

Assanto G, Smyth NF. **Nonlinear guided waves: Preface**. Journal of Nonlinear Optical Physics and Materials. 2016 joulu 1;25(4). 1650041. <https://doi.org/10.1142/S0218863516500417>

Bhalerao SR, Lupo D, Zangiabadi A, Kymissis I, Leppäniemi J, Alastalo A et al. **0.6V threshold voltage thin film transistors with solution processable indium oxide (In<sub>2</sub>O<sub>3</sub>) Channel and Anodized High-κ Al<sub>2</sub>O<sub>3</sub> Dielectric**. IEEE Electron Device Letters. 2019 heinä 1;40(7):1112-1115. <https://doi.org/10.1109/LED.2019.2918492>

Murtomaeki JS, Kirby G, van Nugteren J, Contat PA, Fleiter J, De Frutos OS et al. **10 kA Joints for HTS Roebel Cables**. IEEE Transactions on Applied Superconductivity. 2018;28(3). <https://doi.org/10.1109/TASC.2018.2804951>

Murtomäki JS, Van Nugteren J, Stenvall A, Kirby G, Rossi L. **3-D mechanical modeling of 20 T HTS clover leaf end coils - Good practices and lessons learned**. IEEE Transactions on Applied Superconductivity. 2019 elo 1;29(5). 8642381. <https://doi.org/10.1109/TASC.2019.2899317>

Escamez G, Sirois F, Lahtinen V, Stenvall A, Badel A, Tixador P et al. **3-D Numerical Modeling of AC Losses in Multifilamentary MgB<sub>2</sub> Wires**. IEEE Transactions on Applied Superconductivity. 2016 huhti 1;26(3). 4701907. <https://doi.org/10.1109/TASC.2016.2533024>

Pyattaev A, Hosek J, Johnsson K, Krkos R, Gerasimenko M, Masek P et al. **3GPP LTE-assisted Wi-Fi-direct: Trial implementation of live D2D technology**. ETRI Journal. 2015 loka 1;37(5):877-887. <https://doi.org/10.4218/etrij.15.2415.0003>

Beck S, Jeong S, Min S, Hwang MW, Kim ST, Lim K et al. **A 0.5-6MHz Active-RC LPF with Fine Gain Steps Using Binary Interpolated Resistor Banks**. IEICE TRANSACTIONS ON ELECTRONICS. 2011 elo;E94-C(8):1328-1331. <https://doi.org/10.1587/transele.E94.C.1328>

Petelenz P, Kulig W. **Absorption profile and femtosecond intraband relaxation of the intense upper Davydov component in oligothiophenes**. Physica Status Solidi B: Basic Solid State Physics. 2011 helmi;248(2):412-415. <https://doi.org/10.1002/pssb.201000640>

Kirby GA, Van Nugteren J, Ballarino A, Bottura L, Chouika N, Clement S et al. **Accelerator-quality HTS dipole magnet demonstrator designs for the EuCARD-2 5-T 40-mm clear aperture magnet**. IEEE Transactions on Applied Superconductivity. 2015 kesä 1;25(3). 4000805. <https://doi.org/10.1109/TASC.2014.2361933>

Acar E, Peltonen S, Ruotsalainen U. **Adaptive multiresolution method for MAP reconstruction in electron tomography**. Ultramicroscopy. 2016 marras 1;170:24-34. <https://doi.org/10.1016/j.ultramic.2016.08.002>

Salmi T, Tarhasaari T, Izquierdo-Bermudez S. **A Database for Storing Magnet Parameters and Analysis of Quench Test Results in HL-LHC Nb<sub>3</sub>Sn Short Model Magnets**. IEEE Transactions on Applied Superconductivity. 2020;30(4). 4703705. <https://doi.org/10.1109/TASC.2020.2981304>

Wang J, Ray AK. **Adsorption and dissociation of molecular oxygen on α-Pu (0 2 0) surface: A density functional study**. Physica B: Condensed Matter. 2011 syys 1;406(17):3285-3294. <https://doi.org/10.1016/j.physb.2011.05.041>

van Nugteren J, Murtomäki J, Ruuskanen J, Kirby G, Hagen P, DeRijk G et al. **A Fast Quench Protection System for High-Temperature Superconducting Magnets**. IEEE Transactions on Applied Superconductivity. 2019 tammi;29(1). 4700108. <https://doi.org/10.1109/TASC.2018.2848229>

Lahtinen V, Stenvall A, Sirois F, Pellikka M. **A Finite Element Simulation Tool for Predicting Hysteresis Losses in Superconductors Using an H-Oriented Formulation with Cohomology Basis Functions**. Journal of Superconductivity and Novel Magnetism. 2015 huhti 22;28(8):2345-2354. <https://doi.org/10.1007/s10948-015-3074-x>

Nechay K, Kahle H, Penttinen J-P, Rajala P, Tukiainen A, Ranta S et al. **AlGaAs/AlGaInP VECSELs with Direct Emission at 740-770 nm**. IEEE Photonics Technology Letters. 2019 elo 1;31(15):1245-1248. <https://doi.org/10.1109/LPT.2019.2924289>

Ali-Löytty H, Louie MW, Singh MR, Li L, Sanchez Casalongue HG, Ogasawara H et al. **Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction**. Journal of Physical Chemistry C. 2016 helmi 4;120(4):2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>

Ma L, Ray AK. **An ab initio study of PuO<sub>2±0.25</sub>, UO<sub>2±0.25</sub>, and UO<sub>2.5</sub>Pu<sub>0.5O<sub>2±0.25</sub></sub>**. European Physical Journal B. 2011 touko;81(1):103-113. <https://doi.org/10.1140/epjb/e2011-10759-0>

Salmi T, Chlachidze G, Marchevsky M, Bajas H, Felice H, Stenvall A. **Analysis of uncertainties in protection heater delay time measurements and simulations in Nb3Sn high-field accelerator magnets**. IEEE Transactions on Applied Superconductivity. 2015 elo 1;25(4). <https://doi.org/10.1109/TASC.2015.2437332>

Zhao J, Stenvall A, Gao Y, Salmi T. **Analytical and Numerical Methods to Estimate the Effective Mechanical Properties of Rutherford Cables**. IEEE Transactions on Applied Superconductivity. 2020 elo 1;30(5). 8400808. <https://doi.org/10.1109/TASC.2020.2968924>

Skaugen A, Murray P, Laurson L. **Analytical computation of the demagnetizing energy of thin-film domain walls**. Physical Review B. 2019 syys 25;100(9). 094440. <https://doi.org/10.1103/PhysRevB.100.094440>

Colace L, Santoni F, Assanto G. **A near-infrared optoelectronic approach to detection of road conditions**. Optics and Lasers in Engineering. 2013 touko;51(5):633-636. <https://doi.org/10.1016/j.optlaseng.2013.01.003>

Beck S, Kim ST, Lee M, Lim K, Laskar J, Tentzeris MM. **A new power-consumption optimization technique for two-stage operational amplifiers**. IEICE TRANSACTIONS ON ELECTRONICS. 2011 kesä;E94-C(6):1138-1140. <https://doi.org/10.1587/transle.E94.C.1138>

Liu X, Fan Y, Tentzeris MM. **An integrated "sense-and-communicate" broad-/narrow-band optically controlled reconfigurable antenna for cognitive radio systems**. Microwave and Optical Technology Letters. 2015 huhti 1;57(4):1016-1023. <https://doi.org/10.1002/mop.29004>

Belahcen A, Singh D, Rasilo P, Martin F, Ghalamestani SG, Vandeveld L. **Anisotropic and strain-dependent model of magnetostriction in electrical steel sheets**. IEEE Transactions on Magnetics. 2015 maaliskuu 1;51(3). 2001204. <https://doi.org/10.1109/TMAG.2014.2361681>

Stumpel JE, Wouters C, Herzer N, Ziegler J, Broer DJ, Bastiaansen CWM et al. **An Optical Sensor for Volatile Amines Based on an Inkjet-Printed, Hydrogen-Bonded, Cholesteric Liquid Crystalline Film**. Advanced Optical Materials. 2014;2(5):459-464. <https://doi.org/10.1002/adom.201300516>

Hasani M, Vena A, Sydänheimo L, Tentzeris MM, Ukkonen L. **A Novel Enhanced-Performance Flexible RFID-Enabled Embroidered Wireless Integrated Module for Sensing Applications**. IEEE Transactions on Components, Packaging and Manufacturing Technology. 2015;5(9):1244-1252. <https://doi.org/10.1109/TCPMT.2015.2461661>

Kovács PT, Zare A, Balogh T, Bregovic R, Gotchev A. **Architectures and codecs for real-time light field streaming**. Journal of Imaging Science and Technology. 2017 tammi 1;61(1). 010403. <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>

Kalimeri M, Derreumaux P, Sterpone F. **Are coarse-grained models apt to detect protein thermal stability? the case of OPEP force field**. Journal of Non-Crystalline Solids. 2015 tammi 1;407:494-501. <https://doi.org/10.1016/j.jnoncrsol.2014.07.005>

- Heiskanen JP, Manninen VM, Pankov D, Omar WAE, Kastinen T, Hukka TI et al. **Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells**. *Thin Solid Films*. 2015 tammi 1;574:196-206. <https://doi.org/10.1016/j.tsf.2014.12.007>
- Sarcan F, Mutlu S, Cokduygulular E, Donmez O, Erol A, Puustinen J et al. **A study of electric transport in n- and p-type modulation-doped GaInNAs/GaAs quantum well structures under a high electric field**. *Semiconductor Science and Technology*. 2018 touko 4;33(6). 064003. <https://doi.org/10.1088/1361-6641/aabc39>
- Glorieux B, Salminen T, Massera J, Lastusaari M, Petit L. **Better understanding of the role of SiO<sub>2</sub>, P<sub>2</sub>O<sub>5</sub> and Al<sub>2</sub>O<sub>3</sub> on the spectroscopic properties of Yb<sup>3+</sup> doped silica sol-gel glasses**. *Journal of Non-Crystalline Solids*. 2018;482:46-51. <https://doi.org/10.1016/j.jnoncrsol.2017.12.021>
- Rasappa S, Borah D, Senthamaraiannan R, Faulkner CC, Shaw MT, Gleeson P et al. **Block copolymer lithography: Feature size control and extension by an over-etch technique**. *Thin Solid Films*. 2012 marras 1;522:318-323. <https://doi.org/10.1016/j.tsf.2012.09.017>
- Ramesh A, Growden TA, Berger PR, Loo R, Vandervorst W, Douhard B et al. **Boron delta-doping dependence on Si/SiGe resonant interband tunneling diodes grown by chemical vapor deposition**. *IEEE Transactions on Electron Devices*. 2012 maaliskuu;59(3):602-609. <https://doi.org/10.1109/TED.2011.2180532>
- Giannoulis G, Korpiljärvi V-M, Iliadis N, Mäkelä J, Viheriälä J, Apostolopoulos D et al. **Bringing High-Performance GaInNAsSb/GaAs SOAs to True Data Applications**. *IEEE Photonics Technology Letters*. 2015 elo 15;27(16):1691-1694. 7113825. <https://doi.org/10.1109/LPT.2015.2436697>
- Jung KY, Yoon WJ, Park YB, Berger PR, Teixeira FL. **Broadband finite-Difference Time-Domain modeling of plasmonic organic photovoltaics**. *ETRI Journal*. 2014;36(4):654-661. <https://doi.org/10.4218/14.0113.0767>
- Rissanen I, Laurson L. **Bursty magnetic friction between polycrystalline thin films with domain walls**. *Physical Review B*. 2019 loka 4;100(14). 144408. <https://doi.org/10.1103/PhysRevB.100.144408>
- Koivusaari KJ, Rantala TT, Leppävuori S. **Calculated electronic density of states and structural properties of tetrahedral amorphous carbon**. *Diamond and Related Materials*. 2000 huhti;9(3):736-740. [https://doi.org/10.1016/S0925-9635\(99\)00286-1](https://doi.org/10.1016/S0925-9635(99)00286-1)
- Şahin E, Onural L. **Calculation of the scalar diffraction field from curved surfaces by decomposing the three-dimensional field into a sum of Gaussian beams**. *Journal of the Optical Society of America A: Optics Image Science and Vision*. 2013;30(3):527-536.
- Putala J, Niittynen J, Hannu J, Myllymäki S, Kunnari E, Mäntysalo M et al. **Capability assessment of inkjet printing for reliable RFID applications**. *IEEE Transactions on Device and Materials Reliability*. 2017 kesä 1;17(2):281-290. <https://doi.org/10.1109/TDMR.2016.2636342>
- Casula R, Penttinen J-P, Guina M, Kemp AJ, Hastie JE. **Cascaded crystalline raman lasers for extended wavelength coverage: Continuous-wave, third-stokes operation**. *Optica*. 2018 marras 20;5(11):1406-1413. <https://doi.org/10.1364/OPTICA.5.001406>
- Ma L, Laasonen K, Akola J. **Catalytic Activity of AuCu Clusters on MgO(100): Effect of Alloy Composition for CO Oxidation**. *Journal of Physical Chemistry C*. 2017 touko 25;121(20):10876-10886. <https://doi.org/10.1021/acs.jpcc.6b12054>
- Caglayan H, Bulu I, Loncar M, Ozbay E. **Cavity formation in split ring resonators**. *Photonics and Nanostructures - Fundamentals and Applications*. 2008 joulu;6(3-4):200-204. <https://doi.org/10.1016/j.photonics.2008.09.001>
- Mashayekhi M, Winchester L, Laurila M-M, Mäntysalo M, Ogier S, Terés L et al. **Chip-by-chip configurable interconnection using digital printing techniques**. *Journal of Micromechanics and Microengineering*. 2017 maaliskuu 6;27(4). 045009. <https://doi.org/10.1088/1361-6439/aa5ef3>

Bajas H, Ambrosio G, Anerella M, Bajko M, Bossert R, Caspi S et al. **Cold test results of the LARP HQ Nb<sub>3</sub>Sn quadrupole magnet at 1.9 K.** IEEE Transactions on Applied Superconductivity. 2013;23(3). 4002606. <https://doi.org/10.1109/TASC.2013.2245281>

Laurila M-M, Khorramdel B, Mäntysalo M. **Combination of E-jet and inkjet printing for additive fabrication of multilayer high-density RDL of silicon interposer.** IEEE Transactions on Electron Devices. 2017 maaliskuu 1;64(3):1217-1224. <https://doi.org/10.1109/TED.2016.2644728>

Moiseev EI, Maximov MV, Kryzhanovskaya NV, Simchuk OI, Kulagina MM, Kadinskaya SA et al. **Comparative Analysis of Injection Microdisk Lasers Based on InGaAsN Quantum Wells and InAs/InGaAs Quantum Dots.** Semiconductors. 2020 helmikuu 1;54(2):263-267. <https://doi.org/10.1134/S1063782620020177>

Musgraves JD, Carlie N, Hu J, Petit L, Agarwal A, Kimerling LC et al. **Comparison of the optical, thermal and structural properties of Ge-Sb-S thin films deposited using thermal evaporation and pulsed laser deposition techniques.** Acta Materialia. 2011 heinäkuu;59(12):5032-5039. <https://doi.org/10.1016/j.actamat.2011.04.060>

Vignion-Dewalle AS, Betrouni N, Tylcz JB, Vermandel M, Mortier L, Mordon S. **Comparison of three light doses in the photodynamic treatment of actinic keratosis using mathematical modeling.** JOURNAL OF BIOMEDICAL OPTICS. 2015 toukokuu 1;20(5). 058001. <https://doi.org/10.1117/1.JBO.20.5.058001>

Bansod ND, Kapgate BP, Das C, Das A, Basu D, Debnath SC. **Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method.** JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. 2016;80(2):548-559. <https://doi.org/10.1007/s10971-016-4114-0>

Aho A, Polojärvi V, Korpijärvi VM, Salmi J, Tukiainen A, Laukkanen P et al. **Composition dependent growth dynamics in molecular beam epitaxy of GaInNAs solar cells.** Solar Energy Materials and Solar Cells. 2014 toukokuu;124:150-158. <https://doi.org/10.1016/j.solmat.2014.01.044>

Katkovnik V, Shevkunov I, Petrov NV, Egiazarian K. **Computational super-resolution phase retrieval from multiple phase-coded diffraction patterns: Simulation study and experiments.** Optica. 2017 heinäkuu 20;4(7):786-794. <https://doi.org/10.1364/OPTICA.4.000786>

Silwal B, Rasilo P, Perkkio L, Oksman M, Hannukainen A, Eirola T et al. **Computation of torque of an electrical machine with different types of finite element mesh in the air gap.** IEEE Transactions on Magnetics. 2014 joulukuu 1;50(12). 8105909. <https://doi.org/10.1109/TMAG.2014.2333491>

Schoerling D, Durante M, Lorin C, Martinez T, Ruuskanen J, Salmi T et al. **Considerations on a Cost Model for High-Field Dipole Arc Magnets for FCC.** IEEE Transactions on Applied Superconductivity. 2017 kesäkuu 1;27(4). 4003105. <https://doi.org/10.1109/TASC.2017.2657510>

Bhagavatheswaran ES, Parsekar M, Das A, Le HH, Wiessner S, Stöckelhuber KW et al. **Construction of an Interconnected Nanostructured Carbon Black Network: Development of Highly Stretchable and Robust Elastomeric Conductors.** Journal of Physical Chemistry C. 2015 syyskuu 17;119(37):21723-21731. <https://doi.org/10.1021/acs.jpcc.5b06629>

Habib M, Briukhanova D, Das N, Yildiz BC, Caglayan H. **Controlling the plasmon resonance via epsilon-near-zero multilayer metamaterials.** Nanophotonics. 2020;9(11). 20200245. <https://doi.org/10.1515/nanoph-2020-0245>

Ropo M, Akola J, Jones RO. **Crystallization of supercooled liquid antimony: A density functional study.** Physical Review B. 2017 marraskuuta 3;96(18). 184102. <https://doi.org/10.1103/PhysRevB.96.184102>

Kalikka J, Akola J, Jones RO. **Crystallization processes in the phase change material Ge<sub>2</sub>Sb<sub>2</sub>Te<sub>5</sub>: Unbiased density functional/molecular dynamics simulations.** Physical Review B. 2016 lokakuu 17;94(13). 134105. <https://doi.org/10.1103/PhysRevB.94.134105>

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

Pirkkalainen H, Elovaara J, Korpinen L. **Decreasing the extremely low-frequency electric field exposure with a Faraday cage during work tasks from a man hoist at a 400 kV substation.** Progress In Electromagnetics Research M. 2016;48:55-66.

