

- Antink CH, Pirhonen M, Väättäjä H, Somppi S, Tornqvist H, Cardo A, Teichmann D, Vainio O, Surakka V, 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 ER. 2019. Methods for simultaneous robot-world-hand-eye calibration: A comparative study. *Sensors (Switzerland)*. 19(12). <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. IEEE. pp. 1861-1865. <https://doi.org/10.23919/ECC.2019.8795960>
- Pyrhönen V-P, Viikko MK. 2019. Composite nonlinear feedback control of a JIB trolley of a tower crane behaviors. In 2019 18th European Control Conference, ECC 2019. IEEE. pp. 1124-1129. <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. Rodrigues JJPC, Solic P, Perkovic T, Vukojevic K, Rodrigues JJPC, Patrono L, Nizetic S, editors. In 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. Lohan E-S, Rugamer A, Nurmi J, Koch W, Heuberger A, editors. In 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-Löyty S, Piche R. 2019. Methods for long-term GNSS clock offset prediction. Lohan E-S, Rugamer A, Nurmi J, Koch W, Heuberger A, editors. In 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. Lohan E-S, Rugamer A, Nurmi J, Koch W, Heuberger A, editors. In 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. IEEE. pp. 507-513. <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 MJ, Carlow G, Sullivan B, Menard JM, Dolgaleva K, Boyd RW. 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 NL, Toivonen J. 2019. Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution. *Sensors (Switzerland)*. 19(7). <https://doi.org/10.3390/s19071602>

Ometov A, Bezzateev S, Davydov V, Shchesniak A, Masek P, Lohan ES, Koucheryavy Y. 2019. Positioning information privacy in intelligent transportation systems: An overview and future perspective. *Sensors*. 19(7). <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 PR, Li M, Mattei RM, Niang MA, Talisa N, Tripepi M, Harris B, Bhalerao SR, Chowdhury EA, Winter CH, 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. IEEE. pp. 160-162. <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, Ukkonen L, Sydänheimo L. 2019. Optimization of RFID-Based Tunnel Access Monitoring System Antenna Reading Areas. In 13th European Conference on Antennas and Propagation, EuCAP 2019. 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 SK, Cotton SL, Sofotasios PC, Muhaidat S, Badarneh OS, Karagiannidis GK. 2019. Energy Detection-Based Spectrum Sensing over Fisher-Snedecor F Fading Channels. In 2018 IEEE Global Communications Conference. 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 PR, 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. IEEE. pp. 1361-1368. <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. IEEE. pp. 1150-1156. <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. 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. 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. 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. IEEE. pp. 1-4. <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). <https://doi.org/10.3390/s18061693>
- Virtanen J, Somppi S, Törnqvist H, Jeyhani V, Fiedler P, Gizatdinova Y, Majaranta P, Väättäjä H, Cardó AV, Lekkala J, Tuukkanen S, Surakka V, Vainio O, Vehkaoja A. 2018. Evaluation of dry electrodes in canine heart rate monitoring. *Sensors*. 18(6). <https://doi.org/10.3390/s18061757>
- Borges LR, Azzari L, Bakic PR, Maidment ADA, Vieira MAC, Foi A. 2018. Restoration of low-dose digital breast tomosynthesis. *Measurement Science and Technology*. 29(6). <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. IEEE. pp. 30-33. <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). <https://doi.org/10.3390/s18020613>
- Mesaros A, Heittola T, Benetos E, Foster P, Lagrange M, Virtanen T, Plumbley MD. 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 ES, 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). <https://doi.org/10.1115/1.4036537>

Välämäki H, Verho J, Kreutzer J, Kattiparambil Rajan D, Ryyänen T, Pekkanen-Mattila M, Ahola A, Tappura K, Kallio P, 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 ET, 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 DK, Verho J, Kreutzer J, Valimäki H, Ihalainen H, Lekkala J, Patrikoski M, 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). IEEE. pp. 470-474. <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. IEEE. pp. 694-699. <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. IEEE. pp. 1448-1453. <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. IEEE. pp. 660-665. <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. IEEE. pp. 635-643. <https://doi.org/10.23919/MIPRO.2017.7973502>

Richard G, Virtanen T, Bello JP, 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, Solomitskii D, Olsson T, Bezzateev S, Shchesniak A, Andreev S, Harju J, 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). <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 (C₈H₁₂N)₂[SnCl₆]. *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. IEEE. pp. 500-501. <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). IEEE. pp. 750-754. <https://doi.org/10.1109/TCSET.2016.7452171>

Viljanen J, Sun Z, Alwahabi ZT. 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 DA, Okhotnikov OG, Zolotovskii IO. 2016. Amplifier similariton laser with extra-broad bandwidth output pulse. *Laser Physics Letters*. 13(3). <https://doi.org/10.1088/1612-2011/13/3/035106>

Selvan NT, Eshwaran SB, Das A, Stöckelhuber KW, Wießner S, Pötschke P, Nando GB, Chervanyov AI, 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). <https://doi.org/10.2351/1.4936988>

Mesaros A, Heittola T, Virtanen T. 2016. Metrics for polyphonic sound event detection. *Applied Sciences*. 6(6). <https://doi.org/10.3390/app6060162>

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. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/ICSENS.2015.7370186>

