

- Antink, C. H., Pirhonen, M., Väättäjä, H., Somppi, S., Tornqvist, H., Cardo, A., ... Vehkaoja, A. (2019). Sensor Fusion for Unobtrusive Respiratory Rate Estimation in Dogs. *IEEE Sensors Journal*, 19(16), 7072-7081. <https://doi.org/10.1109/JSEN.2019.2912002>
- Ali, I., Suominen, O., Gotchev, A., & Morales, E. R. (2019). Methods for simultaneous robot-world-hand-eye calibration: A comparative study. *Sensors (Switzerland)*, 19(12), [2837]. <https://doi.org/10.3390/s19122837>
- Piche, R. (2019). Automatic numerical differentiation by maximum likelihood estimation of a linear Gaussian state space model. In *2019 18th European Control Conference, ECC 2019* (pp. 1861-1865). IEEE. <https://doi.org/10.23919/ECC.2019.8795960>
- Pyrhönen, V-P., & Vilkkö, M. K. (2019). Composite nonlinear feedback control of a JIB trolley of a tower crane behaviors. In *2019 18th European Control Conference, ECC 2019* (pp. 1124-1129). [8796229] IEEE. <https://doi.org/10.23919/ECC.2019.8796229>
- Asp, A., Hentilä, T., Valkama, M., Pikkuvirta, J., Hujanen, A., & Huhtinen, I. (2019). Impact of Different Concrete Types on Radio Propagation: Fundamentals and Practical RF Measurements. In J. J. P. C. Rodrigues, P. Solic, T. Perkovic, K. Vukojevic, J. J. P. C. Rodrigues, L. Patrono, & S. Nizetic (Eds.), *2019 4th International Conference on Smart and Sustainable Technologies, SpliTech 2019* IEEE. <https://doi.org/10.23919/SpliTech.2019.8783022>
- Wang, W., Okati, N., Tanash, I., Riihonen, T., & Lohan, E-S. (2019). Location-based beamforming architecture for efficient farming applications with drones. In E-S. Lohan, A. Rugamer, J. Nurmi, W. Koch, & A. Heuberger (Eds.), *2019 International Conference on Localization and GNSS, ICL-GNSS 2019* IEEE. <https://doi.org/10.1109/ICL-GNSS.2019.8752698>
- Pihlajasalo, J., Leppäkoski, H., Kuismanen, S., Ali-Löytty, S., & Piche, R. (2019). Methods for long-term GNSS clock offset prediction. In E-S. Lohan, A. Rugamer, J. Nurmi, W. Koch, & A. Heuberger (Eds.), *2019 International Conference on Localization and GNSS, ICL-GNSS 2019* IEEE. <https://doi.org/10.1109/ICL-GNSS.2019.8752725>
- Bezzateev, S., Voloshina, N., Zhidanov, K., & Ometov, A. (2019). Secure environmental monitoring for industrial internet of things: From framework to live implementation. In E-S. Lohan, A. Rugamer, J. Nurmi, W. Koch, & A. Heuberger (Eds.), *2019 International Conference on Localization and GNSS, ICL-GNSS 2019* IEEE. <https://doi.org/10.1109/ICL-GNSS.2019.8752764>
- Kekonen, A., Bergelin, M., Johansson, M., Kumar Joon, N., Bobacka, J., & Viik, J. (2019). Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H₂O₂ Using Low-Intensity Direct Current. *Sensors*, 19(11). <https://doi.org/10.3390/s19112505>
- Kahle, H., Phung, H-M., Penttinen, J-P., Rajala, P., Tukiainen, A., Ranta, S., & Guina, M. (2019). Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region. In *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings* IEEE. <https://doi.org/10.23919/CLEO.2019.8749958>
- Li, S., Bariah, L., Muhaidat, S., Sofotasios, P., Liang, J., & Wang, A. (2019). Error analysis of NOMA-based user cooperation with SWIPT. In *Proceedings - 15th Annual International Conference on Distributed Computing in Sensor Systems, DCOSS 2019* (pp. 507-513). IEEE. <https://doi.org/10.1109/DCOSS.2019.00098>
- Abdallah, Z., Stefszky, M., Ulvila, V., Silberhorn, C., & Vainio, M. (2019). Frequency Comb Generation in a Continuous-Wave Pumped Second-Order Nonlinear Waveguide Resonator. In *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings* IEEE. <https://doi.org/10.23919/CLEO.2019.8750403>
- Saad-Bin-Alam, M., Reshef, O., Huttunen, M. J., Carlow, G., Sullivan, B., Menard, J. M., ... Boyd, R. W. (2019). High-Q resonance train in a plasmonic metasurface. In *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings* IEEE. <https://doi.org/10.23919/CLEO.2019.8750206>