Edwards TEJ, Di Gioacchino F, Goodfellow AJ, Mohanty G, Wehrs J, Michler J et al. **Deformation of lamellar  $\gamma$ -TiAl below the general yield stress.** Acta Materialia. 2019 tammi 15;163:122-139. <https://doi.org/10.1016/j.actamat.2018.09.061>

Saeidi S, Rasekh P, Awan KM, Tüßen A, Huttunen MJ, Dolgaleva K. **Demonstration of optical nonlinearity in InGaAsP/InP passive waveguides.** Optical Materials. 2018 loka 1;84:524-530. <https://doi.org/10.1016/j.optmat.2018.07.037>

Järvelä J, Lyly M, Stenvall A, Juntunen R, Souc J, Mikkonen R. **Design, fabrication, and testing of a low AC-loss conduction-cooled cryostat for magnetization loss measurement apparatus.** IEEE Transactions on Applied Superconductivity. 2015 helmi 1;25(1). <https://doi.org/10.1109/TASC.2014.2357754>

Bulu I, Caglayan H, Ozbay E. **Designing materials with desired electromagnetic properties.** Microwave and Optical Technology Letters. 2006 joulu;48(12):2611-2615. <https://doi.org/10.1002/mop.21988>

Lorin C, Simon D, Felice H, Rifflet JM, Salmi T, Schoerling D. **Design of a Nb<sub>3</sub>Sn 400 T/m quadrupole for the Future Circular Collider.** IEEE Transactions on Applied Superconductivity. 2018;28(3). 4004905. <https://doi.org/10.1109/TASC.2018.2797945>

Vikholm-Lundin I, Auer S, Hellgren AC. **Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies.** Sensors and Actuators B: Chemical. 2011 elo 10;156(1):28-34. <https://doi.org/10.1016/j.snb.2011.03.069>

Wang D, Wang Z, Yue Y, Yu J, Tan C, Li D et al. **Determination of beam incidence conditions based on the analysis of laser interference patterns.** Optik. 2015 marras 1;126(21):2902-2907. <https://doi.org/10.1016/j.jileo.2015.07.039>

Cuyon L, Lesage JC, Betrouni N, Mordon S. **Development of a new illumination procedure for photodynamic therapy of the abdominal cavity.** JOURNAL OF BIOMEDICAL OPTICS. 2012 maaliskuu;17(3). 038001. <https://doi.org/10.1117/1.JBO.17.3.038001>

Ferracin P, Ambrosio G, Anerella M, Ballarino A, Bajas H, Bajko M et al. **Development of MQXF: The Nb<sub>3</sub>Sn Low- $\beta$  Quadrupole for the HiLumi LHC.** IEEE Transactions on Applied Superconductivity. 2016 kesä 1;26(4). 4000207. <https://doi.org/10.1109/TASC.2015.2510508>

Valkealahti S, Manninen M. **Diffusion on aluminum-cluster surfaces and the cluster growth.** Physical Review B - Condensed Matter and Materials Physics. 1998 tammi 1;57(24):15533-15540. <https://doi.org/10.1103/PhysRevB.57.15533>

Aho A, Isoaho R, Tukiainen A, Gori G, Campesato R, Guina M. **Dilute nitride triple junction solar cells for space applications: Progress towards highest AMO efficiency.** Progress in Photovoltaics: Research and Applications. 2018 syys;26(19):740-744. <https://doi.org/10.1002/pip.3011>

Kumpula R, Vayrynen J, Rantala T, Aksela S. **Direct measurement of vapour-metal shifts in photo- and Auger electron spectra of Zn and Cd.** Journal of physics c-Solid state physics. 1979;12(21). 001. <https://doi.org/10.1088/0022-3719/12/21/001>

Hupa L, Fagerlund S, Massera J, Björkvik L. **Dissolution behavior of the bioactive glass S53P4 when sodium is replaced by potassium, and calcium with magnesium or strontium.** Journal of Non-Crystalline Solids. 2016;41-46. <https://doi.org/10.1016/j.jnoncrsol.2015.03.026>

Sitbon M, Leppäaho J, Suntio T, Kuperman A. **Dynamics of photovoltaic-generator-interfacing voltage-controlled buck power stage.** IEEE Journal of Photovoltaics. 2015 maaliskuu 1;5(2):633-640. <https://doi.org/10.1109/JPHOTOV.2014.2379094>

Stoykova E, Berberova N, Kim Y, Nazarova D, Ivanov B, Gotchev A et al. **Dynamic speckle analysis with smoothed intensity-based activity maps.** Optics and Lasers in Engineering. 2017 kesä 1;93:55-65. <https://doi.org/10.1016/j.optlaseng.2017.01.012>

Ojha N, Bogdan M, Galatus R, Petit L. **Effect of heat-treatment on the upconversion of NaYF<sub>4</sub>:Yb<sup>3+</sup>, Er<sup>3+</sup> nanocrystals containing silver phosphate glass.** Journal of Non-Crystalline Solids. 2020 syys 15;544. 120243. <https://doi.org/10.1016/j.jnoncrsol.2020.120243>

Hakola H, Sariola-Leikas E, Efimov A, Tkachenko NV. **Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods.** Journal of Physical Chemistry C. 2016 huhti 21;120(13):7044-7051. <https://doi.org/10.1021/acs.jpcc.6b01583>

Sharma R, Bhalariao S, Gupta D. **Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells.** Organic Electronics: physics, materials, applications. 2016 kesä 1;33:274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>

Kapgate BP, Das C, Das A, Basu D, Reuter U, Heinrich G. **Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends.** JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. 2012 syys;63(3):501-509. <https://doi.org/10.1007/s10971-012-2812-9>

Lopez-Iscoa P, Petit L, Massera J, Janner D, Boetti NG, Pugliese D et al. **Effect of the addition of Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> and ZnO on the thermal, structural and luminescence properties of Er<sup>3+</sup>-doped phosphate glasses.** Journal of Non-Crystalline Solids. 2017 maaliskuu 15;460:161-168. <https://doi.org/10.1016/j.jnoncrsol.2017.01.030>

Massera J, Gaussiran M, Głuchowski P, Lastusaari M, Petit L, Hölsä J et al. **Effect of the glass melting condition on the processing of phosphate-based glass-ceramics with persistent luminescence properties.** Optical Materials. 2016 helmikuu 1;52:56-61. <https://doi.org/10.1016/j.optmat.2015.12.006>

Pavelescu E-M, Polojärvi V, Schramm A, Tukiainen A, Aho A, Zhang W et al. **Effects of insertion of strain-engineering Ga(In)NAs layers on optical properties of InAs/GaAs quantum dots for high-efficiency solar cells.** Optical Materials. 2016 helmikuu 1;52:177-180. <https://doi.org/10.1016/j.optmat.2015.12.035>

Mäkelä J, Tuominen M, Yasir M, Polojärvi V, Aho A, Tukiainen A et al. **Effects of thinning and heating for TiO<sub>2</sub>/AlInP junctions.** Journal of Electron Spectroscopy and Related Phenomena. 2015 elokuu 24;205:6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>

Durandin NA, Isokuortti J, Efimov A, Vuorimaa-Laukkanen E, Tkachenko NV, Laaksonen T. **Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more.** Chemical Communications. 2018;54(99):14029-14032. <https://doi.org/10.1039/c8cc07592a>

Khorramdel B, Torkkeli A, Mäntysalo M. **Electrical Contacts in SOI MEMS Using Aerosol Jet Printing.** IEEE Journal of the Electron Devices Society. 2017;6:34-40. <https://doi.org/10.1109/JEDS.2017.2764498>

Donmez O, Aydin M, Ardali, Yildirim S, Tıraş E, Nutku F et al. **Electronic transport in n-type modulation-doped AlGaAs/GaAsBi quantum well structures: Influence of Bi and thermal annealing on electron effective mass and electron mobility.** Semiconductor Science and Technology. 2020;35(2). 025009. <https://doi.org/10.1088/1361-6641/ab5d8d>

- Assanto G, Piccardi A, Barboza R, Alberucci A. **Electro-optic steering of nematicons**. *Photonics Letters of Poland*. 2012;4(1):2-4. <https://doi.org/10.4302/plp.2012.1.02>
- Assanto G, Perumbilavil S, Piccardi A, Kauranen M. **Electro-optic steering of random laser emission in liquid crystals**. *Photonics Letters of Poland*. 2018;10(4):103-105. <https://doi.org/10.4302/plp.v10i4.852>
- Lepcha A, Maccato C, Mettenbörger A, Andreu T, Mayrhofer L, Walter M et al. **Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance**. *Journal of Physical Chemistry C*. 2015 elo 20;119(33):18835-18842. <https://doi.org/10.1021/acs.jpcc.5b02767>
- Salmi T, Schoerling D. **Energy density-method: An approach for a quick estimation of quench temperatures in high-field accelerator magnets**. *IEEE Transactions on Applied Superconductivity*. 2019 kesä;29(4). <https://doi.org/10.1109/TASC.2018.2880340>
- Minarelli EL, Poyhönen K, Van Dalum GAR, Ojanen T, Fritz L. **Engineering of Chern insulators and circuits of topological edge states**. *Physical Review B*. 2019 huhti 10;99(16). 165413. <https://doi.org/10.1103/PhysRevB.99.165413>
- Tamminen P, Viheriäkoski T, Sydänheimo L, Ukkonen L. **ESD qualification data used as the basis for building electrostatic discharge protected areas**. *Journal of Electrostatics*. 2015 loka 1;77:174-181. 3024. <https://doi.org/10.1016/j.elstat.2015.08.009>
- Poutala A, Kovanen T, Kettunen L. **Essential Measurements for Finite Element Simulations of Magnetostrictive Materials**. *IEEE Transactions on Magnetics*. 2018;54(1). 7200107. <https://doi.org/10.1109/TMAG.2017.2766599>
- Mashayekhi M, Winchester L, Evans L, Pease T, Laurila M-M, Mäntysalo M et al. **Evaluation of Aerosol, Superfine Inkjet, and Photolithography Printing Techniques for Metallization of Application Specific Printed Electronic Circuits**. *IEEE Transactions on Electron Devices*. 2016 maaliskuu 1;63(3):1246-1253. <https://doi.org/10.1109/TED.2016.2522388>
- Kanerva U, Suhonen T, Lagerbom J, Levänen E. **Evaluation of crushing strength of spray-dried MgAl<sub>2</sub>O<sub>4</sub> granule beds**. *Ceramics International*. 2015 elo 1;41(7):8494-8500. <https://doi.org/10.1016/j.ceramint.2015.03.056>
- Mikkonen R, Mäntysalo M. **Evaluation of screen printed silver trace performance and long-term reliability against environmental stress on a low surface energy substrate**. *Microelectronics Reliability*. 2018 heinä 1;86:54-65. <https://doi.org/10.1016/j.microrel.2018.05.010>
- Prando GA, Orsi Gordo V, Puustinen J, Hilska J, Alghamdi HM, Som G et al. **Exciton localization and structural disorder of GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum wells grown by molecular beam epitaxy on (311)B GaAs substrates**. *Semiconductor Science and Technology*. 2018 heinä 17;33(8). 084002. <https://doi.org/10.1088/1361-6641/aad02e>
- Nejadsattari F, Zhang Y, Bouchard F, Larocque H, Sit A, Cohen E et al. **Experimental realization of wave-packet dynamics in cyclic quantum walks**. *Optica*. 2019 helmi 20;6(2):174-180. <https://doi.org/10.1364/OPTICA.6.000174>
- Lorin C, Fleiter J, Salmi T, Schoerling D. **Exploration of Two Layer Nb<sub>3</sub>Sn Designs of the Future Circular Collider Main Quadrupoles**. *IEEE Transactions on Applied Superconductivity*. 2019 elo 1;29(5). 4001005. <https://doi.org/10.1109/TASC.2019.2892814>
- Khan MN, Zharnikov M. **Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation**. *Journal of Physical Chemistry C*. 2013 marras 27;117(47):24883-24893. <https://doi.org/10.1021/jp408819k>
- Khan MN, Zharnikov M. **Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents**. *Journal of Physical Chemistry C*. 2014 helmi 13;118(6):3093-3101. <https://doi.org/10.1021/jp411353f>

Kulya MS, Katkovnik VY, Egiazarian K, Petrov NV. **Features of correlation measurements of the parameters of pulsed hyperspectral optical fields using an asymmetric interferometer.** Quantum Electronics. 2020;50(7):679-682. <https://doi.org/10.1070/QEL17292>

Fonteyn K, Belahcen A, Kouhia R, Rasilo P, Arkkio A. **FEM for directly coupled magneto-mechanical phenomena in electrical machines.** IEEE Transactions on Magnetics. 2010 elo;46(8):2923-2926. <https://doi.org/10.1109/TMAG.2010.2044148>

Kirby GA, Van Nugteren J, Bajas H, Benda V, Ballarino A, Bajko M et al. **First Cold Powering Test of REBCO Roebel Wound Coil for the EuCARD2 Future Magnet Development Project.** IEEE Transactions on Applied Superconductivity. 2017 kesä 1;27(4). 4003307. <https://doi.org/10.1109/TASC.2017.2653204>

Dongho-Nguimdo GM, Igumbor E, Zambou S, Joubert DP. **First principles prediction of the solar cell efficiency of chalcopyrite materials  $AgMX_2$  (M=In, Al; X=S, Se, Te).** Computational Condensed Matter. 2019 joulu 1;21. e00391. <https://doi.org/10.1016/j.cocom.2019.e00391>

Kulju S, Riegger L, Koltay P, Mattila K, Hyväluoma J. **Fluid flow simulations meet high-speed video: Computer vision comparison of droplet dynamics.** Journal of Colloid and Interface Science. 2018 heinä 15;522:48-56. <https://doi.org/10.1016/j.jcis.2018.03.053>

Välimäki H, Verho J, Kreutzer J, Kattiparambil Rajan D, Rynnänen T, Pekkanen-Mattila M et al. **Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models.** Sensors and Actuators B: Chemical. 2017 loka 1;249:738-746. <https://doi.org/10.1016/j.snb.2017.04.182>

Zolotovskii IO, Korobko DA, Okhotnikov OG. **Frequency modulation of semiconductor disk laser pulses.** Quantum Electronics. 2015;45(7):628-634. <https://doi.org/10.1070/QE2015v045n07ABEH015670>

Fickler R, Bouchard F, Giese E, Grillo V, Leuchs G, Karimi E. **Full-field mode sorter using two optimized phase transformations for high-dimensional quantum cryptography.** Journal of Optics (United Kingdom). 2020;22(2). 024001. <https://doi.org/10.1088/2040-8986/ab6303>

Guandalini A, Rozzi CA, Räsänen E, Pittalis S. **Fundamental gaps of quantum dots on the cheap.** Physical Review B. 2019 maaliskuu 25;99(12). 125140. <https://doi.org/10.1103/PhysRevB.99.125140>

Kurka M, Dyksik M, Suomalainen S, Koivusalo E, Guina M, Motyka M. **GaInAsSb/AlGa(In)AsSb type I quantum wells emitting in 3 $\mu$ m range for application in superluminescent diodes.** Optical Materials. 2019 touko 1;91:274-278. <https://doi.org/10.1016/j.optmat.2019.03.036>

Räsänen V, Suuriniemi S, Kettunen L. **Generalized slip transformations and air-gap harmonics in field models of electrical machines.** IEEE Transactions on Magnetics. 2016 syys 1;52(9). 8107708. <https://doi.org/10.1109/TMAG.2016.2561907>

Zolotovskii IO, Korobko DA, Okhotnikov OG, Stolyarov DA, Sysolyatin AA. **Generation of a broad IR spectrum and N-soliton compression in a longitudinally inhomogeneous dispersion-shifted fibre.** Quantum Electronics. 2015;45(9):844-852. <https://doi.org/10.1070/QE2015v045n09ABEH015690>

Zolotovskii IO, Korobko DA, Gumenyuk RV, Okhotnikov OG. **Generation of bound states of pulses in a soliton laser with complex relaxation of a saturable absorber.** Quantum Electronics. 2015;45(1):26-34. <https://doi.org/10.1070/QE2015v045n01ABEH015558>

Nikkinen J, Härkönen A, Leino I, Guina M. **Generation of Sub-100 ps Pulses at 532, 355, and 266 nm Using a SESAM Q-Switched Microchip Laser.** IEEE Photonics Technology Letters. 2017 marras 1;29(21):1816-1819. <https://doi.org/10.1109/LPT.2017.2752421>



Goh J-Q, Akola J, Ferrando R. **Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study**. Journal of Physical Chemistry C. 2017 touko 25;121(20):10809-10816. <https://doi.org/10.1021/acs.jpcc.6b11958>

Mosallaei M, Jokinen J, Honkanen M, Iso-Ketola P, Vippola M, Vanhala J et al. **Geometry Analysis in Screen-Printed Stretchable Interconnects**. IEEE Transactions on Components, Packaging and Manufacturing Technology. 2018 elo;8(8):1344-1352. <https://doi.org/10.1109/TCPMT.2018.2854635>