Su W, Cooper JR, Cook BS, Tentzeris MM, Mariotti C, Roselli L. 2015. Inkjet-printed dual microfluidic-based sensor integrated system. In 2015 IEEE SENSORS - Proceedings. 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 VP. 2015. Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer 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, Hester J, Carvalho NB, Tentzeris MM. 2015. RFID-Based Wireless Passive Sensors Utilizing Cork Materials. *IEEE Sensors Journal*. 15(12):7242-7251. <https://doi.org/10.1109/JSEN.2015.2472980>
- Baby D, Virtanen T, Gemmeke JF, 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 MM. 2015. Sensitivity modeling of an RFID-based strain-sensing antenna with dielectric constant change. *IEEE Sensors Journal*. 15(11):6147-6155. <https://doi.org/10.1109/JSEN.2015.2453947>
- Zakrzewski M, Vehkaoja A, Joutsen AS, Palovuori KT, Vanhala JJ. 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 JL. 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. Institute of Electrical and Electronics Engineers Inc.
- Goncalves R, Pinho P, Carvalho NB, Tentzeris MM. 2015. Humidity passive sensors based on UHF RFID using cork dielectric slabs. In 2015 9th European Conference on Antennas and Propagation, EuCAP 2015. Institute of Electrical and Electronics Engineers Inc.
- Su W, Cook BS, Tentzeris MM. 2015. Low-cost microfluidics-enabled tunable loop antenna using inkjet-printing technologies. In 2015 9th European Conference on Antennas and Propagation, EuCAP 2015. Institute of Electrical and Electronics Engineers Inc.
- Makkonen J, Marsh LA, Vihonen J, Järvi A, Armitage DW, Visa A, Peyton AJ. 2015. Improving reliability for classification of metallic objects using a WTMD portal. *Measurement Science and Technology*. 26(10). <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. <https://doi.org/10.1016/j.sab.2015.06.012>
- Salpavaara T, Järveläinen M, Seppälä S, Yli-Hallila T, Verho J, Vilkkö M, Lekkala J, 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 BS, Roselli L, Tentzeris MM. 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. <https://doi.org/10.1109/JSEN.2014.2374874>
- Kim S, Kawahara Y, Georgiadis A, Collado A, Tentzeris MM. 2015. Low-cost inkjet-printed fully passive RFID tags for calibration-free capacitive/haptic sensor applications. *IEEE Sensors Journal*. 15(6):3135-3145. <https://doi.org/10.1109/JSEN.2014.2366915>
- Giannoulis G, Korpijärvi VM, Iliadis N, Mäkelä J, Viheriälä J, Apostolopoulos D, Guina M, 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. IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/Fotonica.2014.6843888>

Cook BS, Vyas R, Kim S, Thai T, Le T, Traille A, Aubert H, Tentzeris MM. 2014. RFID-based sensors for zero-power autonomous wireless sensor networks. *IEEE Sensors Journal*. 14(8):2419-2431. <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). <https://doi.org/10.1088/0957-0233/24/8/085801>

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

Trikshev AI, Kurkov AS, Tsvetkov VB, Filatova SA, Kertulla J, Filippov V, Chamorovskiy YK, Okhotnikov OG. 2013. 160W single-frequency laser based on active tapered double-clad fiber amplifier. In *Optics InfoBase Conference Papers*.

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

Sorvajarvi 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 JAE, Munter T, Leppiniemi J, Hytönen VP, 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 TT, Mehdi JM, Chebila F, Aubert H, Pons P, Dejean GR, Tentzeris MM, 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. <https://doi.org/10.1109/JSEN.2012.2201463>

Iliopoulos K, Czaplicki R, Ouazzani HE, Balandier J-Y, Chas M, Goeb S, Sallé M, Gindre D, 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 AC. 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 NC, Qiao HA, Bernacki B, Phillips MC, Petit L, Musgraves JD, Richardson K. 2011. Measurement of the refractive index dispersion of As_2Se_3 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). <https://doi.org/10.1063/1.3587616>

Piccardi A, Alberucci A, Assanto G, Tabiryan 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, Traille A, Tentzeris MM, Roselli L. 2011. Inkjet printed, self powered, wireless sensors for environmental, gas, and authentication-based sensing. *IEEE Sensors Journal*. 11(12):3139-3152. <https://doi.org/10.1109/JSEN.2011.2166996>

Izdebskaya YV, Desyatnikov AS, Assanto G, Kivshar YS. 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, Lemmetyinen H, 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 YV, Desyatnikov AS, 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, Bertolozzo 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. Optical Society of America. pp. 2281-2282. <https://doi.org/10.1364/IQEC.2009.ITuG1>

Le Xuan L, Slablab A, Zhou C, Chauvat D, De Wilde Y, Perruchas S, Tard C, Gacoin T, Villeval P, Roch JF. 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. Optical Society of America. https://doi.org/10.1364/META_PLAS.2008.MMC7

Nilsson J, Sahu JK, Jeong Y, Filippov VN, Soh DBS, Codemard CA, Dupriez P, Kim J, Richardson DJ, Malinowski A, Piper AN, Price JHV, Furusawa K, Clarkson WA, Payne DN. 2006. High power fiber lasers. In Optics InfoBase Conference Papers. Optical Society of America.

Ozbay E, Bulu I, Aydin K, Caglayan H, Alici KB, 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 MT, Baskes MI, Hautala M, Cui FZ, Eckstein W, Yamamura Y, Hosaka S, Ishitani T, Shulga VI, Harrison DE, Chakarov IR, Karpuzo DS, Kawatoh E, Shimizu R, Valkealahti S, Nieminen RM, Betz G, Husinsky W, Shapiro MH, Vicanek M, Urbassek HM. 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 RM. 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 RM. 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)