- Sadiek, I., Mikkonen, T., Vainio, M., Toivonen, J., & Foltynowicz, A. (2019). Optical Frequency Comb Photoacoustic Spectroscopy. In *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings IEEE*. <https://doi.org/10.23919/CLEO.2019.8749688>
- Kerst, T., Malmbeck, R., Ial Banik, N. L., & Toivonen, J. (2019). Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution. *Sensors (Switzerland)*, *19*(7), [1602]. <https://doi.org/10.3390/s19071602>
- Ometov, A., Bezzateev, S., Davydov, V., Shchesniak, A., Masek, P., Lohan, E. S., & Koucheryavy, Y. (2019). Positioning information privacy in intelligent transportation systems: An overview and future perspective. *Sensors*, *19*(7), [1603]. <https://doi.org/10.3390/s19071603>
- Kuang, Y., Ma, S., Ukkonen, L., Virkki, J., & Björninen, T. (2019). Circularly Polarized Textile Tag Antenna for Wearable Passive UHF RFID Systems. In *2018 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2018 IEEE*. <https://doi.org/10.23919/ACCESS.2018.8669314>
- Ma, S., Ukkonen, L., Sydänheimo, L., & Björninen, T. (2019). Comparison of Human Head Phantoms with Different Complexities for Implantable Antenna Development. In *2018 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2018 IEEE*. <https://doi.org/10.23919/ACCESS.2018.8669363>
- Berger, P. R., Li, M., Mattei, R. M., Niang, M. A., Talisa, N., Tripepi, M., ... Lupo, D. (2019). Advancements in Solution Processable Devices using Metal Oxides For Printed Internet-of-Things Objects. In *2019 Electron Devices Technology and Manufacturing Conference, EDTM 2019* (pp. 160-162). IEEE. <https://doi.org/10.1109/EDTM.2019.8731322>
- Pournoori, N., Ukkonen, L., Sydänheimo, L., & Björninen, T. (2019). Charge Storage Level Sensor RFID Tag: Impedance Matching and Experimental Characterisation. In *13th European Conference on Antennas and Propagation, EuCAP 2019 IEEE*.
- Kordelin, K., Virkki, J., Kordelin, J., Kuusman, J., Mattila, J., Johansson, M., ... Sydänheimo, L. (2019). Optimization of RFID-Based Tunnel Access Monitoring System Antenna Reading Areas. In *13th European Conference on Antennas and Propagation, EuCAP 2019* [8739592] IEEE.
- Semkin, V., Ponomarenko-Timofeev, A., Karttunen, A., Galinina, O., Andreev, S., & Koucheryavy, Y. (2019). Path Loss Characterization for Intra-Vehicle Wearable Deployments at 60 GHz. In *13th European Conference on Antennas and Propagation, EuCAP 2019 IEEE*.
- Khan, Z., Rizwan, M., Rusanen, R., Ukkonen, L., & Virkki, J. (2019). Strain Reliability of Embroidered Passive UHF RFID Tags on 3D-printed Substrates. In *13th European Conference on Antennas and Propagation, EuCAP 2019 IEEE*.
- Yoo, S. K., Cotton, S. L., Sofotasios, P. C., Muhaidat, S., Badarneh, O. S., & Karagiannidis, G. K. (2019). Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels. In *2018 IEEE Global Communications Conference* [8647778] IEEE. <https://doi.org/10.1109/GLOCOM.2018.8647778>
- Kovalchukov, R., Moltchanov, D., Begishev, V., Samuylov, A., Andreev, S., Koucheryavy, Y., & Samouylov, K. (2019). Improved Session Continuity in 5G NR with Joint Use of Multi-Connectivity and Guard Bandwidth. In *2018 IEEE Global Communications Conference, GLOBECOM 2018 IEEE*. <https://doi.org/10.1109/GLOCOM.2018.8647608>
- Rinne, J., Keskinen, J., Berger, P. R., Lupo, D., & Valkama, M. (2018). M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components. *Sensors (Basel, Switzerland)*, *18*(11). <https://doi.org/10.3390/s18113992>
- Solin, A., Cortes, S., Rahtu, E., & Kannala, J. (2018). Inertial Odometry on Handheld Smartphones. In *2018 21st International Conference on Information Fusion, FUSION 2018* (pp. 1361-1368). [8455482] IEEE. <https://doi.org/10.23919/ICIF.2018.8455482>

Rastorgueva-Foi, E., Costa, M., Koivisto, M., Leppänen, K., & Valkama, M. (2018). User Positioning in mmW 5G Networks Using Beam-RSRP Measurements and Kalman Filtering. In *2018 21st International Conference on Information Fusion, FUSION 2018* (pp. 1150-1156). [8455289] IEEE. <https://doi.org/10.23919/ICIF.2018.8455289>