Sorianello V, Colace L, Maragliano C, Fulgoni D, Nash L, Assanto G. **Germanium-on-glass solar cells: Fabrication and characterization**. Optical Materials Express. 2013;3(2):216-228. <https://doi.org/10.1364/OME.3.000216>

Ryczkowski P, Barbier M, Friberg AT, Dudley JM, Genty G. **Ghost imaging in the time domain**. Nature Photonics. 2016 helmi 1;(10):167-170. <https://doi.org/10.1038/nphoton.2015.274>

Nieminen A, Marini A, Ornigotti M. **Goos-Hänchen and Imbert-Fedorov shifts for epsilon-near-zero materials**. Journal of Optics. 2020 tammi 28;22(3). 035601. <https://doi.org/10.1088/2040-8986/ab6ae7>

Habib M, Rashed AR, Ozbay E, Caglayan H. **Graphene-based tunable plasmon induced transparency in gold strips**. Optical Materials Express. 2018 huhti 1;8(4):1069-1074. <https://doi.org/10.1364/OME.8.001069>, <https://doi.org/10.1364/OME.8.001069>

Kotilainen M, Krumpolec R, Franta D, Souček P, Homola T, Cameron DC et al. **Hafnium oxide thin films as a barrier against copper diffusion in solar absorbers**. Solar Energy Materials and Solar Cells. 2017 heinä 1;166:140-146. <https://doi.org/10.1016/j.solmat.2017.02.033>

Saccone M, Siiskonen A, Fernandez-Palacio F, Priimägi A, Terraneo G, Resnati G et al. **Halogen bonding stabilizes a cis-azobenzene derivative in the solid state: A crystallographic study**. ACTA CRYSTALLOGRAPHICA SECTION B : STRUCTURAL SCIENCE, CRYSTAL ENGINEERING AND MATERIALS. 2017 huhti 1;73(2):227-233. <https://doi.org/10.1107/S2052520617003444>

Priimägi A, Cavallo G, Forni A, Gorynsztejn-Leben M, Kaivola M, Metrangolo P et al. **Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers**. Advanced Functional Materials. 2012 kesä 20;22(12):2572-2579. <https://doi.org/10.1002/adfm.201200135>

Korobko DA, Stoliarov DA, Itrin PA, Odnoblyudov MA, Petrov AB, Gumenyuk RV. **Harmonic mode-locking fiber ring laser with a pulse repetition rate up to 12 GHz**. Optics and laser technology. 2020;133. 106526. <https://doi.org/10.1016/j.optlastec.2020.106526>

Tofanello A, Freitas ALM, Carvalho WM, Salminen T, Niemi T, Souza FL. **Hematite Surface Modification toward Efficient Sunlight-Driven Water Splitting Activity: The Role of Gold Nanoparticle Addition**. Journal of Physical Chemistry C. 2020. <https://doi.org/10.1021/acs.jpcc.9b11966>

Brandt F, Hiekkamäki M, Bouchard F, Huber M, Fickler R. **High-dimensional quantum gates using full-field spatial modes of photons**. Optica. 2020 helmi 20;7(2):98-107. <https://doi.org/10.1364/OPTICA.375875>

Hannula M, Ali-Löytty H, Lahtonen K, Saari J, Tukiainen A, Valden M. **Highly efficient charge separation in model Z-scheme TiO<sub>2</sub>/TiSi<sub>2</sub>/Si photoanode by micropatterned titanium silicide interlayer**. Acta Materialia. 2019 elo 1;174:237-245. <https://doi.org/10.1016/j.actamat.2019.05.032>

Pajukoski H, Näkki J, Thieme S, Tuominen J, Nowotny S, Vuoristo P. **High performance corrosion resistant coatings by novel coaxial cold- and hot-wire laser cladding methods**. Journal of Laser Applications. 2016;28(1). 012011. <https://doi.org/10.2351/1.4936988>

Aho AT, Viheriälä J, Koskinen M, Uusitalo T, Reuna J, Guina M. **High-Power 1.5  $\mu\text{m}$  Tapered Distributed Bragg Reflector Laser Diodes for Eye-Safe LIDAR.** IEEE Photonics Technology Letters. 2020 loka 1;32(19):1249-1252. <https://doi.org/10.1109/LPT.2020.3019845>

Mojica E, Pertuz S, Arguello H. **High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors.** Optics Communications. 2017;404:103-109. <https://doi.org/10.1016/j.optcom.2017.06.053>

Härö E, Stenvall A, Van Nugteren J, Kirby G. **Hot spot temperature in an HTS Coil: Simulations with MIITs and finite element method.** IEEE Transactions on Applied Superconductivity. 2015 huhti 1;25(2). <https://doi.org/10.1109/TASC.2015.2396945>

Passananti M, Zapadinsky E, Zanca T, Kangasluoma J, Myllys N, Rissanen MP et al. **How well can we predict cluster fragmentation inside a mass spectrometer?** Chemical Communications. 2019;55(42):5946-5949. <https://doi.org/10.1039/c9cc02896j>

Shevkunov I, Katkovnik V, Claus D, Pedrini G, Petrov NV, Egiazarian K. **Hyperspectral phase imaging based on denoising in complex-valued eigensubspace.** Optics and Lasers in Engineering. 2020 huhti 1;127. 105973. <https://doi.org/10.1016/j.optlaseng.2019.105973>

Murtomäki JS, van Nugteren J, Kirby G, DeRijk G, Rossi L, Stenvall A. **ICED - Inductively Coupled Energy Dissipater for Future High Field Accelerator Magnets.** IEEE Transactions on Applied Superconductivity. 2018 joulu;28(8). 4009015. <https://doi.org/10.1109/TASC.2018.2841909>

Rasilo P, Abdallah AAE, Belahcen A, Arkkio A, Dupré L. **Identification of synchronous machine magnetization characteristics from calorimetric core-loss and no-load curve measurements.** IEEE Transactions on Magnetics. 2015 maaliskuu 1;51(3). 2001304. <https://doi.org/10.1109/TMAG.2014.2354055>

Rasilo P, Belahcen A, Arkkio A. **Importance of iron-loss modeling in simulation of wound-field synchronous machines.** IEEE Transactions on Magnetics. 2012;48(9):2495-2504. <https://doi.org/10.1109/TMAG.2012.2195190>

Mosallaei M, Di Vito D, Khorramdel B, Mäntysalo M. **Improvements in the electromechanical properties of stretchable interconnects by locally tuning the stiffness.** Flexible and Printed Electronics. 2020;5(1). 015004. <https://doi.org/10.1088/2058-8585/ab68ae>

Polojärvi V, Aho A, Tukiainen A, Raappana M, Aho T, Schramm A et al. **Influence of As/group-III flux ratio on defects formation and photovoltaic performance of GaInNAs solar cells.** Solar Energy Materials and Solar Cells. 2016 touko 1;149:213-220. <https://doi.org/10.1016/j.solmat.2016.01.024>

Okun O, Kravchenko Y, Korpinen L. **Influence of environmental conditions on EMF levels in a span of overhead transmission lines.** Progress in Electromagnetics Research C. 2016;63:163-171. <https://doi.org/10.2528/PIERC16021106>

Kotilainen M, Honkanen M, Mizohata K, Vuoristo P. **Influence of temperature-induced copper diffusion on degradation of selective chromium oxy-nitride solar absorber coatings.** Solar Energy Materials and Solar Cells. 2016;145:323-332. <https://doi.org/10.1016/j.solmat.2015.10.034>

Bourhis K, Boetti NG, Koponen J, Milanese D, Petit L. **Influence of the P2O5/Al2O3 co-doping on the local environment of erbium ions and on the 1.5  $\mu\text{m}$  quantum efficiency of Er<sup>3+</sup>-borosilicate glasses.** Optical Materials. 2014 maaliskuu;36(5):926-931. <https://doi.org/10.1016/j.optmat.2013.12.035>

Ojha N, Laihininen T, Salminen T, Lastusaari M, Petit L. **Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics.** Ceramics International. 2018 kesä;44(10):11807-11811. <https://doi.org/10.1016/j.ceramint.2018.03.267>

Cook BS, Fang Y, Kim S, Le T, Goodwin WB, Sandhage KH et al. **Inkjet catalyst printing and electroless copper deposition for low-cost patterned microwave passive devices on paper.** *Electronic Materials Letters*. 2013 syys;9(5):669-676. <https://doi.org/10.1007/s13391-013-3027-0>

Le T, Lin Z, Vyas R, Lakafosis V, Yang L, Traille A et al. **Inkjet printing of radio frequency electronics: Design methodologies and application of novel nanotechnologies.** *Journal of Electronic Packaging*. 2013;135(1). 011007. <https://doi.org/10.1115/1.4023671>

Valkealahti S, Manninen M. **Instability of cuboctahedral copper clusters.** *Physical Review B*. 1992 tammi 1;45(16):9459-9462. <https://doi.org/10.1103/PhysRevB.45.9459>

Gupta SK, Wu HH, Kwak KJ, Casal P, Nicholson TR, Wen X et al. **Interfacial design and structure of protein/polymer films on oxidized AlGaN surfaces.** *Journal of Physics D: Applied Physics*. 2011 tammi 26;44(3). 34010. <https://doi.org/10.1088/0022-3727/44/3/034010>

Bhavitha KB, Nair AK, Perumbilavil S, Joseph S, Kala MS, Saha A et al. **Investigating solvent effects on aggregation behaviour, linear and nonlinear optical properties of silver nanoclusters.** *Optical Materials*. 2017 marras 1;73:695-705. <https://doi.org/10.1016/j.optmat.2017.09.024>

Ma L, Jackson KA, Wang J, Horoi M, Jellinek J. **Investigating the metallic behavior of Na clusters using site-specific polarizabilities.** *Physical Review B*. 2014 tammi 24;89(3). 035429. <https://doi.org/10.1103/PhysRevB.89.035429>

Heinonen S, Nikkanen J-P, Huttunen-Saarivirta E, Levänen E. **Investigation of long-term chemical stability of structured ZnO films in aqueous solutions of varying conditions.** *Thin Solid Films*. 2017 syys 30;638:410-419. <https://doi.org/10.1016/j.tsf.2017.07.055>

Murtomäki JS, Kouhia R, Stenvall A, Bottura L, Kirby G, van Nugteren J et al. **Investigation of REBCO Roebel Cable Irreversible Critical Current Degradation Under Transverse Pressure.** *IEEE Transactions on Applied Superconductivity*. 2018 kesä;28(4). 4802506. <https://doi.org/10.1109/TASC.2018.2829150>

Rasilo P, Singh D, Belahcen A, Arkkio A. **Iron losses, magnetoelasticity and magnetostriction in ferromagnetic steel laminations.** *IEEE Transactions on Magnetics*. 2013;49(5):2041-2044. <https://doi.org/10.1109/TMAG.2013.2242857>

Khan MN, Zharnikov M. **Irradiation promoted exchange reaction with disulfide substituents.** *Journal of Physical Chemistry C*. 2013 heinä 18;117(28):14534-14543. <https://doi.org/10.1021/jp4006026>

Ärrälä M, Hafiz H, Mou D, Wu Y, Jiang R, Riedemann T et al. **Laser angle-resolved photoemission as a probe of initial state kz dispersion, final-state band gaps, and spin texture of Dirac states in the Bi<sub>2</sub>Te<sub>3</sub> topological insulator.** *Physical Review B*. 2016 loka 27;94(15). 155144. <https://doi.org/10.1103/PhysRevB.94.155144>

Cappelluti F, Kim D, van Eerden M, Cédola AP, Aho T, Bissels G et al. **Light-trapping enhanced thin-film III-V quantum dot solar cells fabricated by epitaxial lift-off.** *Solar Energy Materials and Solar Cells*. 2018;181:83-92. <https://doi.org/10.1016/j.solmat.2017.12.014>

Laudyn UA, Kwaśny M, Jung PS, Trippenbach M, Assanto G, Karpierz MA. **Linear and nonlinear light beam propagation in chiral nematic liquid crystal waveguides.** *Photonics Letters of Poland*. 2016;8(1):11-13. <https://doi.org/10.4302/plp.2016.1.05>

Assanto G, Piccardi A, Alberucci A, Residori S, Bortolozzo U. **Liquid crystal light valves: A versatile platform for nematicons.** *Photonics Letters of Poland*. 2009;1(4):151-153. <https://doi.org/10.4302/plp.2009.4.03>

Kuisma M, Sakko A, Rossi TP, Larsen AH, Enkovaara J, Lehtovaara L et al. **Localized surface plasmon resonance in silver nanoparticles: Atomistic first-principles time-dependent density-functional theory calculations.** *Physical Review B*. 2015 maaliskuu 24;91(11). 115431. <https://doi.org/10.1103/PhysRevB.91.115431>

Baek J, Umeyama T, Stranius K, Yamada H, Tkachenko NV, Imahori H. **Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges.** *Journal of Physical Chemistry C*. 2017 kesä 29;121(25):13952-13961. <https://doi.org/10.1021/acs.jpcc.7b04483>

Sorianello V, Colace L, Armani N, Rossi F, Ferrari C, Lazzarini L et al. **Low-temperature germanium thin films on silicon.** *Optical Materials Express*. 2011 syys 1;1(5):856-865. <https://doi.org/10.1364/OME.1.000856>

Ghazy A, Safdar M, Lastusaari M, Aho A, Tukiainen A, Savin H et al. **Luminescent (Er,Ho)<sub>2</sub>O<sub>3</sub> thin films by ALD to enhance the performance of silicon solar cells.** *Solar Energy Materials and Solar Cells*. 2020;219. 110787. <https://doi.org/10.1016/j.solmat.2020.110787>

Toral F, Munilla J, Salmi T. **Magnetic and mechanical design of a 16 T common coil dipole for FCC.** *IEEE Transactions on Applied Superconductivity*. 2018;28(3). 4004305. <https://doi.org/10.1109/TASC.2018.2797909>

Rissanen I, Laurson L. **Magnetic non-contact friction from domain wall dynamics actuated by oscillatory mechanical motion.** *Journal of Physics D: Applied Physics*. 2019 elokuu 13;52(44). 445002. <https://doi.org/10.1088/1361-6463/ab351f>

Isoniemi T, Tuukkanen S, Cameron DC, Simonen J, Toppari JJ. **Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene.** *Organic Electronics*. 2015 heinä 9;25:317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>

Zhao J, Stenvall A, Salmi T, Gao Y, Lorin C. **Mechanical behavior of a 16 T FCC dipole magnet during a quench.** *IEEE Transactions on Applied Superconductivity*. 2017;27(6). 4004407. <https://doi.org/10.1109/TASC.2017.2721974>

Barberi J, Nommeots-Nomm A, Fiume E, Verné E, Massera J, Baino F. **Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting.** *Biomedical Glasses*. 2019;5(1):140-147. <https://doi.org/10.1515/bglass-2019-0012>

Murtomaki JS, Van Nugteren J, Kirby G, Rossi L, Ruuskanen J, Stenvall A. **Mechanical Effects of the Nonuniform Current Distribution on HTS Coils for Accelerators Wound With REBCO Roebel Cable.** *IEEE Transactions on Applied Superconductivity*. 2017 kesä 1;27(4). 4100405. <https://doi.org/10.1109/TASC.2017.2665882>

Zhao J, Prioli M, Stenvall A, Salmi T, Gao Y, Caiffi B et al. **Mechanical stress analysis during a quench in CLIQ protected 16 T dipole magnets designed for the future circular collider.** *Physica C: Superconductivity and its Applications*. 2018 heinä 15;550:27-34. <https://doi.org/10.1016/j.physc.2018.04.003>

Magarkar A, Parkkila P, Viitala T, Lajunen T, Mobarak E, Licari G et al. **Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm.** *Chemical Communications*. 2018 huhti 11;54(28):3440-3443. <https://doi.org/10.1039/c8cc00221e>

Sorianello V, Colace L, Assanto G, Nardone M. **Micro-Raman characterization of Germanium thin films evaporated on various substrates.** *Microelectronic Engineering*. 2011 huhti;88(4):492-495. <https://doi.org/10.1016/j.mee.2010.10.028>

Karhu M, Lagerbom J, Solismaa S, Honkanen M, Ismailov A, Räisänen ML et al. **Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics: Effect of mineralogical composition on microstructure and properties.** *Ceramics International*. 2019 maaliskuu;45(4):4840-4848. <https://doi.org/10.1016/j.ceramint.2018.11.180>

Palmolahti L, Ali-Löytty H, Khan R, Saari J, Tkachenko NV, Valden M. **Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO<sub>2</sub> for Enhanced Solar Water Splitting.** *Journal of Physical Chemistry C*. 2020;124(24):13094-13101. <https://doi.org/10.1021/acs.jpcc.0c00798>

Rasappa S, Schulte L, Borah D, Hulkkonen H, Ndoni S, Salminen T et al. **Morphology evolution of PS-b-PDMS block copolymer and its hierarchical directed self-assembly on block copolymer templates.** *Microelectronic Engineering*. 2018 touko 15;192:1-7. <https://doi.org/10.1016/j.mee.2018.02.002>

Korobko DA, Gumenyuk R, Zolotovskii IO, Okhotnikov OG. **Multisoliton complexes in fiber lasers.** *Optical Fiber Technology*. 2014 joulu;20(6):593-609. <https://doi.org/10.1016/j.yofte.2014.08.011>

Hütner J, Herranen T, Laurson L. **Multistep Bloch-line-mediated Walker breakdown in ferromagnetic strips.** *Physical Review B*. 2019 touko 24;99(17). 174427. <https://doi.org/10.1103/PhysRevB.99.174427>

