine / **Workers at particular risk: the case of medical implants.**


Research output: Scientific - peer-review › Conference contribution

Huotari, Matti; Vehkaoja, Antti; Määttä, Kari; Röning, Juha / **Arterial pulse waves measured with EMFi and PPG sensors and comparison of the pulse waveform spectral and decomposition analysis in healthy young and elderly subjects.**


Research output: Scientific - peer-review › Article

Rantanen, Ville; Kumpulainen, Pekka; Venesvirta, Hanna; Verho, Jarmo; Spakov, Oleg; Lylykangas, Jani; Vetek, Akos; Surakka, Veikko; Lekkala, Jukka / **Capacitive facial activity measurement.**


Research output: Scientific - peer-review › Article

Rantanen, Ville; Venesvirta, Hanna; Spakov, Oleg; Verho, Jarmo; Vetek, Akos; Surakka, Veikko; Lekkala, Jukka / **Capacitive Measurement of Facial Activity Intensity.**


Research output: Scientific - peer-review › Article

Okun, O.; Shevchenko, S.; Korpinen, L. / **Comparison of design measures to reduce 50-Hz magnetic fields of high voltage power objects.**


Research output: Scientific - peer-review › Conference contribution

Korpinen, Leena; Kuisti, Harri; Elovaara, Jarmo / **Current densities and total contact currents associated with 400kV power line tasks.**


Research output: Scientific - peer-review › Article

Björninen, Toni; Moradi, Elham; Sydänheimo, Lauri; Carmena, Jose M.; Rabaey, Jan M.; Ukkonen, Leena / **Electromagnetic Modelling and Measurement of Antennas for Wireless Brain-Machine Interface Systems.**


Research output: Scientific - peer-review › Conference contribution

Venesvirta, Hanna; Surakka, Veikko; Lylykangas, Jani; Rantanen, Ville; Spakov, Oleg; Verho, Jarmo; Vetek, Akos; Lekkala, Jukka / **Face-hugging device for technology mediated human-human interaction.**


Research output: Scientific - peer-review › Conference contribution

Tuisku, Outi; Surakka, Veikko; Rantanen, Ville; Lekkala, Jukka / **Face Interface: Using voluntary gaze direction and facial muscle activations for human-computer interaction.**

Björninen, Toni / Improved loop matching techniques and other alternatives to achieve broadband impedance matching in antennas for far field RFID tags.
Research output: Scientific › Article

Korpinen, Leena; Pääkkönen, Rauno / Mielenkiintoinen direktiivi työntekijöiden sähkömagneettisille kentille altistumisesta valmistui.
Research output: Professional › Article

Research output: Scientific › peer-review › Conference contribution

Tarao, Hiroo; Hayashi, Noriyuki; Korpinen, Leena; Matsumoto, Takashi; Isaka, Katsuo / Numerical estimations of induced and contact currents in human body in contact with a car in 60 Hz electric fields.
Research output: Scientific › peer-review › Conference contribution

Pääkkönen, Rauno; Korpinen, Leena; Gobba, Fabriziomaria / Occupational exposure to electric and magnetic fields whilst working around power transformers at 110 kV substations in Tampere, Finland.
Research output: Scientific › peer-review › Conference contribution

Huotari, Matti; Vehkaoja, Antti; Määttä, Kari; Kostamovaara, Juha / Pulse waveforms are an indicator of the condition of vascular system.
Research output: Scientific › peer-review › Conference contribution

Research output: Scientific › peer-review › Conference contribution

Korpinen, Leena; Alanko, Tommi / Sähkö- ja elektroniikkateollisuuden ympäristökysymykset.
Tampereen teknillinen yliopisto, 2013. 120 p. (Tampereen teknillinen yliopisto. Elektronikan ja tietoliiketekniikan laitos. Opetusmoniste; No. 1).
Research output: Professional › Book

Kuisti, H.; Korpinen, L.; Elovaa, J.; Virtanen, V. / Testing Cardiac Pacemakers and Implantable cardioverter defibrillators (ICD) with a human-shaped phantom in the electric and magnetic fields of 400-kV power lines and of 400-kV substations.
Research output: Scientific › peer-review › Conference contribution
Saarinen, Kirsi; Frisk, Laura / *Reliability of UHF RFID tags in humid environments.*
Research output: Scientific - peer-review › Conference contribution

Palovuori, Karri (Inventor) / *Menetelmä visuaalisen informaation generoiniseksi.*
Patent No.: FI 91109.
Research output: Scientific › Patent