Mäkinen, P., Mononen, T., & Mattila, J. (2018). Inertial Sensor-Based State Estimation of Flexible Links Subject to Bending and Torsion. In *2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018* [8449188] IEEE. <https://doi.org/10.1109/MESA.2018.8449188>

Teke, B., Lanz, M., Kämäräinen, J.-K., & Hietanen, A. (2018). Real-time and Robust Collaborative Robot Motion Control with Microsoft Kinect © v2. In *2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018* [8449156] IEEE. <https://doi.org/10.1109/MESA.2018.8449156>

Mahmoodpour, M., Lobov, A., Lanz, M., Mäkelä, P., & Rundas, N. (2018). Role-based visualization of industrial IoT-based systems. In *2018 14th IEEE/ASME International Conference on Mechatronic and Embedded Systems and Applications, MESA 2018* [8449183] IEEE. <https://doi.org/10.1109/MESA.2018.8449183>

Chen, X., He, H., Ukkonen, L., Virkki, J., Lu, Y., & Lam, H. (2018). Fabrication and reliability evaluation of passive UHF RFID T-shirts. In *2018 IEEE International Workshop on Antenna Technology, iWAT2018 - Proceedings* (pp. 1-4). IEEE. <https://doi.org/10.1109/IWAT.2018.8379146>

Pirhonen, M., Peltokangas, M., & Vehkaoja, A. (2018). Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra. *Sensors*, *18*(6), [1693]. <https://doi.org/10.3390/s18061693>

Virtanen, J., Somppi, S., Törnqvist, H., Jeyhani, V., Fiedler, P., Gizatdinova, Y., ... Vehkaoja, A. (2018). Evaluation of dry electrodes in canine heart rate monitoring. *Sensors*, *18*(6), [1757]. <https://doi.org/10.3390/s18061757>

Borges, L. R., Azzari, L., Bakic, P. R., Maidment, A. D. A., Vieira, M. A. C., & Foi, A. (2018). Restoration of low-dose digital breast tomosynthesis. *Measurement Science and Technology*, *29*(6), [064003]. <https://doi.org/10.1088/1361-6501/aab2f6>

Jeyhani, V., Mahdiani, S., Viik, J., Oksala, N., & Vehkaoja, A. (2018). A novel technique for analysis of postural information with wearable devices. In *2018 IEEE 15th International Conference on Wearable and Implantable Body Sensor Networks, BSN 2018* (pp. 30-33). IEEE. <https://doi.org/10.1109/BSN.2018.8329651>

Mehrang, S., Pietilä, J., & Korhonen, I. (2018). An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band. *Sensors*, *18*(2), [613]. <https://doi.org/10.3390/s18020613>

Mesaros, A., Heittola, T., Benetos, E., Foster, P., Lagrange, M., Virtanen, T., & Plumbley, M. D. (2018). Detection and Classification of Acoustic Scenes and Events: Outcome of the DCASE 2016 Challenge. *IEEE/ACM Transactions on Audio Speech and Language Processing*, *26*(2), 379-393. <https://doi.org/10.1109/TASLP.2017.2778423>

Koivikko, A., Raei, E. S., Mosallaei, M., Mäntysalo, M., & Sariola, V. (2018). Screen-printed curvature sensors for soft robots. *IEEE Sensors Journal*, *18*(1), 223-230. <https://doi.org/10.1109/JSEN.2017.2765745>

Nikunen, J., Diment, A., & Virtanen, T. (2018). Separation of Moving Sound Sources Using Multichannel NMF and Acoustic Tracking. *IEEE/ACM Transactions on Audio Speech and Language Processing*, *26*(2), 281-295. <https://doi.org/10.1109/TASLP.2017.2774925>

Rajala, S., Mattila, R., Kaartinen, I., & Lekkala, J. (2017). Designing, Manufacturing and Testing of a Piezoelectric Polymer Film In-Sole Sensor for Plantar Pressure Distribution Measurements. *IEEE Sensors Journal*, *17*(20), 6798-6805. <https://doi.org/10.1109/JSEN.2017.2750241>