Virtanen H, Uusitalo T, Karjalainen M, Ranta S, Viheriala J, Dumitrescu M. **Narrow-linewidth 780 nm DFB lasers fabricated using nanoimprint lithography.** *IEEE Photonics Technology Letters*. 2018;30(1):51-54. <https://doi.org/10.1109/LPT.2017.2772337>

Sorianello V, De Iacovo A, Colace L, Assanto G. **Near-infrared photodetectors in evaporated ge: Characterization and TCAD simulations.** *IEEE Transactions on Electron Devices*. 2013;60(6):1995-2000. 6515586. <https://doi.org/10.1109/TED.2013.2259241>

Vehanen A, Mäkinen J, Hautajarvi P, Huomo H, Lahtinen J, Nieminen RM et al. **Near-surface defect profiling with slow positrons: Argon-sputtered Al(110).** *Physical Review B*. 1985 tammi 1;32(11):7561-7563. <https://doi.org/10.1103/PhysRevB.32.7561>

Cemlyn B, Adams M, Harbord E, Li N, Henning ID, Oulton R et al. **Near-threshold high spin amplification in a 1300 nm GaInNAs spin laser.** *Semiconductor Science and Technology*. 2018 elo 1;33(9). 094005. <https://doi.org/10.1088/1361-6641/aad42e>

Salpavaara T, Hänninen A, Antniemi A, Lekkala J, Kellomäki M. **Non-destructive and wireless monitoring of biodegradable polymers.** *Sensors and Actuators B: Chemical*. 2017;251:1018-1025. <https://doi.org/10.1016/j.snb.2017.05.116>

Huttunen MJ, Partanen M, Bautista G, Chu S-W, Kauranen M. **Nonlinear optical activity effects in complex anisotropic three-dimensional media.** *Optical Materials Express*. 2015;5(1):11-21. <https://doi.org/10.1364/OME.5.000011>

Piccardi A, Residori S, Assanto G. **Nonlocal soliton scattering in random potentials.** *Journal of Optics*. 2016 heinä 1;18(7). 07LT01. <https://doi.org/10.1088/2040-8978/18/7/07LT01>

Del Cerro PR, Teittinen H, Norrbo I, Lastusaari M, Massera J, Petit L. **Novel borosilicate bioactive scaffolds with persistent luminescence.** *Biomedical Glasses*. 2020;6(1):1-9. <https://doi.org/10.1515/bglass-2020-0001>

Cui S, Massera J, Lastusaari M, Hupa L, Petit L. **Novel oxyfluorophosphate glasses and glass-ceramics.** *Journal of Non-Crystalline Solids*. 2016 elo 1;445-446:40-44. <https://doi.org/10.1016/j.jnoncrysol.2016.05.005>

Caglayan H, Özbay E. **Observation of cavity structures in composite metamaterials.** *Journal of Nanophotonics*. 2010;4(1). 041790. <https://doi.org/10.1117/1.3475763>

Caglayan H, Bulu I, Özbay E. **Observation of off-axis directional beaming via subwavelength asymmetric metallic gratings.** *Journal of Physics D: Applied Physics*. 2009;42(4). 045105. <https://doi.org/10.1088/0022-3727/42/4/045105>

Klauck F, Teuber L, Ornigotti M, Heinrich M, Scheel S, Szameit A. **Observation of PT-symmetric quantum interference.** *Nature Photonics*. 2019 syys 16. <https://doi.org/10.1038/s41566-019-0517-0>

Kuzmin M, Laukkanen P, Yasir M, Mäkelä J, Tuominen M, Dahl J et al. **Observation of unusual metal-semiconductor interaction and metal-induced gap states at an oxide-semiconductor interface: The case of epitaxial BaO/Ge(100) junction**. Physical Review B. 2015 loka 20;92(16). 165311. <https://doi.org/10.1103/PhysRevB.92.165311>

Haapanen J, Aromaa M, Teisala H, Juuti P, Tuominen M, Sillanpää M et al. **On the limit of superhydrophobicity: Defining the minimum amount of TiO<sub>2</sub> nanoparticle coating**. Materials Research Express. 2019;6(3). 035004. <https://doi.org/10.1088/2053-1591/aaf2ee>

Stenvall A, Lahtinen V. **Open Material Property Library With Native Simulation Tool Integrations - MASTO**. IEEE Transactions on Applied Superconductivity. 2018. <https://doi.org/10.1109/TASC.2018.2799850>

Colace L, Sorianello V, Romagnoli M, Socci L, Assanto G. **Optical power monitors in Ge monolithically integrated on SOI chips**. Microelectronic Engineering. 2011 huhti;88(4):514-517. <https://doi.org/10.1016/j.mee.2010.10.033>

Gunes M, Ukelge MO, Donmez O, Erol A, Gumus C, Alghamdi H et al. **Optical properties of GaAs<sub>1-x</sub>Bi<sub>x</sub>/GaAs quantum well structures grown by molecular beam epitaxy on (100) and (311)B GaAs substrates**. Semiconductor Science and Technology. 2018 marras 13;33(12). 124015. <https://doi.org/10.1088/1361-6641/aaea2e>

Ruuskanen J, Stenvall A, Van Nugteren J, Lahtinen V. **Optimization of an E3SPreSSO Energy-Extraction System for High-Field Superconducting Magnets**. IEEE Transactions on Applied Superconductivity. 2018 huhti 1;28(3). 4700805. <https://doi.org/10.1109/TASC.2018.2794457>

Lampio K, Karvinen R. **Optimization of convectively cooled heat sinks**. Microelectronics Reliability. 2017;79:473-479. <https://doi.org/10.1016/j.microrel.2017.06.011>

Jisha CP, Alberucci A. **Paraxial light beams in structured anisotropic media**. Journal of the Optical Society of America A: Optics and Image Science, and Vision. 2017 marras 1;34(11):2019-2024. <https://doi.org/10.1364/JOSAA.34.002019>

Salpavaara T, Järveläinen M, Seppälä S, Yli-Hallila T, Verho J, Vilkkio M et al. **Passive resonance sensor based method for monitoring particle suspensions**. Sensors and Actuators B: Chemical. 2015 kesä 8;219:324-330. <https://doi.org/10.1016/j.snb.2015.04.121>

Valagiannopoulos CA, Tukiainen A, Aho T, Niemi T, Guina M, Tretyakov SA et al. **Perfect magnetic mirror and simple perfect absorber in the visible spectrum**. Physical Review B. 2015 maaliskuu 11;91(11). 115305. <https://doi.org/10.1103/PhysRevB.91.115305>

De Donno D, Tarricone L, Catarinucci L, Lakafosis V, Tentzeris MM. **Performance enhancement of the RFID EPC Gen2 protocol by exploiting collision re-recovery**. Progress in Electromagnetics Research B. 2012;(43):53-72.

Ojha N, Tuomisto M, Lastusaari M, Petit L. **Phosphate glasses with blue persistent luminescence prepared using the direct doping method**. Optical Materials. 2019 tammi;87:151-156. <https://doi.org/10.1016/j.optmat.2018.03.063>

Heinonen S, Kannisto M, Nikkanen J-P, Huttunen-Saarivirta E, Karp M, Levänen E. **Photocatalytic and antibacterial properties of ZnO films with different surface topographies on stainless steel substrate**. Thin Solid Films. 2016 loka 1;616:842-849. <https://doi.org/10.1016/j.tsf.2016.10.002>

Shimamura A, Priimagi A, Mamiya JI, Kinoshita M, Ikeda T, Shishido A. **Photoinduced bending upon pulsed irradiation in azobenzene-containing crosslinked liquid-crystalline polymers**. Journal of Nonlinear Optical Physics and Materials. 2011 syys;20(4):405-413. <https://doi.org/10.1142/S0218863511006200>

Virkki K, Hakola H, Urbani M, Tejerina L, Ince M, Martínez-Díaz MV et al. **Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods: Aggregation Effects**. Journal of Physical Chemistry C. 2017 touko 4;121(17):9594-9605. <https://doi.org/10.1021/acs.jpcc.7b01562>

Virkki K, Demir S, Lemmetyinen H, Tkachenko NV. **Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids**. *Journal of Physical Chemistry C*. 2015 heinä 23;119(31):17561-17572. <https://doi.org/10.1021/acs.jpcc.5b04251>

Vapaavuori J, Priimagi A, Soininen AJ, Canilho N, Kasémi E, Ruokolainen J et al. **Photoinduced surface patterning of azobenzene-containing supramolecular dendrons, dendrimers and dendronized polymers**. *Optical Materials Express*. 2013;3(6):711-722. <https://doi.org/10.1364/OME.3.000711>

Baek J, Umeyama T, Mizuno S, Tkachenko NV, Imahori H. **Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems**. *Journal of Physical Chemistry C*. 2017;121(39). <https://doi.org/10.1021/acs.jpcc.7b08594>

Isoaho R, Aho A, Tukiainen A, Aho T, Raappana M, Salminen T et al. **Photovoltaic properties of low-bandgap (0.7–0.9eV) lattice-matched GaInNAsSb solar junctions grown by molecular beam epitaxy on GaAs**. *Solar Energy Materials and Solar Cells*. 2019 kesä 15;195:198-203. <https://doi.org/10.1016/j.solmat.2019.02.030>

Ozbay E, Bulu I, Aydin K, Caglayan H, Guven K. **Physics and applications of photonic crystals**. *Photonics and Nanostructures - Fundamentals and Applications*. 2004 loka;2(2):87-95. <https://doi.org/10.1016/j.photonics.2004.08.001>

Viitala M, Kuisma M, Rantala TT. **Physisorption of benzene on a tin dioxide surface: Van der Waals interaction**. *Physical Review B*. 2012 helmi 8;85(8):1-5. 085412. <https://doi.org/10.1103/PhysRevB.85.085412>

Selvan NT, Eshwaran SB, Das A, Stöckelhuber KW, Wießner S, Pötschke P et al. **Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications**. *Sensors and Actuators, A: Physical*. 2016 maaliskuu 1;239:102-113. <https://doi.org/10.1016/j.sna.2016.01.004>

Borah D, Shaw MT, Rasappa S, Farrell RA, O'Mahony C, Faulkner CM et al. **Plasma etch technologies for the development of ultra-small feature size transistor devices**. *Journal of Physics D: Applied Physics*. 2011 touko 4;44(17). 174012. <https://doi.org/10.1088/0022-3727/44/17/174012>

Yildiz BC, Bek A, Tasgin ME. **Plasmon lifetime enhancement in a bright-dark mode coupled system**. *Physical Review B*. 2020 tammi 16;101(3). 035416. <https://doi.org/10.1103/PhysRevB.101.035416>

Aihara Y, Kinoshita M, Wang J, Mamiya JI, Priimagi A, Shishido A. **Polymer stabilization enhances the orientational optical nonlinearity of oligothiophene-doped nematic liquid crystals**. *Advanced Optical Materials*. 2013 marrasku 1(11):787-791. <https://doi.org/10.1002/adom.201300326>

Donmez O, Aydin M, Ardali, Yildirim S, Tıraş E, Erol A et al. **Power loss mechanisms in n-type modulation-doped AlGaAs/GaAsBi quantum well heterostructures**. *Semiconductor Science and Technology*. 2020;35(9). 095038. <https://doi.org/10.1088/1361-6641/ab94d9>

Kleiven D, Akola J. **Precipitate formation in aluminium alloys: Multi-scale modelling approach**. *Acta Materialia*. 2020 elo 15;195:123-131. <https://doi.org/10.1016/j.actamat.2020.05.050>

Lin Z, Le T, Song X, Yao Y, Li Z, Moon KS et al. **Preparation of water-based carbon nanotube inks and application in the inkjet printing of carbon nanotube gas sensors**. *Journal of Electronic Packaging*. 2013;135(1). 011001. <https://doi.org/10.1115/1.4023758>

Heikkinen JJ, Kivimäki L, Hytönen VP, Kulomaa MS, Hormi OEO. **Printable and flexible macroporous organosilica film with high protein adsorption capacity**. *Thin Solid Films*. 2012 tammi 1;520(6):1934-1937. <https://doi.org/10.1016/j.tsf.2011.09.041>

Wani OM, Zeng H, Wasylczyk P, Priimagi A. **Programming Photoresponse in Liquid Crystal Polymer Actuators with Laser Projector**. *Advanced Optical Materials*. 2018;6(1). 1700949. <https://doi.org/10.1002/adom.201700949>

Todesco E, Annarella M, Ambrosio G, Apollinari G, Ballarino A, Bajas H et al. **Progress on HL-LHC Nb<sub>3</sub>Sn Magnets**. IEEE Transactions on Applied Superconductivity. 2018 kesä 1;28(4). 4008809. <https://doi.org/10.1109/TASC.2018.2830703>

Kwaśny M, Laudyn UA, Sala FA, Piccardi A, Alberucci A, Karpierz MA et al. **Properties of nematicons in low-birefringence nematic liquid crystals**. Photonics Letters of Poland. 2013;5(1):8-10. <https://doi.org/10.4302/plp.2013.1.04>

Marchevsky M, Turqueti M, Cheng DW, Felice H, Sabbi G, Salmi T et al. **Protection Heater Design Validation for the LARP Magnets Using Thermal Imaging**. IEEE Transactions on Applied Superconductivity. 2016 kesä 1;26(4). 4003605. <https://doi.org/10.1109/TASC.2016.2530161>

Marinozzi V, Bellomo G, Caiffi B, Fabbriatore P, Farinon S, Salmi T et al. **Quench Protection Study of the Eurocircol 16 T cosθ Dipole for the Future Circular Collider (FCC)**. IEEE Transactions on Applied Superconductivity. 2017 kesä 1;27(4). 4702505. <https://doi.org/10.1109/TASC.2017.2656156>

Marinozzi V, Ambrosio G, Ferracin P, Izquierdo Bermudez S, Rysti J, Salmi T et al. **Quench Protection Study of the Updated MQXF for the LHC Luminosity Upgrade (HiLumi LHC)**. IEEE Transactions on Applied Superconductivity. 2016 kesä 1;26(4). 4001805. <https://doi.org/10.1109/TASC.2016.2523548>

Bulu I, Caglayan H, Ozbay E. **Radiation properties of sources inside photonic crystals**. Physical Review B - Condensed Matter and Materials Physics. 2003 touko 15;67(20). <https://doi.org/10.1103/PhysRevB.67.205103>

Sakho EHM, Oluwafemi OS, Perumbilavil S, Philip R, Kala MS, Thomas S et al. **Rapid and facile synthesis of graphene oxide quantum dots with good linear and nonlinear optical properties**. Journal of Materials Science: Materials in Electronics. 2016;27(10):10926–10933. <https://doi.org/10.1007/s10854-016-5204-z>

Auer S, Koho T, Uusi-Kerttula H, Vesikari T, Blazevic V, Hytönen VP. **Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor**. Sensors and Actuators B: Chemical. 2015 joulu 31;221:507-514. <https://doi.org/10.1016/j.snb.2015.06.088>

Li Z, Le T, Wu Z, Yao Y, Li L, Tentzeris M et al. **Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas**. Advanced Functional Materials. 2015 tammi 21;25(3):464-470. <https://doi.org/10.1002/adfm.201403275>

Vetter C, Steinkopf R, Bergner K, Ornigotti M, Nolte S, Gross H et al. **Realization of Free-Space Long-Distance Self-Healing Bessel Beams**. Laser and Photonics Reviews. 2019 loka 1;13(10). 1900103. <https://doi.org/10.1002/lpor.201900103>

Ryczkowski P, Närhi M, Billet C, Merolla JM, Genty G, Dudley JM. **Real-time full-field characterization of transient dissipative soliton dynamics in a mode-locked laser**. Nature Photonics. 2018;12:221–227. <https://doi.org/10.1038/s41566-018-0106-7>

Assanto G, Smyth NF, Xia W. **Refraction of nonlinear light beams in nematic liquid crystals**. Journal of Nonlinear Optical Physics and Materials. 2012 syys;21(3). 1250033. <https://doi.org/10.1142/S0218863512500336>

Veber A, Smedskjaer MM, de Ligny D. **Relaxation behavior of densified sodium aluminoborate glass**. Acta Materialia. 2020 loka 1;198:153-167. <https://doi.org/10.1016/j.actamat.2020.07.068>

Suhonen T, Varis T, Dosta S, Torrell M, Guilemany JM. **Residual stress development in cold sprayed Al, Cu and Ti coatings**. Acta Materialia. 2013 loka;61(17):6329-6337. <https://doi.org/10.1016/j.actamat.2013.06.033>



Miller TL, Ärrälä M, Smallwood CL, Zhang W, Hafiz H, Barbiellini B et al. **Resolving unoccupied electronic states with laser ARPES in bismuth-based cuprate superconductors.** Physical Review B. 2015 helmi 13;91(8). 085109. <https://doi.org/10.1103/PhysRevB.91.085109>

Trujillo-Sevilla JM, Katkovnik V, Javidi B, Rodríguez-Ramos JM. **Restoring Integral Images from Focal Stacks Using Compressed Sensing Techniques.** Journal of Display Technology. 2016 heinä 1;12(7):701-706. <https://doi.org/10.1109/JDT.2016.2522922>

Joost U, Sutka A, Oja M, Smits K, Doebelin N, Loot A et al. **Reversible photodoping of TiO<sub>2</sub> nanoparticles.** Chemistry of Materials. 2018 joulu 26;30(24):8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>

Myllymäki S, Putaala J, Hannu J, Kunnari E, Mäntysalo M. **RF measurements to pinpoint defects in inkjet-printed, thermally and mechanically stressed coplanar waveguides.** Microelectronics Reliability. 2016 loka 1;65:142-150. <https://doi.org/10.1016/j.microrel.2016.08.021>

Akhmediev N, Kibler B, Baronio F, Belić M, Zhong WP, Zhang Y et al. **Roadmap on optical rogue waves and extreme events.** Journal of Optics. 2016 kesä 1;18(6). 063001. <https://doi.org/10.1088/2040-8978/18/6/063001>

Şahin E, Onural L. **Scalar diffraction field calculation from curved surfaces via Gaussian beam decomposition.** Journal of the Optical Society of America A: Optics Image Science and Vision. 2012 heinä 1;29(7):1459-1469. <https://doi.org/10.1364/JOSAA.29.001459>

Belahcen A, Rasilo P, Arkkio A. **Segregation of iron losses from rotational field measurements and application to electrical machine.** IEEE Transactions on Magnetics. 2014 helmi;50(2). 7022104. <https://doi.org/10.1109/TMAG.2013.2284606>

Chang B, Sariola V, Jääskeläinen M, Zhou Q. **Self-alignment in the stacking of microchips with mist-induced water droplets.** Journal of Micromechanics and Microengineering. 2011 tammi;21(1). 015016. <https://doi.org/10.1088/0960-1317/21/1/015016>

Chang B, Routa I, Sariola V, Zhou Q. **Self-alignment of RFID dies on four-pad patterns with water droplet for sparse self-assembly.** Journal of Micromechanics and Microengineering. 2011 syys;21(9). 095024. <https://doi.org/10.1088/0960-1317/21/9/095024>

Ouskova E, Vapaavuori J, Kaivola M. **Self-orienting liquid crystal doped with polymer-azo-dye complex.** Optical Materials Express. 2011 joulu 1;1(8):1463-1470.