- Koivumäki, J., & Mattila, J. (2017). Adaptive and nonlinear control of discharge pressure for variable displacement axial piston pumps. *Journal of Dynamic Systems, Measurement and Control: Transactions of the ASME*, 139(10), [101008]. <https://doi.org/10.1115/1.4036537>
- Välimäki, H., Verho, J., Kreutzer, J., Kattiparambil Rajan, D., Rynnänen, T., Pekkanen-Mattila, M., ... Lekkala, J. (2017). Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models. *Sensors and Actuators B: Chemical*, 249, 738-746. <https://doi.org/10.1016/j.snb.2017.04.182>
- Dong, G., Shen, Y., He, H., Virkki, J., & Hu, S. (2017). Chipless graphene tag and dual-CP reader for Internet of Things. In *2017 International Applied Computational Electromagnetics Society Symposium in China, ACES-China 2017 IEEE*.
- Uddin, R., Nur-E-Habiba, N., Rena, G., Hwu, E. T., & Boisen, A. (2017). New Evidence for the Mechanism of Action of a Type-2 Diabetes Drug Using a Magnetic Bead-Based Automated Biosensing Platform. *ACS Sensors*, 2(9), 1329-1336. <https://doi.org/10.1021/acssensors.7b00384>
- Drgas, S., Virtanen, T., Lücke, J., & Hurmalainen, A. (2017). Binary Non-Negative Matrix Deconvolution for Audio Dictionary Learning. *IEEE/ACM Transactions on Audio Speech and Language Processing*, 25(8), 1644-1656. <https://doi.org/10.1109/TASLP.2017.2709909>
- Rajan, D. K., Verho, J., Kreutzer, J., Valimaki, H., Ihalainen, H., Lekkala, J., ... Miettinen, S. (2017). Monitoring pH, temperature and humidity in long-term stem cell culture in CO₂ incubator. In *2017 IEEE International Symposium on Medical Measurements and Applications (MeMeA)* (pp. 470-474). IEEE. <https://doi.org/10.1109/MeMeA.2017.7985922>
- Henno, J., Jaakkola, H., & Mäkelä, J. (2017). Developing curiosity and multimedia skills with programming experiments. In *2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings* (pp. 694-699). IEEE. <https://doi.org/10.23919/MIPRO.2017.7973512>
- Linna, P., Mäkinen, T., & Yrjönkoski, K. (2017). Open data based value networks: Finnish examples of public events and agriculture. In *2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings* (pp. 1448-1453). IEEE. <https://doi.org/10.23919/MIPRO.2017.7973649>
- Jaakkola, H., Henno, J., Thalheim, B., & Mäkelä, J. (2017). The educators' telescope to the future of technology. In *2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings* (pp. 660-665). IEEE. <https://doi.org/10.23919/MIPRO.2017.7973506>
- Jaakkola, H., Henno, J., Mäkelä, J., & Thalheim, B. (2017). Today is the future of yesterday; What is the future of today? In *2017 40th International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2017 - Proceedings* (pp. 635-643). IEEE. <https://doi.org/10.23919/MIPRO.2017.7973502>
- Richard, G., Virtanen, T., Bello, J. P., Ono, N., & Glotin, H. (2017). Introduction to the Special Section on Sound Scene and Event Analysis. *IEEE/ACM Transactions on Audio Speech and Language Processing*, 25(6), 1169-1171. <https://doi.org/10.1109/TASLP.2017.2699334>
- Ometov, A., Solomitckii, D., Olsson, T., Bezzateev, S., Shchesniak, A., Andreev, S., ... Koucheryavy, Y. (2017). Secure and connected wearable intelligence for content delivery at a mass event: A case study. *Journal of Sensor and Actuator Networks*, 6(2), [5]. <https://doi.org/10.3390/jsan6020005>
- Vihonen, J., Mattila, J., & Visa, A. (2017). Joint-Space Kinematic Model for Gravity-Referenced Joint Angle Estimation of Heavy-Duty Manipulators. *IEEE Transactions on Instrumentation and Measurement*, 66(12), 3280-3288. <https://doi.org/10.1109/TIM.2017.2749918>
- Salpavaara, T., Hänninen, A., Antniemi, A., Lekkala, J., & Kellomäki, M. (2017). Non-destructive and wireless monitoring of biodegradable polymers. *Sensors and Actuators B: Chemical*, 251, 1018-1025. <https://doi.org/10.1016/j.snb.2017.05.116>

- Mathlouthi, M., Valkonen, A., Rzaigui, M., & Smirani, W. (2017). Structural characterization, spectroscopic, thermal, AC conductivity and dielectric properties and antimicrobial studies of $(C_8H_{12}N)_2[SnCl_6]$. *PHASE TRANSITIONS*, 90(4), 399-414. <https://doi.org/10.1080/01411594.2016.1212194>
- Barker, T., & Virtanen, T. (2016). Blind Separation of Audio Mixtures Through Nonnegative Tensor Factorization of Modulation Spectrograms. *Ieee-Acm transactions on audio speech and language processing*, 24(12), 2377-2389. <https://doi.org/10.1109/TASLP.2016.2602546>
- Acar, E., Peltonen, S., & Ruotsalainen, U. (2016). Adaptive multiresolution method for MAP reconstruction in electron tomography. *Ultramicroscopy*, 170, 24-34. <https://doi.org/10.1016/j.ultramic.2016.08.002>
- Rajala, S., Paajanen, M., & Lekkala, J. (2016). Measurement of sensitivity distribution map of a ferroelectret polymer film. *IEEE Sensors Journal*, 16(23), 8517-8522. <https://doi.org/10.1109/JSEN.2016.2613876>
- Kettunen, L., & Kovanen, T. (2016). Electromagnetism and cross-disciplinary problems. In *2016 URSI International Symposium on Electromagnetic Theory, EMTS 2016* (pp. 500-501). IEEE. <https://doi.org/10.1109/URSI-EMTS.2016.7571436>
- Naumenko, A., Krivenko, S., Lukin, V., & Egiazarian, K. (2016). Texture region detection by trained neural network. In *9th International Kharkiv Symposium on Physics and Engineering of Microwaves, Millimeter and Submillimeter Waves, MSMW 2016* IEEE. <https://doi.org/10.1109/MSMW.2016.7538174>
- Kokkonen, J., Lehtomäki, J., Petrov, V., Moltchanov, D., & Juntti, M. (2016). Frequency domain penetration loss in the terahertz band. In *2016 Global Symposium on Millimeter Waves (GSMM) & ESA Workshop on Millimetre-Wave Technology and Applications* IEEE. <https://doi.org/10.1109/GSMM.2016.7500309>
- Rubel, O., Lukin, V., & Egiazarian, K. (2016). On prediction of DCT-based denoising efficiency under spatially correlated noise conditions. In *2016 13th International Conference on Modern Problems of Radio Engineering, Telecommunications and Computer Science (TCSET)* (pp. 750-754). IEEE. <https://doi.org/10.1109/TCSET.2016.7452171>
- Viljanen, J., Sun, Z., & Alwahabi, Z. T. (2016). Microwave assisted laser-induced breakdown spectroscopy at ambient conditions. *Spectrochimica Acta Part B: Atomic Spectroscopy*, 118, 29-36. <https://doi.org/10.1016/j.sab.2016.02.002>
- Korobko, D. A., Okhotnikov, O. G., & Zolotovskii, I. O. (2016). Amplifier similariton laser with extra-broad bandwidth output pulse. *Laser Physics Letters*, 13(3), [035106]. <https://doi.org/10.1088/1612-2011/13/3/035106>
- Selvan, N. T., Eshwaran, S. B., Das, A., Stöckelhuber, K. W., Wießner, S., Pötschke, P., ... Heinrich, G. (2016). Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications. *Sensors and Actuators, A: Physical*, 239, 102-113. <https://doi.org/10.1016/j.sna.2016.01.004>
- Pajukoski, H., Näkki, J., Thieme, S., Tuominen, J., Nowotny, S., & Vuoristo, P. (2016). High performance corrosion resistant coatings by novel coaxial cold- and hot-wire laser cladding methods. *Journal of Laser Applications*, 28(1), [012011]. <https://doi.org/10.2351/1.4936988>
- Mesaros, A., Heittola, T., & Virtanen, T. (2016). Metrics for polyphonic sound event detection. *Applied Sciences*, 6(6), [162]. <https://doi.org/10.3390/app606162>
- Farooq, A., Evreinov, G., Raisamo, R., & Takahata, D. (2015). Evaluating transparent liquid screen overlay as a haptic conductor: Method of enhancing touchscreen based user interaction by a transparent deformable liquid screen overlay. In *2015 IEEE SENSORS - Proceedings* [7370186] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/ICSENS.2015.7370186>

Su, W., Cooper, J. R., Cook, B. S., Tentzeris, M. M., Mariotti, C., & Roselli, L. (2015). Inkjet-printed dual microfluidic-based sensor integrated system. In *2015 IEEE SENSORS - Proceedings* [7370300] Institute of Electrical and Electronics Engineers Inc.. <https://doi.org/10.1109/ICSENS.2015.7370300>

Auer, S., Koho, T., Uusi-Kerttula, H., Vesikari, T., Blazevic, V., & Hytönen, V. P. (2015). Rapid and sensitive detection of norovirus antibodies in human serum with a biolayer interferometry biosensor. *Sensors and Actuators B: Chemical*, *221*, 507-514. <https://doi.org/10.1016/j.snb.2015.06.088>

Gonçalves, R., Rima, S., Magueta, R., Pinho, P., Collado, A., Georgiadis, A., ... Tentzeris, M. M. (2015). RFID-Based Wireless Passive Sensors Utilizing Cork Materials. *IEEE Sensors Journal*, *15*(12), 7242-7251. [7222363]. <https://doi.org/10.1109/JSEN.2015.2472980>

Baby, D., Virtanen, T., Gemmeke, J. F., & Van hamme, H. (2015). Coupled dictionaries for exemplar-based speech enhancement and automatic speech recognition. *Ieee-Acm transactions on audio speech and language processing*, *23* (11), 1788-1799. <https://doi.org/10.1109/TASLP.2015.2450491>