Lahtinen V, Stenvall A. **Semantics of HTS AC Loss Modeling: Theories, Models, and Experiments.** IEEE Transactions on Applied Superconductivity. 2020 elo 1;30(5). 5900809. <https://doi.org/10.1109/TASC.2020.2976619>

Nair DG, Rasilo P, Arkkio A. **Sensitivity Analysis of Inverse Thermal Modeling to Determine Power Losses in Electrical Machines.** IEEE Transactions on Magnetics. 2018 marras;54(11). 8109405. <https://doi.org/10.1109/TMAG.2018.2853084>

Goh J-Q, Malola S, Häkkinen H, Akola J. **Silver sulfide nanoclusters and the superatom model.** Journal of Physical Chemistry C. 2015 tammi 22;119(3):1583-1590. <https://doi.org/10.1021/jp511037x>

Valkealahti S, Manninen M. **Simulation of cluster growth using a lattice gas model.** Physical Review B. 1994 tammi 1;50(23):17564-17574. <https://doi.org/10.1103/PhysRevB.50.17564>

Virtanen H, Uusitalo T, Dumitrescu M. **Simulation studies of DFB laser longitudinal structures for narrow linewidth emission.** Optical and Quantum Electronics. 2017 maaliskuu 23;49(4). 160. <https://doi.org/10.1007/s11082-017-0993-8>

Gadelovits S, Sitbon M, Suntio T, Kuperman A. **Single-source multibattery solar charger: Case study and implementation issues.** Progress in Photovoltaics: Research and Applications. 2015 marras 25;23(12):1916-1928. <https://doi.org/10.1002/ppp.2591>

Borah D, Rasappa S, Salaun M, Zellsman M, Lorret O, Lontos G et al. **Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned poss substrates fabricated by nanoimprint lithography.** *Advanced Functional Materials*. 2015 kesä 1;25(22):3425-3432. <https://doi.org/10.1002/adfm.201500100>

Kolesnik S, Sitbon M, Lineykin S, Batzelis E, Papathanassiou S, Suntio T et al. **Solar Irradiation Independent Expression for Photovoltaic Generator Maximum Power Line.** *IEEE Journal of Photovoltaics*. 2017;7(5):1416-1420. <https://doi.org/10.1109/JPHOTOV.2017.2713404>

Alberucci A, Piccardi A, Kravets N, Buchnev O, Assanto G. **Soliton enhancement of spontaneous symmetry breaking.** *Optica*. 2015;2(9):783-789. <https://doi.org/10.1364/OPTICA.2.000783>

Alekseev A, Ihalainen P, Ivanov A, Domnin I, Rosqvist E, Lemmetyinen H et al. **Stable blue phase polymeric Langmuir-Schaefer films based on unsymmetrical hydroxyalkadiynyl N-arylcarbamate derivatives.** *Thin Solid Films*. 2018;645:108-118. <https://doi.org/10.1016/j.tsf.2017.10.018>

Laurila MM, Khorrarnadel B, Dastpak A, Mäntysalo M. **Statistical analysis of E-jet print parameter effects on Ag-nanoparticle ink droplet size.** *Journal of Micromechanics and Microengineering*. 2017 elo 2;27(9). 095005. <https://doi.org/10.1088/1361-6439/aa7a71>

Kirby G, Rossi L, Badel A, Bajko M, Ballarino A, Bottura L et al. **Status of the Demonstrator Magnets for the EuCARD-2 Future Magnets Project.** *IEEE Transactions on Applied Superconductivity*. 2016 huhti 1;26(3). 4003307. <https://doi.org/10.1109/TASC.2016.2528544>

Stumpel JE, Gil ER, Spoelstra AB, Bastiaansen CWM, Broer DJ, Schenning APHJ. **Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels.** *Advanced Functional Materials*. 2015;25(22):3314-3320. <https://doi.org/10.1002/adfm.201500745>

Bottura L, Bonasia A, Borgnolutti F, Gaertner W, Le Naour S, Oberli L et al. **Strand and cable R&D for fast cycled magnets at CERN.** *IEEE Transactions on Applied Superconductivity*. 2011 kesä;21(3 PART 2):2354-2358. <https://doi.org/10.1109/TASC.2011.2105236>

Rajala S, Mettänen M, Tuukkanen S. **Structural and Electrical Characterization of Solution-Processed Electrodes for Piezoelectric Polymer Film Sensors.** *IEEE Sensors Journal*. 2016 maaliskuu 15;16(6):1692-1699. <https://doi.org/10.1109/JSEN.2015.2504956>

Tainio JM, Salazar DAA, Nommeots-Nomm A, Roiland C, Bureau B, Neuville DR et al. **Structure and in vitro dissolution of Mg and Sr containing borosilicate bioactive glasses for bone tissue engineering.** *Journal of Non-Crystalline Solids*. 2020 huhti 1;533. 119893. <https://doi.org/10.1016/j.jnoncrysol.2020.119893>

Marinozzi V, Ambrosio G, Bellomo G, Chlachidze G, Felice H, Marchevsky M et al. **Study of quench protection for the Nb<sub>3</sub>Sn low-β quadrupole for the LHC luminosity upgrade (HiLumi-LHC).** *IEEE Transactions on Applied Superconductivity*. 2015 kesä 1;25(3). 4002905. <https://doi.org/10.1109/TASC.2014.2383435>

Nikkinen J, Savitski V, Reilly S, Dziechciarzyk L, Härkönen A, Kemp A et al. **Sub-100 ps monolithic diamond Raman laser emitting at 573 nm.** *IEEE Photonics Technology Letters*. 2018;30(11):981-984. <https://doi.org/10.1109/LPT.2018.2806183>

Bitarafan MH, Suomala S, Toivonen J. **Sub-microwatt direct laser writing of fluorescent gold nanoclusters in polymer films.** *Optical Materials Express*. 2020;10(1):138-148. <https://doi.org/10.1364/OME.381901>

Lyly M, Krooshoop E, Lübkemann R, Wessel S, Stenvall A, Dhalle M et al. **Suitability of bundle approximation in AC loss analysis of NbTi wires: Simulations and experiment.** *IEEE Transactions on Applied Superconductivity*. 2015 kesä 1;25(3). <https://doi.org/10.1109/TASC.2014.2376184>

Salmi T, Prioli M, Stenvall A, Ruuskanen J, Verweij AP, Auchmann B et al. **Suitability of Different Quench Protection Methods for a 16 T Block-Type Nb<sub>3</sub>Sn Accelerator Dipole Magnet**. IEEE Transactions on Applied Superconductivity. 2017 kesä 1;27(4). 4702305. <https://doi.org/10.1109/TASC.2017.2651386>

Goh JQ, Akola J. **Superatom Model for Ag-S Nanocluster with Delocalized Electrons**. Journal of Physical Chemistry C. 2015 syys 10;119(36):21165-21172. <https://doi.org/10.1021/acs.jpcc.5b05824>

Orsila L, Sand J, Närhi M, Genty G, Steinmeyer G. **Supercontinuum generation as a signal amplifier**. Optica. 2015;2(8):757-764. <https://doi.org/10.1364/OPTICA.2.000757>

Julku A, Peltonen TJ, Liang L, Heikkilä TT, Törmä P. **Superfluid weight and Berezinskii-Kosterlitz-Thouless transition temperature of twisted bilayer graphene**. Physical Review B. 2020 helmi 1;101(6). 060505. <https://doi.org/10.1103/PhysRevB.101.060505>

Rondin L, Dantelle G, Slablab A, Grosshans F, Treussart F, Bergonzo P et al. **Surface-induced charge state conversion of nitrogen-vacancy defects in nanodiamonds**. Physical Review B. 2010 syys 28;82(11). 115449. <https://doi.org/10.1103/PhysRevB.82.115449>

Koskela JE, Vapaavuori J, Hautala J, Priimagi A, Faul CFJ, Kaivola M et al. **Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes**. Journal of Physical Chemistry C. 2012 tammi 26;116(3):2363-2370. <https://doi.org/10.1021/jp210706n>

Wang Q, Sun Z, Rotenberg E, Ronning F, Bauer ED, Lin H et al. **Symmetry-broken electronic structure and uniaxial Fermi surface nesting of untwinned CaFe<sub>2</sub>As<sub>2</sub>**. Physical Review B. 2013 joulu 26;88(23). 235125. <https://doi.org/10.1103/PhysRevB.88.235125>

Wu H, Ryczkowski P, Friberg AT, Dudley JM, Genty G. **Temporal ghost imaging using wavelength conversion and two-color detection**. Optica. 2019 heinä 20;6(7):902-906. <https://doi.org/10.1364/OPTICA.6.000902>

Bajas H, Ambrosio G, Anerella M, Bajko M, Bossert R, Bottura L et al. **Test results of the LARP HQ02b magnet at 1.9 K**. IEEE Transactions on Applied Superconductivity. 2015 kesä 1;25(3). 4003306. <https://doi.org/10.1109/TASC.2014.2378375>

DiMarco J, Ambrosio G, Anerella M, Bajas H, Chlachidze G, Borgnolutti F et al. **Test Results of the LARP Nb<sub>3</sub>Sn Quadrupole HQ03a**. IEEE Transactions on Applied Superconductivity. 2016 kesä 1;26(4). 4005105. <https://doi.org/10.1109/TASC.2016.2528283>

Tommasini D, Auchmann B, Bajas H, Bajko M, Ballarino A, Bellomo G et al. **The 16 T Dipole Development Program for FCC**. IEEE Transactions on Applied Superconductivity. 2017 kesä 1;27(4). 4000405. <https://doi.org/10.1109/TASC.2016.2634600>

Kaunisto K, Kotilainen M, Karhu M, Lagerbom J, Vuorinen T, Honkanen M et al. **The effect of carbon and nickel additions on the precursor synthesis of Cr<sub>3</sub>C<sub>2</sub>-Ni nanopowder**. Ceramics International. 2018 kesä 1;44(8):9338-9346. <https://doi.org/10.1016/j.ceramint.2018.02.146>

Goyos-Ball L, Prado C, Díaz R, Fernández E, Ismailov A, Kumpulainen T et al. **The effects of laser patterning 10CeTzP-Al<sub>2</sub>O<sub>3</sub> nanocomposite disc surfaces: Osseous differentiation and cellular arrangement in vitro**. Ceramics International. 2018 kesä;44(8):9472-9478. <https://doi.org/10.1016/j.ceramint.2018.02.164>

Rossi L, Badel A, Bajko M, Ballarino A, Bottura L, Dhallé MMJ et al. **The EuCARD-2 future magnets European collaboration for accelerator-quality HTS magnets**. IEEE Transactions on Applied Superconductivity. 2015 kesä 1;25(3). 4001007. <https://doi.org/10.1109/TASC.2014.2364215>

Rossi L, Badel A, Bajas H, Bajko M, Ballarino A, Barth C et al. **The EuCARD2 Future Magnets Program for particle accelerator high field dipoles: review of results and next steps.** IEEE Transactions on Applied Superconductivity. 2018 huhti;28(3). <https://doi.org/10.1109/TASC.2017.2784357>

Salmi T, Stenvall A. **The Impact of Protection Heater Delays Distribution on the Hotspot Temperature in a High-Field Accelerator Magnet.** IEEE Transactions on Applied Superconductivity. 2016 kesä 1;26(4). 4001405. <https://doi.org/10.1109/TASC.2016.2517238>

Valkealahti S, Welch DO. **Theoretical studies of structural properties of the high- $T_c$  superconductor  $Y_{1-x}Ba_xCu_3O_{7-x}$ .** Physica C: Superconductivity and its Applications. 1989 tammi 1;162-164(PART 1):540-541. [https://doi.org/10.1016/0921-4534\(89\)91145-3](https://doi.org/10.1016/0921-4534(89)91145-3)

Alekseev A, Ihalainen P, Ivanov A, Domnin I, Klechkovskaya V, Orekhov A et al. **The red, purple and blue modifications of polymeric unsymmetrical hydroxyalkadiynyl-N-arylcarbamate derivatives in Langmuir-Schaefer films.** Thin Solid Films. 2016 elo 1;612:463-471. <https://doi.org/10.1016/j.tsf.2016.06.044>

Kylänpää I, Cavaliere F, Ziani NT, Sassetti M, Räsänen E. **Thermal effects on the Wigner localization and Friedel oscillations in many-electron nanowires.** Physical Review B. 2016 syys 13;94(11). 115417. <https://doi.org/10.1103/PhysRevB.94.115417>

Sorianello V, Colace L, Assanto G, Notargiacomo A, Armani N, Rossi F et al. **Thermal evaporation of Ge on Si for near infrared detectors: Material and device characterization.** Microelectronic Engineering. 2011 huhti;88(4):526-529. <https://doi.org/10.1016/j.mee.2010.09.024>

Sorianello V, Colace L, Nardone M, Assanto G. **Thermally evaporated single-crystal Germanium on Silicon.** Thin Solid Films. 2011 syys 1;519(22):8037-8040. <https://doi.org/10.1016/j.tsf.2011.06.023>

Soltani I, Hraiech S, Horchani-Naifer K, Massera J, Petit L, Férid M. **Thermal, structural and optical properties of Er<sup>3+</sup> doped phosphate glasses containing silver nanoparticles.** Journal of Non-Crystalline Solids. 2016 huhti 15;438:67-73. <https://doi.org/10.1016/j.jnoncrsol.2015.12.022>

Borah D, Rasappa S, Senthamarai kannan R, Shaw MT, Holmes JD, Morris MA. **The sensitivity of random polymer brush-lamellar polystyrene-b-polymethylmethacrylate block copolymer systems to process conditions.** Journal of Colloid and Interface Science. 2013 maaliskuu 1;393(1):192-202. <https://doi.org/10.1016/j.jcis.2012.10.070>

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

Laudyn UA, Kwaśny M, Karpierz MA, Assanto G. **Three-color vector nematicon.** Photonics Letters of Poland. 2017;9(2):36-38. <https://doi.org/10.4302/plp.v9i2.718>

van Nugteren J, Kirby G, Murtomaki J, DeRijk G, Rossi L, Stenvall A. **Towards REBCO 20T+ Dipoles for Accelerators.** IEEE Transactions on Applied Superconductivity. 2018 kesä;28(4). 4008509. <https://doi.org/10.1109/TASC.2018.2820177>

Giammarco J, Zdyrko B, Petit L, Musgraves JD, Hu J, Agarwal A et al. **Towards universal enrichment nanocoating for IR-ATR waveguides.** Chemical Communications. 2011 elo 28;47(32):9104-9106. <https://doi.org/10.1039/c1cc12780b>

Özbay E, Bulu I, Caglayan H. **Transmission, refraction, and focusing properties of labyrinth based left-handed metamaterials.** Physica Status Solidi (B) Basic Research. 2007 huhti;244(4):1202-1210. <https://doi.org/10.1002/pssb.200674507>

Hongisto M, Veber A, Boetti NG, Danto S, Jubera V, Petit L. **Transparent Yb<sup>3+</sup> doped phosphate glass-ceramics.** *Ceramics International*. 2020 tammi 1. <https://doi.org/10.1016/j.ceramint.2020.01.121>

Edwards TEJ, Di Gioacchino F, Goodfellow AJ, Mohanty G, Wehrs J, Michler J et al. **Transverse deformation of a lamellar TiAl alloy at high temperature by in situ microcompression.** *Acta Materialia*. 2019 maaliskuu 1;166:85-99. <https://doi.org/10.1016/j.actamat.2018.11.050>

Huda MN, Kezilebieke S, Ojanen T, Drost R, Liljeroth P. **Tuneable topological domain wall states in engineered atomic chains.** *npj Quantum Materials*. 2020;5(1). 17. <https://doi.org/10.1038/s41535-020-0219-3>

Kulju S, Akola J, Prendergast D, Jones RO. **Tuning electronic properties of graphene heterostructures by amorphous-to-crystalline phase transitions.** *Physical Review B*. 2016 touko 31;93(19). 195443. <https://doi.org/10.1103/PhysRevB.93.195443>

Javanainen M, Melcrová A, Magarkar A, Jurkiewicz P, Hof M, Jungwirth P et al. **Two cations, two mechanisms: Interactions of sodium and calcium with zwitterionic lipid membranes.** *Chemical Communications*. 2017;53(39):5380-5383. <https://doi.org/10.1039/c7cc02208e>