Yi, X., Wu, T., Wang, Y., & Tentzeris, M. M. (2015). Sensitivity modeling of an RFID-based strain-sensing antenna with dielectric constant change. *IEEE Sensors Journal*, *15*(11), 6147-6155. [7152827]. <https://doi.org/10.1109/JSEN.2015.2453947>

Zakrzewski, M., Vehkaoja, A., Joutsen, A. S., Palovuori, K. T., & Vanhala, J. J. (2015). Noncontact Respiration Monitoring during Sleep with Microwave Doppler Radar. *IEEE Sensors Journal*, *15*(10), 5683-5693. <https://doi.org/10.1109/JSEN.2015.2446616>

Martinez, R., Kimionis, J., Georgiadis, A., Collado, A., Tentzeris, M., Goussetis, G., & Tornero, J. L. (2015). Circularly polarized shorted ring slot rectenna with a mesh design for optimized inkjet printing on paper substrate. In *2015 9th European Conference on Antennas and Propagation, EuCAP 2015* [7228814] Institute of Electrical and Electronics Engineers Inc..

Goncalves, R., Pinho, P., Carvalho, N. B., & Tentzeris, M. M. (2015). Humidity passive sensors based on UHF RFID using cork dielectric slabs. In *2015 9th European Conference on Antennas and Propagation, EuCAP 2015* [7228346] Institute of Electrical and Electronics Engineers Inc..

Su, W., Cook, B. S., & Tentzeris, M. M. (2015). Low-cost microfluidics-enabled tunable loop antenna using inkjet-printing technologies. In *2015 9th European Conference on Antennas and Propagation, EuCAP 2015* [7228990] Institute of Electrical and Electronics Engineers Inc..

Makkonen, J., Marsh, L. A., Vihonen, J., Järvi, A., Armitage, D. W., Visa, A., & Peyton, A. J. (2015). Improving reliability for classification of metallic objects using a WTMD portal. *Measurement Science and Technology*, *26*(10), [105103]. <https://doi.org/10.1088/0957-0233/26/10/105103>

Sanginés, R., Contreras, V., Sobral, H., & Robledo-Martinez, A. (2015). Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy. *Spectrochimica Acta Part B: Atomic Spectroscopy*, *110*, 139-145. [4935]. <https://doi.org/10.1016/j.sab.2015.06.012>

Salpavaara, T., Järveläinen, M., Seppälä, S., Yli-Hallila, T., Verho, J., Vilkkö, M., ... Levänen, E. (2015). Passive resonance sensor based method for monitoring particle suspensions. *Sensors and Actuators B: Chemical*, *219*, 324-330. <https://doi.org/10.1016/j.snb.2015.04.121>

Mariotti, C., Su, W., Cook, B. S., Roselli, L., & Tentzeris, M. M. (2015). Development of Low Cost, Wireless, Inkjet Printed Microfluidic RF Systems and Devices for Sensing or Tunable Electronics. *IEEE Sensors Journal*, *15*(6), 3156-3163. [6966729]. <https://doi.org/10.1109/JSEN.2014.2374874>

Kim, S., Kawahara, Y., Georgiadis, A., Collado, A., & Tentzeris, M. M. (2015). Low-cost inkjet-printed fully passive RFID tags for calibration-free capacitive/haptic sensor applications. *IEEE Sensors Journal*, *15*(6), 3135-3145. [6945328]. <https://doi.org/10.1109/JSEN.2014.2366915>

Giannoulis, G., Korpjärvi, V. M., Iliadis, N., Mäkelä, J., Viheriälä, J., Apostolopoulos, D., ... Avramopoulos, H. (2015). Dilute nitride SOAs for high-speed data processing in variable temperature conditions. In *Optical Fiber Communication Conference, OFC 2015 OSA - The Optical Society*.

Piccardi, A., Alberucci, A., Kravets, N., Assanto, G., Buchnev, O., & Kaczmarek, M. (2014). Light beam hysteresis in liquid crystals. In *2014 Fotonica AEIT Italian Conference on Photonics Technologies, Fotonica AEIT 2014* [6843888] IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/Fotonica.2014.6843888>

Cook, B. S., Vyas, R., Kim, S., Thai, T., Le, T., Traille, A., ... Tentzeris, M. M. (2014). RFID-based sensors for zero-power autonomous wireless sensor networks. *IEEE Sensors Journal*, *14*(8), 2419-2431. [6701187]. <https://doi.org/10.1109/JSEN.2013.2297436>

Tzamkiozis, T., Ntziachristos, L., Amanatidis, S., Niemelä, V., Ukkonen, A., & Samaras, Z. (2013). Development of a constant dilution sampling system for particulate and gaseous pollutant measurements. *Measurement Science and Technology*, *24*(8), [085801]. <https://doi.org/10.1088/0957-0233/24/8/085801>

Gumenyuk, R., & Okhotnikov, O. G. (2013). Polarization control of the bound state of a vector soliton. *Laser Physics Letters*, *10*(5), 1-3. [055111]. <https://doi.org/10.1088/1612-2011/10/5/055111>

Trikshev, A. I., Kurkov, A. S., Tsvetkov, V. B., Filatova, S. A., Kertulla, J., Filippov, V., ... Okhotnikov, O. G. (2013). 160W single-frequency laser based on active tapered double-clad fiber amplifier. In *Optics InfoBase Conference Papers*

Shigeta, R., Sasaki, T., Quan, D. M., Kawahara, Y., Vyas, R. J., Tentzeris, M. M., & Asami, T. (2013). Ambient rf energy harvesting sensor device with capacitor-leakage-aware duty cycle control. *IEEE Sensors Journal*, *13*(8), 2973-2983. [6521342]. <https://doi.org/10.1109/JSEN.2013.2264931>

Sorvajärvi, T., Rossi, J., & Toivonen, J. (2013). Detection of KC1 and KOH using collinear photofragmentation and atomic absorption spectroscopy. In *The European Conference on Lasers and Electro-Optics, CLEO_Europe 2013*

Vikholm-Lundin, I., Auer, S., Paakkunainen, M., Määttä, J. A. E., Munter, T., Leppiniemi, J., ... Tappura, K. (2012). Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold. *Sensors and Actuators B: Chemical*, *171-172*, 440-448. <https://doi.org/10.1016/j.snb.2012.05.008>

Thai, T. T., Mehdi, J. M., Chebila, F., Aubert, H., Pons, P., Dejean, G. R., ... Plana, R. (2012). Design and development of a novel passive wireless ultrasensitive RF temperature transducer for remote sensing. *IEEE Sensors Journal*, *12*(9), 2756-2766. [6208808]. <https://doi.org/10.1109/JSEN.2012.2201463>

Iliopoulos, K., Czaplicki, R., Ouazzani, H. E., Balandier, J-Y., Chas, M., Goeb, S., ... Sahraoui, B. (2012). Third order nonlinear optical response of TTF-based molecular corners. *Nonlinear Optics, Quantum Optics*, *43*(1-4), 205-212.

Vikholm-Lundin, I., Auer, S., & Hellgren, A. C. (2011). Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies. *Sensors and Actuators B: Chemical*, *156*(1), 28-34. <https://doi.org/10.1016/j.snb.2011.03.069>

Carlie, N., Anheier, N. C., Qiao, H. A., Bernacki, B., Phillips, M. C., Petit, L., ... Richardson, K. (2011). Measurement of the refractive index dispersion of As₂Se₃ bulk glass and thin films prior to and after laser irradiation and annealing using prism coupling in the near- and mid-infrared spectral range. *Review of Scientific Instruments*, *82*(5), [053103]. <https://doi.org/10.1063/1.3587616>

Piccardi, A., Alberucci, A., Assanto, G., & Tabiryann, N. (2011). Dark solitons in nematic liquid crystals. In *Optics InfoBase Conference Papers* <https://doi.org/10.1364/NLO.2011.NWE4>

Cakmakyapan, S., Caglayan, H., Serebryannikov, A., & Ozbay, E. (2011). Directional selectivity through the subwavelength slit in metallic gratings. In *CLEO: Applications and Technology* https://doi.org/10.1364/CLEO_AT.2011.JTuI67

Cakmakyapan, S., Caglayan, H., Serebryannikov, A., & Ozbay, E. (2011). Directional selectivity through the subwavelength slit in metallic gratings. In *CLEO: Science and Innovations 2011* https://doi.org/10.1364/CLEO_AT.2011.JTuI67

Cakmakyapan, S., Caglayan, H., Serebryannikov, A., & Ozbay, E. (2011). Directional selectivity through the subwavelength slit in metallic gratings. In *Quantum Electronics and Laser Science Conference, QELS 2011* https://doi.org/10.1364/CLEO_AT.2011.JTuI67

Vyas, R., Lakafosis, V., Lee, H., Shaker, G., Yang, L., Orecchini, G., ... Roselli, L. (2011). Inkjet printed, self powered, wireless sensors for environmental, gas, and authentication-based sensing. *IEEE Sensors Journal*, 11(12), 3139-3152. [6008617]. <https://doi.org/10.1109/JSEN.2011.2166996>

Izdebskaya, Y. V., Desyatnikov, A. S., Assanto, G., & Kivshar, Y. S. (2011). Multimode waveguides in nematic liquid crystals. In *Conference on Lasers and Electro-Optics/Pacific Rim, CLEOPR 2011* (pp. 1912-1913)