Dutta R, Friberg AT, Genty G, Turunen J. **Two-time coherence of pulse trains and the integrated degree of temporal coherence.** *Journal of the Optical Society of America A: Optics Image Science and Vision*. 2015;32(9):1631-1637. <https://doi.org/10.1364/JOSAA.32.001631>

Murakami M, Kohara S, Kitamura N, Akola J, Inoue H, Hirata A et al. **Ultrahigh-pressure form of Si O<sub>2</sub> glass with dense pyrite-type crystalline homology.** *Physical Review B*. 2019 tammi 29;99(4). 045153. <https://doi.org/10.1103/PhysRevB.99.045153>

Lång JJK, Punkkinen MPJ, Tuominen M, Hedman HP, Vähä-Heikkilä M, Polojärvi V et al. **Unveiling and controlling the electronic structure of oxidized semiconductor surfaces: Crystalline oxidized InSb(100)(1 × 2)-O: Crystalline oxidized InSb(100)(1 × 2)-O.** *Physical Review B*. 2014 heinä 29;90(4):1-9. 045312. <https://doi.org/10.1103/PhysRevB.90.045312>

Ruuskanen J, Stenvall A, Lahtinen V. **Utilizing triangular mesh with MMEV to study hysteresis losses of round superconductors obeying critical state model.** *IEEE Transactions on Applied Superconductivity*. 2015 kesä 1;25(3). 8200405. <https://doi.org/10.1109/TASC.2014.2365408>

Pavelescu EM, Băltăţeanu N, Spănulescu SI, Arola E. **Very high dose electron irradiation effects on photoluminescence from GaInNAs/GaAs quantum wells grown by molecular beam epitaxy.** *Optical Materials*. 2017 helmi 1;64:361-365. <https://doi.org/10.1016/j.optmat.2016.12.007>

Izdebskaya Y, Krolkowski W, Smyth NF, Assanto G. **Vortex stabilization by means of spatial solitons in nonlocal media.** *Journal of Optics*. 2016 touko 1;18(5). 054006. <https://doi.org/10.1088/2040-8978/18/5/054006>

Heydari G, Sedighi Moghaddam M, Tuominen M, Fielden M, Haapanen J, Mäkelä JM et al. **Wetting hysteresis induced by temperature changes: Supercooled water on hydrophobic surfaces.** *Journal of Colloid and Interface Science*. 2016 huhti 15;468:21-33. <https://doi.org/10.1016/j.jcis.2016.01.040>

Akbari M, Virkki J, Sydänheimo L, Ukkonen L. **Toward Graphene-Based Passive UHF RFID Textile Tags: A Reliability Study.** *IEEE Transactions on Device and Materials Reliability*. 2016 syys 1;16(3):429-431. <https://doi.org/10.1109/TDMR.2016.2582261>

Assanto G. **Nonlinear optics applications: In memory of George I. Stegeman.** *Photonics Letters of Poland*. 2016;8(1):1. <https://doi.org/10.4302/plp.2016.1.01>

Luo Z, Bao Q, Caglayan H, Jia B, Zhang H. **Novel optical and photonic devices based on 2D materials: Feature issue introduction.** *Optical Materials Express*. 2020;10(6):1344-1345. <https://doi.org/10.1364/OME.396413>

Hu J, (ed.), Mawst L, (ed.), Moss S, (ed.), Petit L, (ed.), Ting D, (ed.). **Special Issue: Mid-infrared optical materials and their device applications.** Optical Materials Express. 2018;8(7).

Luo Z, (ed.), Bao Q, (ed.), Caglayan H, (ed.), Jia B, (ed.), Zhang H, (ed.). **Special Issue: Novel Optical and Photonic Devices based on 2D Materials.** Optical Materials Express. 2020;10(6).

Genty G, Friberg AT, Turunen J. **Coherence of Supercontinuum Light.** julkaisussa Progress in Optics. Vuosikerta 61. Elsevier. 2016. (Progress in Optics). <https://doi.org/10.1016/bs.po.2015.10.002>

Kantola E, Leinonen T, Ranta S, Tavast M, Penttinen J-P, Guina M. **1180nm VECSEL with 50 W output power.** julkaisussa Proceedings of SPIE - The International Society for Optical Engineering. Vuosikerta 9349. SPIE. 2015. 93490U <https://doi.org/10.1117/12.2079480>

Kosunen M, Lemberg J, Martelius M, Roverato E, Nieminen T, Englund M et al. **13.5 A 0.35-to-2.6GHz multilevel outphasing transmitter with a digital interpolating phase modulator enabling up to 400MHz instantaneous bandwidth.** julkaisussa 2017 IEEE International Solid-State Circuits Conference, ISSCC 2017. IEEE. 2017. s. 224-225 <https://doi.org/10.1109/ISSCC.2017.7870342>

Viheriälä J, Tuorila H, Zia N, Cherchi M, Aalto T, Guina M. **1.3µm U-bend traveling wave SOA devices for high efficiency coupling to silicon photonics.** julkaisussa Reed GT, Knights AP, toimittajat, Silicon Photonics XIV. SPIE, IEEE. 2019. 109230E. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2505935>

Mereuta A, Nechay K, Caliman A, Suruceanu G, Gallo P, Guina M et al. **1.55-µm wavelength wafer-fused OP-VECSELs in flip-chip configuration.** julkaisussa Keller U, toimittaja, Vertical External Cavity Surface Emitting Lasers (VECSELs) IX. SPIE, IEEE. 2019. 1090103. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2508342>

Bhalerao SR, Lupo D, Berger PR. **2-volt Solution-Processed, Indium Oxide (In<sub>2</sub>O<sub>3</sub>) Thin Film Transistors on flexible Kapton.** julkaisussa 2019 IEEE International Flexible Electronics Technology Conference, IFETC 2019. IEEE. 2019 <https://doi.org/10.1109/IFETC46817.2019.9073721>

Yadav A, Chichkov NB, Gumenyuk R, Zhrebtsov E, Melkumov MA, Yashkov MV et al. **405-nm pumped Ce<sup>3+</sup>-doped silica fiber for broadband fluorescence from cyan to red.** julkaisussa Digonnet MJF, Jiang S, toimittajat, Optical Components and Materials XVI. SPIE, IEEE. 2019. 1091406. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2509599>

Wang Y, Zhao Y, Pan Z, Suomalainen S, Härkönen A, Guina M et al. **73-fs SESAM mode-locked Tm,Ho:CNGG laser at 2061 nm.** julkaisussa Clarkson WA, Shori RK, toimittajat, Solid State Lasers XXIX: Technology and Devices. SPIE. 2020. 1125929. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2548180>

Voronin V, Pismenskova M, Zelensky A, Cen Y, Nadykto A, Egiazarian K. **Action recognition using the 3D dense microblock difference.** julkaisussa Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II. SPIE. 2018. 108020O. (Proceedings of SPIE). <https://doi.org/10.1117/12.2326801>

Berger PR, Li M, Mattei RM, Niang MA, Talisa N, Tripepi M et al. **Advancements in Solution Processable Devices using Metal Oxides For Printed Internet-of-Things Objects.** julkaisussa 2019 Electron Devices Technology and Manufacturing Conference, EDTM 2019. IEEE. 2019. s. 160-162 <https://doi.org/10.1109/EDTM.2019.8731322>

Moradi E, Koski K, Björninen T, Muller R, Ledochowitsch P, Sydänheimo L et al. **Advances in implantable and wearable antennas for wireless brain-machine interface systems.** julkaisussa 2014 United States National Committee of URSI National Radio Science Meeting, USNC-URSI NRSM 2014. Institute of Electrical and Electronics Engineers Inc. 2014. 6928137 <https://doi.org/10.1109/USNC-URSI-NRSM.2014.6928137>

Qu Y, Soinen JP, Nurmi J. **A genetic algorithm for scheduling tasks onto dynamically reconfigurable hardware.** julkaisussa 2007 IEEE International Symposium on Circuits and Systems. 2007. s. 161-164  
<https://doi.org/10.1109/ISCAS.2007.378246>

Sand A, Rakkolainen I. **A hand-held immaterial volumetric display.** julkaisussa Proceedings of SPIE-IS and T Electronic Imaging - Stereoscopic Displays and Applications XXV. Vuosikerta 9011. SPIE. 2014. 90110Q  
<https://doi.org/10.1117/12.2035280>

Gumenyuk R, Filippov V, Vorotinskii A, Okhotnikov OG, Chamorovskii Y, Golant K. **All-fiber, high-power, picosecond Yb double clad tapered fiber amplifier.** julkaisussa Proceedings - 2014 International Conference Laser Optics, LO 2014. IEEE. 2014. 6886471 <https://doi.org/10.1109/LO.2014.6886471>

Kerst T, Toivonen J. **Alpha radiation induced luminescence in solar blind spectral region.** julkaisussa CLEO: Applications and Technology, CLEO\_AT 2018. OSA - The Optical Society. 2018 [https://doi.org/10.1364/CLEO\\_AT.2018.ATH4O.8](https://doi.org/10.1364/CLEO_AT.2018.ATH4O.8)

Phung HM, Kahle H, Penttinen J-P, Rajala P, Ranta S, Guina M. **A membrane external-cavity surface-emitting laser (MECSEL) with emission around 825 nm.** julkaisussa Hastie JE, toimittaja, Vertical External Cavity Surface Emitting Lasers (VECSELs) X. SPIE. 2020. 112630H. (Proceedings of SPIE - The International Society for Optical Engineering).  
<https://doi.org/10.1117/12.2545980>

Rubel AS, Lukin VV, Egiazarian K. **A method for predicting DCT-based denoising efficiency for grayscale images corrupted by AWGN and additive spatially correlated noise.** julkaisussa Proceedings of SPIE - The International Society for Optical Engineering. Vuosikerta 9399. SPIE. 2015. 93990P <https://doi.org/10.1117/12.2082533>

Beck S, Kim ST, Lim K, Tentzeris MM, Laskar J. **A multi-band WCDMA SAW-less receivers with frequency selective feedback loop.** julkaisussa 54th IEEE International Midwest Symposium on Circuits and Systems, MWSCAS 2011. 2011. 6026387 <https://doi.org/10.1109/MWSCAS.2011.6026387>

Filippov V, Noronen T, Gumenyuk R, Chamorovskii Y, Golant K, Odnoblyudov M. **Anisotropic ultra-large mode area Yb-doped tapered double clad fiber for ultrafast amplifiers.** julkaisussa Advanced Solid State Lasers 2017: Nagoya, Aichi Japan 1-5 October 2017. Vuosikerta Part F75-ASSL 2017. The Optical Society; OSA. 2017. JTU2A.51  
<https://doi.org/10.1364/ASSL.2017.JTU2A.51>

Nate K, Tentzeris MM. **A novel 3-D printed loop antenna using flexible NinjaFlex material for wearable and IoT applications.** julkaisussa 2015 IEEE 24th Conference on Electrical Performance of Electronic Packaging and Systems, EPEPS 2015. Institute of Electrical and Electronics Engineers Inc. 2015. s. 171-174. 7347155  
<https://doi.org/10.1109/EPEPS.2015.7347155>

Le T, Song B, Liu Q, Bahr RA, Moscato S, Wong CP et al. **A novel strain sensor based on 3D printing technology and 3D antenna design.** julkaisussa 2015 IEEE 65th Electronic Components and Technology Conference, ECTC 2015. Vuosikerta 2015-July. Institute of Electrical and Electronics Engineers Inc. 2015. s. 981-986. 7159714  
<https://doi.org/10.1109/ECTC.2015.7159714>

Moradi E, Koski K, Hasani M, Rahmat-Samii Y, Ukkonen L. **Antenna design considerations for far field and near field wireless body-centric systems.** julkaisussa ICCEM 2015 - 2015 IEEE International Conference on Computational Electromagnetics. The Institute of Electrical and Electronics Engineers, Inc. 2015. s. 59-60. 7052555  
<https://doi.org/10.1109/COMPEN.2015.7052555>

Battisti F, Carli M, Stramacci A, Boev A, Gotchev A. **A perceptual quality metric for high-definition stereoscopic 3D video.** julkaisussa Image Processing: Algorithms and Systems XIII. SPIE. 2015. 939916. (SPIE Conference Proceedings).  
<https://doi.org/10.1117/12.2086901>

Jaakkola H, Henno J, Mäkelä J, Thalheim B. **Artificial intelligence yesterday, today and tomorrow.** julkaisussa Skala K, Car Z, Pale P, Huljenic D, Janjic M, Koricic M, Sruk V, Ribaric S, Grbac TG, Butkovic Z, Cicin-Sain M, Skvorc D, Mauher M, Babic S, Gros S, Vrdoljak B, Tijan E, toimittajat, 2019 42nd International Convention on Information and Communication

Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings. IEEE. 2019. s. 860-867  
<https://doi.org/10.23919/MIPRO.2019.8756913>

Kariniemi H, Nurmi J, Fagerlund P, Liitola J, Alinikula J. **ATM switch for 2.488 Gbit/s CATV network on FPGA with a high-throughput buffering architecture**. julkaisussa Midwest Symposium on Circuits and Systems. Vuosikerta 2. 2002  
<https://doi.org/10.1109/MWSCAS.2002.1186814>

Järvenhaara J, Filanovsky IM, Nevalainen I, Tchamov NT. **A Two-Stage LNA Design for 28GHz Band of 5G on 45nm CMOS**. julkaisussa 2020 IEEE 63rd International Midwest Symposium on Circuits and Systems, MWSCAS 2020 - Proceedings. IEEE. 2020. s. 957-961. (Midwest Symposium on Circuits and Systems).  
<https://doi.org/10.1109/MWSCAS48704.2020.9184697>

Aho T, Tukiainen A, Elsehrawy F, Ranta S, Raappana M, Aho A et al. **Back Reflector with Diffractive Gratings for Light-Trapping in Thin-Film III-V Solar Cells**. julkaisussa 2019 European Space Power Conference (ESPC). IEEE. 2019  
<https://doi.org/10.1109/ESPC47532.2019.9049262>

Ukkonen L, Sydänheimo L, Ma S, Björninen T. **Backscattering-based wireless communication and power transfer to small biomedical implants**. julkaisussa Gray BL, Becker H, toimittajat, Microfluidics, BioMEMS, and Medical Microsystems XVIII. SPIE. 2020. 112350A. (Progress in Biomedical Optics and Imaging - Proceedings of SPIE).  
<https://doi.org/10.1117/12.2552183>

Zakeri FS, Bätz M, Jaschke T, Keinert J, Chuchvara A. **Benchmarking of several disparity estimation algorithms for light field processing**. julkaisussa Bazeille S, Verrier N, Cudel C, toimittajat, Fourteenth International Conference on Quality Control by Artificial Vision. SPIE, IEEE. 2019. 111721C. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2521747>

Piccardi A, Alberucci A, Kravets N, Buchnev O, Kaczmarek M, Assanto G. **Bistable optical propagation in nematic liquid crystals**. julkaisussa Nonlinear Photonics, NP 2014. Optical Society of America OSA. 2014

Lukin VV, Ponomarenko NN, Ieremeiev O, Egiazarian K, Astola J. **Combining full-reference image visual quality metrics by neural network**. julkaisussa Proceedings of SPIE - The International Society for Optical Engineering. Vuosikerta 9394. SPIE. 2015. 93940K <https://doi.org/10.1117/12.2085465>

Kulya MS, Katkovnik V, Egiazarian K, Petrov NV. **Complex-domain sparse imaging in terahertz pulse time-domain holography with balance detection**. julkaisussa Sadwick LP, Yang T, toimittajat, Terahertz, RF, Millimeter, and Submillimeter-Wave Technology and Applications XIII. SPIE. 2020. 1127921. (Proceedings of SPIE).  
<https://doi.org/10.1117/12.2549001>

Cho C, Yi X, Wang Y, Tentzeris MM, Leon RT. **Compressive strain measurement using RFID patch antenna sensors**. julkaisussa Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2014. Vuosikerta 9061. SPIE. 2014. 90610X <https://doi.org/10.1117/12.2045122>

Katkovnik V, Shevkunov I, Petrov NV, Egiazarian K. **Computational wavelength resolution for in-line lensless holography: Phase-coded diffraction patterns and wavefront group-sparsity**. julkaisussa Digital Optical Technologies 2017. SPIE. 2017. 1033509. (Proceedings of SPIE). <https://doi.org/10.1117/12.2269327>

Casula R, Penttinen JP, Guina M, Kemp AJ, Hastie JE. **Continuous-wave, cascaded raman laser at 1.3, 1.5, and 1.7  $\mu\text{m}$** . julkaisussa The European Conference on Lasers and Electro-Optics, CLEO\_Europe 2017. OSA - The Optical Society. 2017. (Optics InfoBase Conference Papers).

Vainio M. **Continuous-wave optical parametric oscillators for mid-infrared spectroscopy**. julkaisussa Schunemann PG, Schepler KL, toimittajat, Nonlinear Frequency Generation and Conversion: Materials and Devices XIX. SPIE. 2020. 1126419. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2548711>



Nejadsattari F, Zhang Y, Jayakody MN, Bouchard F, Larocque H, Sit A et al. **Cyclic quantum walks: Photonic realization and decoherence analysis.** julkaisussa Hemmer PR, Migdall AL, Hasan ZU, toimittajat, Advanced Optical Techniques for Quantum Information, Sensing, and Metrology. SPIE. 2020. 1129503. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2546566>

Voronin VV, Marchuk VI, Fisunov AV, Tokareva SV, Egiazarian KO. **Depth map occlusion filling and scene reconstruction using modified exemplar-based inpainting.** julkaisussa Image Processing: Algorithms and Systems XIII. SPIE. 2015. 93990S. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2076506>

Yi X, Cho C, Cook B, Wang Y, Tentzeris MM, Leon RT. **Design and simulation of a slotted patch antenna sensor for wireless strain sensing.** julkaisussa Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security 2013. Vuosikerta 8694. 2013. 86941J <https://doi.org/10.1117/12.2009233>

Chen X, He H, Khan Z, Sydänheimo L, Ukkonen L, Virkki J. **Design, Fabrication, and Wireless Evaluation of a Passive 3D-printed Moisture Sensor on a Textile Substrate.** julkaisussa 2019 Photonics and Electromagnetics Research Symposium - Spring, PIERS-Spring 2019 - Proceedings. IEEE. 2019. s. 1027-1030. 9017301. (Progress in Electromagnetics Research Symposium). <https://doi.org/10.1109/PIERS-Spring46901.2019.9017301>

Pippola J, Marttila T, Frisk L. **Development of dust test method for motor drives.** julkaisussa 2017 IMAPS Nordic Conference on Microelectronics Packaging, NordPac 2017. IEEE. 2017. s. 43-46 <https://doi.org/10.1109/NORDPAC.2017.7993161>

Fang CY, Vallini F, Amili AE, Tukiainen A, Lyytikäinen J, Guina M et al. **Development of efficient electrically pumped nanolasers based on InAlGaAs tunnel junction.** julkaisussa CLEO: Science and Innovations, CLEO\_SI 2018. OSA - The Optical Society. 2018 [https://doi.org/10.1364/CLEO\\_SI.2018.SW4Q.4](https://doi.org/10.1364/CLEO_SI.2018.SW4Q.4)

Giannoulis G, Korpiljärvi VM, Iliadis N, Mäkelä J, Viheriälä J, Apostolopoulos D et al. **Dilute nitride SOAs for high-speed data processing in variable temperature conditions.** julkaisussa Optical Fiber Communication Conference, OFC 2015. OSA - The Optical Society. 2015

Perumbilavil S, Piccardi A, Kauranen M, Assanto G. **Directional random laser by combining cavity-less lasing and spatial solitons in liquid crystals.** julkaisussa Nonlinear Photonics, NP 2018. Vuosikerta Part F108-NP 2018. OSA - The Optical Society. 2018 <https://doi.org/10.1364/NP.2018.NpW2C.4>

Cakmakyapan S, Caglayan H, Serebryannikov A, Ozbay E. **Directional selectivity through the subwavelength slit in metallic gratings.** julkaisussa 2011 Conference on Lasers and Electro-Optics: Laser Science to Photonic Applications, CLEO 2011. 2011. 5951099

Isotalo TJ, Niemi T. **Dots-on-the-fly electron beam lithography.** julkaisussa Bencher C, toimittaja, SPIE Proceedings: Alternative Lithographic Technologies VIII. Vuosikerta 9777. SPIE. 2016. 97771E. (Proceedings of SPIE). <https://doi.org/10.1117/12.2219136>

Hallman L, Ryvkin BS, Avrutin EA, Aho AT, Viheriälä J, Guina M et al. **Double-asymmetric-structure 1.5  $\mu$  m high power laser diodes.** julkaisussa Proceedings of the 2019 IEEE High Power Diode Lasers and Systems Conference, HPD 2019 - Co-located with Photonex 2019. IEEE. 2019. s. 19-20 <https://doi.org/10.1109/HPD48113.2019.8938671>

Kahle H, Phung H-M, Penttinen J-P, Rajala P, Tukiainen A, Ranta S et al. **Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region.** julkaisussa 2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE. 2019 <https://doi.org/10.23919/CLEO.2019.8749958>

Stoykova E, Nazarova D, Berberova N, Gotchev A, Ivanov B, Mateev G. **Dynamic laser speckle metrology with binarization of speckle patterns.** julkaisussa 19th International Conference and School on Quantum Electronics: Laser Physics and Applications. SPIE. 2017. 102260R. (Proceedings of SPIE). <https://doi.org/10.1117/12.2262330>

Mehmood A, Chen X, He H, Ukkonen L, Virkki J. **Eco-friendly flexible wireless platforms by 3D printing pen**. julkaisussa 2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE. 2019. s. 2422-2425. 9021887. (2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings). <https://doi.org/10.1109/PIERS-Fall48861.2019.9021887>

Mostofizadeh M, Najari M, Das D, Pecht M, Frisk L. **Effect of Epoxy Flux Underfill on Thermal Cycling Reliability of Sn-8Zn-3Bi Lead-Free Solder in a Sensor Application**. julkaisussa Proceedings - ECTC 2016: 66th Electronic Components and Technology Conference. IEEE. 2016. s. 2169-2175 <https://doi.org/10.1109/ECTC.2016.209>

Khan Z, He H, Chen X, Ukkonen L, Virkki J. **Embroidered and e-textile conductors embedded inside 3D-printed structures**. julkaisussa 2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE. 2019. s. 1675-1680. 9021681 <https://doi.org/10.1109/PIERS-Fall48861.2019.9021681>

Le T, Lin Z, Wong CP, Tentzeris MM. **Enhanced-performance wireless conformal "smart skins" utilizing inkjet-printed carbon-nanostructures**. julkaisussa Proceedings - Electronic Components and Technology Conference. Institute of Electrical and Electronics Engineers Inc. 2014. s. 769-774. 6897372 <https://doi.org/10.1109/ECTC.2014.6897372>

Farooq A, Evreinov G, Raisamo R, Takahata D. **Evaluating transparent liquid screen overlay as a haptic conductor: Method of enhancing touchscreen based user interaction by a transparent deformable liquid screen overlay**. julkaisussa 2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc. 2015. 7370186 <https://doi.org/10.1109/ICSENS.2015.7370186>

Zia N, Viheriälä J, Koskinen R, Koskinen M, Suomalainen S, Guina M. **Fabrication and characterization of broadband superluminescent diodes for 2 μm wavelength**. julkaisussa Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XX. SPIE. 2016. 97680Q. (Proceedings of SPIE). <https://doi.org/10.1117/12.2209720>

He H, Akbari M, Chen X, Nommeots-Nomm A, Chen L, Ukkonen L et al. **Fabrication and performance evaluation of 3D-printed graphene passive UHF RFID tags on cardboard**. julkaisussa 2017 Progress in Electromagnetics Research Symposium - Spring, PIERS 2017. IEEE. 2017. s. 3322-3325 <https://doi.org/10.1109/PIERS.2017.8262330>

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

Khan Z, He H, Chen X, Ukkonen L, Virkki J. **Fabrication Challenges in Embedding of Components and Embroidered Conductors into 3D-printed Textile Electronics Structures**. julkaisussa 2019 Photonics and Electromagnetics Research Symposium - Spring, PIERS-Spring 2019 - Proceedings. IEEE. 2019. s. 1372-1377. 9017223. (Progress in Electromagnetics Research Symposium). <https://doi.org/10.1109/PIERS-Spring46901.2019.9017223>

Yadav A, Chichkov NB, Gumenyuk R, Zhrebtsov E, Melkumov MA, Yashkov MV et al. **Fluorescence bandwidth of 280nm from broadband Ce<sup>3+</sup>-doped silica fiber pumped with blue laser diode**. julkaisussa 2018 International Conference Laser Optics (ICLO) . IEEE. 2018. s. 133-133. 8435861 <https://doi.org/10.1109/LO.2018.8435861>

Abdallah Z, Stefszky M, Ulvila V, Silberhorn C, Vainio M. **Frequency Comb Generation in a Continuous-Wave Pumped Second-Order Nonlinear Waveguide Resonator**. julkaisussa 2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE. 2019 <https://doi.org/10.23919/CLEO.2019.8750403>

Kantola E, Penttinen J-P, Leinonen T, Ranta S, Guina M. **Frequency-doubled VECSEL employing a Volume Bragg Grating for linewidth narrowing**. julkaisussa CLEO: Applications and Technology, CLEO\_AT 2018. OSA - The Optical Society. 2018 [https://doi.org/10.1364/CLEO\\_AT.2018.JTu2A.17](https://doi.org/10.1364/CLEO_AT.2018.JTu2A.17)

Kantola E, Leinonen T, Rantamäki A, Guina M, Sirbu A, Iakovlev V. **Frequency-doubled wafer-fused 638 nm VECSEL with an output power of 5.6 W**. julkaisussa CLEO: Applications and Technology, CLEO\_AT 2018. OSA - The Optical Society. 2018 [https://doi.org/10.1364/CLEO\\_AT.2018.JTu2A.10](https://doi.org/10.1364/CLEO_AT.2018.JTu2A.10)

Colace L, Soriano V, Maragliano C, Assanto G, Fulgoni D, Nash L et al. **Germanium-on-glass solar cells**. julkaisussa 8th IEEE International Conference on Group IV Photonics, GFP 2011. 2011. s. 255-257. 6053781 <https://doi.org/10.1109/GROUP4.2011.6053781>

Ledentsov NN, Shchukin VA, Lyytikäinen J, Okhotnikov O, Cherkashin NA, Shernyakov YM et al. **Green (In,Ga,Al)P-GaP light-emitting diodes grown on high-index GaAs surfaces**. julkaisussa Proceedings of SPIE: Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XIX. Vuosikerta 9383. SPIE. 2015. 93830E <https://doi.org/10.1117/12.2083953>

Leinonen T, Penttinen JP, Korpjärvi VM, Kantola E, Guina M. **>8W GaInNAs VECSEL emitting at 615 nm**. julkaisussa Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) V. Vuosikerta 9349. SPIE. 2015. 934909 <https://doi.org/10.1117/12.2079162>

Mateos X, Loiko P, Lamrini S, Scholle K, Fuhrberg P, Suomalainen S et al. **Highly-efficient Ho:KY(WO4)2 thin-disk lasers at 2.06 μm**. julkaisussa Pacific-Rim Laser Damage 2018: Optical Materials for High-Power Lasers. SPIE, IEEE. 2018. 107130J. (Proceedings of SPIE). <https://doi.org/10.1117/12.2316822>

Zia N, Viheriälä J, Koivusalo E, Aho A, Suomalainen S, Guina M. **High performance GaSb superluminescent diodes for tunable light source at 2 μm and 2.55 μm**. julkaisussa CLEO: Applications and Technology, CLEO\_AT 2018. OSA - The Optical Society. 2018 [https://doi.org/10.1364/CLEO\\_AT.2018.JTu2A.28](https://doi.org/10.1364/CLEO_AT.2018.JTu2A.28)

Viheriälä J, Aho AT, Mäkelä J, Salmi J, Virtanen H, Leinonen T et al. **High-power 1550 nm tapered DBR lasers fabricated using soft UV-nanoimprint lithography**. julkaisussa High-Power Diode Laser Technology and Applications XIV. SPIE. 2016. 97330Q. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2207423>

Saad-Bin-Alam M, Reshef O, Huttunen MJ, Carlow G, Sullivan B, Menard JM et al. **High-Q resonance train in a plasmonic metasurface**. julkaisussa 2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE. 2019 <https://doi.org/10.23919/CLEO.2019.8750206>

Moirangthem M, Stumpel JE, Alp B, Teunissen P, Bastiaansen CWM, Schenning APHJ. **Hot pen and laser writable photonic polymer films**. julkaisussa Emerging Liquid Crystal Technologies XI. Vuosikerta 9769. SPIE. 2016. 97690Y <https://doi.org/10.1117/12.2209065>

Su W, Cooper JR, Cook BS, Tentzeris MM, Mariotti C, Roselli L. **Inkjet-printed dual microfluidic-based sensor integrated system**. julkaisussa 2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc. 2015. 7370300 <https://doi.org/10.1109/ICSENS.2015.7370300>

Le T, Lakafosis V, Lin Z, Wong CP, Tentzeris MM. **Inkjet-printed graphene-based wireless gas sensor modules**. julkaisussa 2012 IEEE 62nd Electronic Components and Technology Conference, ECTC 2012. 2012. s. 1003-1008. 6248958 <https://doi.org/10.1109/ECTC.2012.6248958>

Laurila M-M, Soltani A, Mäntysalo M. **Inkjet printed single layer high-density circuitry for a MEMS device**. julkaisussa 2015 IEEE 65th Electronic Components and Technology Conference (ECTC). IEEE. 2015. s. 968-972 <https://doi.org/10.1109/ECTC.2015.7159712>

Karioja P, Alajoki T, Cherchi M, Ollila J, Harjanne M, Heinilehto N et al. **Integrated multi-wavelength mid-IR light source for gas sensing**. julkaisussa Next-Generation Spectroscopic Technologies XI. SPIE, IEEE. 2018. 106570A. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2305712>

Aalto T, Harjanne M, Offrein BJ, Caër C, Neumeier C, Malacarne A et al. **Integrating III-V, Si, and polymer waveguides for optical interconnects: RAPIDO**. julkaisussa Optical Interconnects XVI. SPIE. 2016. 97530D. (Proceedings of SPIE). <https://doi.org/10.1117/12.2214786>

Linna P, Narra N, Grönman J. **Intelligent data service for farmers**. julkaisussa Skala K, Car Z, Pale P, Huljenic D, Janjic M, Korovic M, Struk V, Ribaric S, Grbac TG, Butkovic Z, Cicin-Sain M, Skvorc D, Mauher M, Babic S, Gros S, Vrdoljak B, Tijan E, toimittajat, 2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings. IEEE. 2019. s. 1072-1075 <https://doi.org/10.23919/MIPRO.2019.8756688>

Leroy HA, Vermandel M, Tétard MC, Lejeune JP, Mordon S, Reyns N. **Interstitial photodynamic therapy and glioblastoma: Light fractionation study on a preclinical model: Preliminary results**. julkaisussa Optical Techniques in Neurosurgery, Neurophotonics, and Optogenetics II. Vuosikerta 9305. SPIE. 2015. 93050D <https://doi.org/10.1117/12.2079347>

Huttunen MJ, Hristu R, Dumitru A, Costache M, Stanciu SG. **Investigating human skin using deep learning enhanced multiphoton microscopy**. julkaisussa 21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE. 2019. (International Conference on Transparent Optical Networks). <https://doi.org/10.1109/ICTON.2019.8840265>

Ozbay E, Bulu I, Caglayan H. **Labyrinth based left-handed metamaterials and sub-wavelength focusing of electromagnetic waves**. julkaisussa Photonic Crystal Materials and Devices IV. Vuosikerta 6128. 2006. 612813. (Proceedings of SPIE). <https://doi.org/10.1117/12.649548>

Wirdatmadja S, Johari P, Balasubramaniam S, Bae Y, Stachowiak MK, Jornet JM. **Light propagation analysis in nervous tissue for wireless optogenetic nanonetworks**. julkaisussa Optogenetics and Optical Manipulation 2018. SPIE. 2018. 104820R <https://doi.org/10.1117/12.2288786>

Baron A, Faggiani R, Zang X, Lalouat L, Schulz SA, Vynck K et al. **Localization of light at vanishingly small disorder-levels with heavy photons**. julkaisussa 2015 Conference on Lasers and Electro-Optics, CLEO 2015. Vuosikerta 2015-August. Optical Society of America OSA. 2015. 7183319 [https://doi.org/10.1364/CLEO\\_QELS.2015.FW1C.4](https://doi.org/10.1364/CLEO_QELS.2015.FW1C.4)

Haußmann L, Neumeier S, Kolb M, Ast J, Mohanty G, Michler J et al. **Local Mechanical Properties at the Dendrite Scale of Ni-Based Superalloys Studied by Advanced High Temperature Indentation Creep and Micropillar Compression Tests**. julkaisussa Tin S, Hardy M, Clews J, Cormier J, Feng Q, Marcin J, O'Brien C, Suzuki A, toimittajat, Superalloys 2020: Proceedings of the 14th International Symposium on Superalloys. Springer. 2020. s. 273-281. (The Minerals, Metals and Materials Series). [https://doi.org/10.1007/978-3-030-51834-9\\_26](https://doi.org/10.1007/978-3-030-51834-9_26)

Frosio I, Egiazarian K, Pulli K. **Machine learning for adaptive bilateral filtering**. julkaisussa Image Processing: Algorithms and Systems XIII. Vuosikerta 9399. SPIE. 2015. 939908. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2077733>

Chen X, He H, Yang Y, Gou M, Sydanheimo L, Ukkonen L et al. **Maintenance-free moisture sensor on dishcloth substrate**. julkaisussa 2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE. 2019. s. 2418-2421. 9021487 <https://doi.org/10.1109/PIERS-Fall48861.2019.9021487>

Ye C, Koponen J, Aallos V, Kokki T, Petit L, Kimmelma O. **Measuring bend losses in large-mode-area fibers**. julkaisussa Fiber Lasers XII: Technology, Systems, and Applications. Vuosikerta 9344. SPIE. 2015. 934425 <https://doi.org/10.1117/12.2076813>

Kahle H, Penttinen JP, Phung HM, Rajala P, Tukiainen A, Ranta S et al. **MECSELs with direct emission in the 760 nm to 810 nm spectral range: A single- and double-side pumping comparison and high-power continuous-wave operation**. julkaisussa Keller U, toimittaja, Vertical External Cavity Surface Emitting Lasers (VECSELs) IX. SPIE, IEEE. 2019. 109010D. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2512111>

Ye C, Koponen J, Aallos V, Petit L, Kimmelma O, Kokki T. **Mode coupling in few-mode large-mode-area fibers**. julkaisussa Fiber Lasers XI: Technology, Systems, and Applications. Vuosikerta 8961. SPIE. 2014. 89612W <https://doi.org/10.1117/12.2038575>

Kantola JH, Vaara J, Rantala TT, Jokisaari J. **Molecular dynamics simulations for Xe absorbed in zeolites**. julkaisussa Kaxiras E, Joannopoulos J, Vashishta P, Kalia RK, toimittajat, Materials Research Society Symposium - Proceedings. Vuosikerta 408. MATERIALS RESEARCH SOCIETY. 1996. s. 599-604 <https://doi.org/10.1557/PROC-408-599>