Veselov, A., Efimov, A., Chamorovskiy, A., Okhotnikov, O., Kosolapov, A., Levchenko, A., ... Tkachenko, N. (2011). Self-assembled monolayers (SAMs) of porphyrin deposited inside solid-core photonic crystal fibre (SCPCF). In *Access Networks and In-house Communications, ANIC 2011*

Izdebskaya, Y. V., Desyatnikov, A. S., Assanto, G., & Kivshar, Y. (2011). Spatial solitons carrying phase singularities in nematic liquid crystals. In *Conference on Lasers and Electro-Optics/Pacific Rim, CLEOPR 2011* (pp. 444-445)

Piccardi, A., Alberucci, A., Assanto, G., & Kaczmarek, M. (2011). Spatial solitons in a self-focusing medium with tunable nonlinearity. In *Optics InfoBase Conference Papers* <https://doi.org/10.1364/NLO.2011.NWE7>

Caglayan, H., & Engheta, N. (2011). Theory of near-IR metatronic nanocircuits using transparent conducting oxides (TCO). In *Frontiers in Optics 2011* Optical Society of America. <https://doi.org/10.1364/FIO.2011.FTuG2>

Peccianti, M., Pasquazi, A., Assanto, G., & Morandotti, R. (2011). Third harmonic generation enhancement in nematic liquid crystals via nonlocal solitons propagation. In *CLEO: Science and Innovations, CLEO_SI 2011*

Piccardi, A., Alberucci, A., Bortolozzo, U., Residori, S., & Assanto, G. (2010). Nematicon routing in liquid crystal light valve. In *Optics InfoBase Conference Papers*

Piccardi, A., Alberucci, A., & Assanto, G. (2010). Soliton self-deflection via power-dependent walk-off. In *Optics InfoBase Conference Papers* <https://doi.org/10.1364/NP.2010.NMD1>

Assanto, G., Peccianti, M., Alberucci, A., & Piccardi, A. (2009). Routing light with nematicons: Light localization and steering in liquid crystals. In *Optics InfoBase Conference Papers* (pp. 2281-2282). Optical Society of America. <https://doi.org/10.1364/IQEC.2009.ITuG1>

Le Xuan, L., Slablab, A., Zhou, C., Chauvat, D., De Wilde, Y., Perruchas, S., ... Roch, J. F. (2009). Single KTiOPO4 nanocrystals for nonlinear probing of local optical fields and interaction with a metallic nanostructure. In *Optics InfoBase Conference Papers* Optical Society of America.

Caglayan, H., Bulu, I., Loncar, M., & Ozbay, E. (2008). Observation of defect formation in metamaterials. In *Plasmonics and Metamaterials 2008* [MMC7] Optical Society of America. https://doi.org/10.1364/META_PLAS.2008.MMC7

Nilsson, J., Sahu, J. K., Jeong, Y., Filippov, V. N., Soh, D. B. S., Codemard, C. A., ... Payne, D. N. (2006). High power fiber lasers. In *Optics InfoBase Conference Papers* Optical Society of America.

Ozbay, E., Bulu, I., Aydin, K., Caglayan, H., Alici, K. B., & Guven, K. (2005). Highly directive radiation and negative refraction using photonic crystals. *Laser Physics*, *15*(2), 217-224.

Mäkinen, J., Piché, R., & Ellman, A. (2000). Fluid Transmission Line Modeling Using a Variational Method. *Journal of Dynamic Systems, Measurement and Control: Transactions of the ASME*, *122*(1), 153-162.

Sigmund, P., Robinson, M. T., Baskes, M. I., Hautala, M., Cui, F. Z., Eckstein, W., ... Urbassek, H. M. (1989). Round Robin computer simulation of ejection probability in sputtering. *Nuclear Inst. and Methods in Physics Research, B*, *36*(2), 110-123. [https://doi.org/10.1016/0168-583X\(89\)90573-9](https://doi.org/10.1016/0168-583X(89)90573-9)

Valkealahti, S., Schou, J., Sørensen, H., & Nieminen, R. M. (1988). Ranges and stopping power of KeV electrons in the solid hydrogens. *Nuclear Inst. and Methods in Physics Research, B*, *34*(3), 321-331. [https://doi.org/10.1016/0168-583X\(88\)90052-3](https://doi.org/10.1016/0168-583X(88)90052-3)

Valkealahti, S., & Nieminen, R. M. (1986). Molecular dynamics simulation of the damage production in Al (110) surface with slow argon ions. *Nuclear Inst. and Methods in Physics Research, B*, *18*(1-6), 365-369. [https://doi.org/10.1016/S0168-583X\(86\)80060-X](https://doi.org/10.1016/S0168-583X(86)80060-X)