Korpijärvi V-M, Kantola EL, Leinonen T, Guina M. **Monolithic GaInNAsSb/GaAs VECSEL emitting at 1550 nm.** julkaisussa SPIE conference proceedings. Vuosikerta 9349. SPIE. 2015. 93490D <https://doi.org/10.1117/12.2077517>

Sapaev UK, Yusupov DB, Assanto G. **Multicolor nonlinear pulse compression by consecutive optical parametric amplification in quasi-phase matched structures.** julkaisussa ICONO 2010: International Conference on Coherent and Nonlinear Optics. Vuosikerta 7993. 2011. 79930Q <https://doi.org/10.1117/12.882887>

Katkovnik V, Shevkunov I, Petrov NV, Eguiazarian K. **Multiwavelength surface contouring from phase-coded diffraction patterns.** julkaisussa Unconventional Optical Imaging 2018. Strasbourg, France. SPIE. 2018. 106771B. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2306127>

Blanc W, Vermillac M, Petit L, Lukowiak A, Lu Z, Mady F et al. **Nanoparticles in optical waveguides: A toolbox to promote lasers, amplifiers and sensors.** julkaisussa 21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE. 2019. (International Conference on Transparent Optical Networks). <https://doi.org/10.1109/ICTON.2019.8840208>

Isoaho R, Aho A, Tukiainen A, Aho T, Raappana M, Salminen T et al. **Narrow Bandgap Dilute Nitride Materials for 6-junction Space Solar Cells.** julkaisussa 2019 European Space Power Conference (ESPC). IEEE. 2019 <https://doi.org/10.1109/ESPC47532.2019.9049263>

Gumenyuk R, Rissanen J, Korobko DA, Zolotovskiy IO, Melkumov M, Khopin VF. **New multisoliton complex in Bi-doped fiber laser operated at 1450 nm.** julkaisussa European Quantum Electronics Conference 2017. Vuosikerta Part F81-EQEC 2017. The Optical Society; OSA. 2017. EF\_5\_4

Colace L, Scacchi A, Assanto G. **Noise characterization of Ge/Si photodetectors.** julkaisussa 8th IEEE International Conference on Group IV Photonics, GFP 2011. 2011. s. 290-292. 6053793 <https://doi.org/10.1109/GROUP4.2011.6053793>

Vimieiro RB, Borges LR, Caron RF, Barufaldi B, Bakic PR, Maidment ADA et al. **Noise measurements from reconstructed digital breast tomosynthesis.** julkaisussa Schmidt TG, Chen G-H, Bosmans H, toimittajat, Medical Imaging 2019: Physics of Medical Imaging. SPIE, IEEE. 2019. 109480C. (Progress in Biomedical Optics and Imaging - Proceedings of SPIE). <https://doi.org/10.1117/12.2512977>

Voronin VV, Frantc VA, Marchuk VI, Sherstobitov AI, Egiazarian K. **No-reference visual quality assessment for image inpainting.** julkaisussa Image Processing: Algorithms and Systems XIII. SPIE. 2015. 93990U. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2076507>

Le T, Lin Z, Wong CP, Tentzeris MM. **Novel enhancement techniques for ultra-high-performance conformal wireless sensors and 'smart skins' utilizing inkjet-printed graphene.** julkaisussa 2013 IEEE 63rd Electronic Components and Technology Conference, ECTC 2013. 2013. s. 1640-1643. 6575792 <https://doi.org/10.1109/ECTC.2013.6575792>

Petit L, Nguyen H, Hongisto M, Salminen T, Hakkarainen T, Lopez-Iscoa P et al. **Novel Er<sup>3+</sup> doped phosphate glass-ceramics for photonics.** julkaisussa ICTON 2017 - 19th International Conference on Transparent Optical Networks. IEEE COMPUTER SOCIETY PRESS. 2017 <https://doi.org/10.1109/ICTON.2017.8024877>

Daerhan D, Jonah O, Hu H, Georgakopoulos SV, Tentzeris MM. **Novel highly-efficient and misalignment insensitive wireless power transfer systems utilizing Strongly Coupled Magnetic Resonance principles.** julkaisussa Proceedings - Electronic Components and Technology Conference. Institute of Electrical and Electronics Engineers Inc. 2014. s. 759-762. 6897370 <https://doi.org/10.1109/ECTC.2014.6897370>

Radevici I, Sadi T, Tripurari T, Tiira J, Ranta S, Tukiainen A et al. **Observation of local electroluminescent cooling and identifying the remaining challenges.** julkaisussa Seletskiy DV, Epstein RI, Sheik-Bahae M, toimittajat, Photonic Heat Engines: Science and Applications. SPIE, IEEE. 2019. 109360A. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2505814>

Stumpel JE, Broer DJ, Bastiaansen CWM, Schenning APHJ. **Optical and topographic changes in water-responsive patterned cholesteric liquid crystalline polymer coatings.** julkaisussa Proceedings of SPIE: Organic Photonics VI. Vuosikerta 9137. SPIE. 2014. 91370U. (Proceedings of SPIE: the International Society for Optical Engineering). <https://doi.org/10.1117/12.2052678>

Fotiadi AA, Korobko DA, Okhotnikov OG, Zolotovskii IO. **Optical fiber amplifier with spectral compression elements for high-power laser pulse generation.** julkaisussa Nonlinear Optics and its Applications IV. Vuosikerta 9894. SPIE. 2016. 989411. (Proceedings of SPIE). <https://doi.org/10.1117/12.2223637>

Sadiek I, Mikkonen T, Vainio M, Toivonen J, Foltynowicz A. **Optical Frequency Comb Photoacoustic Spectroscopy.** julkaisussa 2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE. 2019 <https://doi.org/10.23919/CLEO.2019.8749688>

Mehmood A, Vianto V, He H, Chen X, Buruk OO, Ukkonen L et al. **Passive UHF RFID-based user interface on a wooden surface.** julkaisussa 2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE. 2019. s. 1760-1763. 9021441 <https://doi.org/10.1109/PIERS-Fall48861.2019.9021441>

Raappana M, Aho A, Aho T, Isoaho R, Anttola E, Kajas N et al. **Performance of Solar Cell Grids based on Ag, Au, and Al for Cost-Effective Manufacturing.** julkaisussa 2019 European Space Power Conference (ESPC). IEEE. 2019 <https://doi.org/10.1109/ESPC.2019.8932002>

Aryal U, Ojha N, Trautvetter T, Lastusaari M, Ueda J, Mueller R et al. **Persistent luminescent glasses prepared using the direct doping method.** julkaisussa 21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE. 2019. (International Conference on Transparent Optical Networks). <https://doi.org/10.1109/ICTON.2019.8840287>

Sahin E, Akpınar U, Gotchev A. **Phase-coded computational imaging for depth of field extension.** julkaisussa Proceedings - Digital Holography and Three-Dimensional Imaging 2019. Optical Society of America. 2019

Filippov V, Vorotynskii A, Noronen T, Gumenyuk R, Chamorovskii Y, Golant K. **Picosecond MOPA with ytterbium doped tapered double clad fiber.** julkaisussa Fiber Lasers XIV: Technology and Systems. Vuosikerta 10083. SPIE. 2017. 100831H. (Proceedings of SPIE; 10083). <https://doi.org/10.1117/12.2252006>

Borges LR, Bakic PR, Foi A, Maidment ADA, Vieira MAC. **Pipeline for effective denoising of digital mammography and digital breast tomosynthesis.** julkaisussa Medical Imaging 2017: Physics of Medical Imaging. SPIE. 2017. 1013206. (Progress in biomedical optics and imaging). <https://doi.org/10.1117/12.2255058>

Heikkinen J, Gumenyuk R, Rantamäki A, Lyytikäinen J, Leinonen T, Zolotovskii I et al. **Power and wavelength scaling using semiconductor disk laser - bismuth fiber MOPA systems.** julkaisussa Guina M, toimittaja, Vertical External Cavity Surface Emitting Lasers (VECSELs) V. BELLINGHAM: SPIE. 2015. 93490E. (Proceedings of SPIE). <https://doi.org/10.1117/12.2076805>

Suominen O, Gotchev A. **Preserving natural scene lighting by strobe-lit video.** julkaisussa Image Processing: Algorithms and Systems XIII. SPIE. 2015. 939919. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2185013>

Del Cerro PR, Saarinen M, Massera J, Norrbo I, Lastusaari M, Petit L. **Processing and Characterization of Bioactive Borosilicate Glasses and Scaffolds with Persistent Luminescence.** julkaisussa 2018 20th International Conference on Transparent Optical Networks, ICTON 2018. Vuosikerta 2018-July. IEEE COMPUTER SOCIETY PRESS. 2018. 8473916. (Conference proceedings : International Conference on Transparent Optical Networks). <https://doi.org/10.1109/ICTON.2018.8473916>

Mikkonen R, Lahokallio S, Frisk L, Mäntysalo M. **Processing of printed silver patterns on an ETFE substrate.** julkaisussa Proceedings - 2018 IMAPS Nordic Conference on Microelectronics Packaging, NORDPAC 2018. IEEE. 2018. s. 1-7. 8423860 <https://doi.org/10.23919/NORDPAC.2018.8423860>

Vehviläinen J, Nurmi J. **Processor core for 32 kbit/s G.726 ADPCM codecs**. julkaisussa 1995 IEEE International Symposium on Circuits and Systems. ISCAS '95. Vuosikerta 3. IEEE. 1995. s. 1932-1935  
<https://doi.org/10.1109/ISCAS.1995.523797>

Kulya MS, Sokolenko B, Gorodetsky A, Petrov NV. **Propagation dynamics of ultrabroadband terahertz beams with orbital angular momentum for wireless data transfer**. julkaisussa Dingel BB, Tsukamoto K, Mikroulis S, toimittajat, Broadband Access Communication Technologies XIV. SPIE. 2020. 113070J. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2547695>

Kantola E, Leinonen T, Ranta S, Tavast M, Guina M. **Pulsed high-power yellow-orange VECSEL**. julkaisussa Photonics Europe 2014, Semiconductor Lasers and Laser Dynamics VI, April 14-17, 2014, Brussels, Belgium. Proceedings of SPIE. Vuosikerta 9134. SPIE. 2014. 91340Z. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2054716>

Guina M, Isoaho R, Viheriälä J, Aho A, Aho A, Tukiainen A. **Quantum-well Laser Emitting at 1.2  $\mu\text{m}$ -1.3  $\mu\text{m}$  Window Monolithically Integrated on Ge Substrate**. julkaisussa 43rd European Conference on Optical Communication, ECOC 2017. IEEE. 2018. s. 1-3 <https://doi.org/10.1109/ECOC.2017.8345837>

Smirnov S, Gotchev A. **Real-time depth image-based rendering with layered dis-occlusion compensation and aliasing-free composition**. julkaisussa Proceedings of SPIE - The International Society for Optical Engineering. SPIE. 2015. 93990T. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2086895>

Ryczkowski P, Närhi M, Billet C, Merolla JM, Dudley JM, Genty G. **Real-time measurements of nonlinear instabilities in optical fibers**. julkaisussa CLEO: Applications and Technology, CLEO\_AT 2018. OSA - The Optical Society. 2018  
[https://doi.org/10.1364/CLEO\\_AT.2018.AF2Q.1](https://doi.org/10.1364/CLEO_AT.2018.AF2Q.1)

Dudley JM, Ryczkowski P, Närhi M, Billet C, Merolla JM, Lapre C et al. **Real-time measurements of ultrafast instabilities in nonlinear fiber optics: Recent advances**. julkaisussa 21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE. 2019. (International Conference on Transparent Optical Networks).  
<https://doi.org/10.1109/ICTON.2019.8840476>

Frisk L, Lahokallio S, Kiilunen J. **Reliability of ACA interconnections on microvia HDI PCBs in thermal cycling conditions**. julkaisussa Kutilainen J, toimittaja, IMAPS Nordic Annual Conference 2016 Proceedings. IMAPS-International Microelectronics and Packaging Society. 2016

Dejean G, Lakafosis V, Traille A, Lee H, Gebara E, Tentzeris M et al. **RFDNA: A wireless authentication system on flexible substrates**. julkaisussa 2011 IEEE 61st Electronic Components and Technology Conference, ECTC 2011. 2011. s. 1332-1337. 5898684 <https://doi.org/10.1109/ECTC.2011.5898684>

Suikkola J, Kankkunen T, Iso-Ketola P, Vanhala J, Mäntysalo M. **Screen-Printed Stretchable Interconnects**. julkaisussa Proceedings - ECTC 2016: 66th Electronic Components and Technology Conference. IEEE. 2016. s. 1650-1655  
<https://doi.org/10.1109/ECTC.2016.132>

Tuominen S, Mäntysalo M. **Screen printed temporary tattoos for skin-mounted electronics**. julkaisussa IEEE 69th Electronic Components and Technology Conference, ECTC 2019. IEEE. 2019. s. 1252-1257  
<https://doi.org/10.1109/ECTC.2019.00194>

Wang Y, Xie G, Xu X, Di J, Qin Z, Suomalainen S et al. **SESAM mode-locked Tm: CALGO laser at 2  $\mu\text{m}$** . julkaisussa Advanced Solid State Lasers, ASSL 2015. Optical Society of America OSA. 2015. AW1A.2  
<https://doi.org/10.1364/ASSL.2015.AW1A.2>

Saleh A, Ryczkowski P, Genty G, Toivonen J. **Short-range supercontinuum based lidar for combustion diagnostics**. julkaisussa Kimata M, Valenta CR, toimittajat, SPIE Future Sensing Technologies. SPIE, IEEE. 2019. 111970Y. (Proceedings of SPIE). <https://doi.org/10.1117/12.2542720>

Dumitrescu M, Uusitalo T, Virtanen H, Laakso A, Bardella P, Montrosset I. **Simulation of photon-photon resonance enhanced direct modulation bandwidth of DFB lasers.** julkaisussa 16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE. 2016. s. 147-148 <https://doi.org/10.1109/NUSOD.2016.7547075>

Virtanen H, Uusitalo T, Dumitrescu M. **Simulation studies of DFB laser longitudinal structures for narrow linewidth emission.** julkaisussa 16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE. 2016. s. 153-154 <https://doi.org/10.1109/NUSOD.2016.7547078>

Frantc VA, Makov SV, Voronin VV, Marchuk VI, Semenishchev EA, Egiazarian KO et al. **Simultaneous binary hash and features learning for image retrieval.** julkaisussa Mobile Multimedia/Image Processing, Security, and Applications 2016. SPIE. 2016. 986902. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2223605>

Kocsis P, Shevkunov I, Katkovnik V, Egiazarian K. **Single exposure lensless subpixel phase imaging.** julkaisussa Kress BC, Schelkens P, toimittajat, Digital Optical Technologies 2019. SPIE, IEEE. 2019. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2525679>

Slablab A, Le Xuan L, Zhou C, Chauvat D, De Wilde Y, Perruchas S et al. **Single KTiOPO4 nanocrystals for nonlinear probing of local optical fields and interaction with a metallic nanostructure.** julkaisussa CLEO/Europe - EQEC 2009 - European Conference on Lasers and Electro-Optics and the European Quantum Electronics Conference. 2009. 5192089 <https://doi.org/10.1109/CLEOE-EQEC.2009.5192089>

Hakkarainen T, Tommila J, Schramm A, Simonen J, Niemi T, Strelow C et al. **Site-controlled InAs Quantum Dots for Plasmonics.** julkaisussa Conference on Lasers and Electro-Optics 2016: QELS\_Fundamental Science. OSA - The Optical Society. 2016. FM1B.3 [https://doi.org/10.1364/CLEO\\_QELS.2016.FM1B.3](https://doi.org/10.1364/CLEO_QELS.2016.FM1B.3)

Zang X, Lalanne P. **Strong localization in unintentional disordered photonics crystal waveguides.** julkaisussa 2013 7th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics, METAMATERIALS 2013. IEEE COMPUTER SOCIETY PRESS. 2013. s. 322-324 <https://doi.org/10.1109/MetaMaterials.2013.6809040>

Mathew S, Koskinen K, Czaplicki R, Pradeep C, Kailasnath M, GVallabhan CP et al. **Study of second-harmonic generation from CdS nanostructured thin film.** julkaisussa 12th International Conference on Fiber Optics and Photonics. Optical Society of America (OSA). 2014. M4A.46 <https://doi.org/10.1364/PHOTONICS.2014.M4A.46>

Zhao Y, Wang Y, Zhang X, Mateos X, Pan Z, Loiko P et al. **Sub-100 fs pulse generation from a Tm,Ho: CALYO laser mode-locked by a GaSb-based SESAM at ~2043 nm.** julkaisussa CLEO: Science and Innovations, CLEO\_SI 2018. OSA - The Optical Society. 2018 [https://doi.org/10.1364/CLEO\\_SI.2018.SF2N.1](https://doi.org/10.1364/CLEO_SI.2018.SF2N.1)

Wang Y, Jing W, Loiko P, Zhao Y, Huang H, Suomalainen S et al. **Sub-10 optical-cycle mode-locked Tm:(Lu<sub>2</sub>/3Sc<sub>1</sub>/3)2O<sub>3</sub> mixed ceramic laser at 2057 nm.** julkaisussa Advanced Solid State Lasers 2017: Nagoya, Aichi Japan 1–5 October 2017. The Optical Society; OSA. 2017. ATu6A.4 <https://doi.org/10.1364/ASSL.2017.ATu6A.4>

Tomberg T, Vainio M, Hieta T, Halonen L. **Sub-parts-per-trillion sensitivity in trace gas detection by cantilever-enhanced photo-acoustic spectroscopy.** julkaisussa CLEO: Applications and Technology, CLEO\_AT 2018. OSA - The Optical Society. 2018 [https://doi.org/10.1364/CLEO\\_AT.2018.ATH10.8](https://doi.org/10.1364/CLEO_AT.2018.ATH10.8)

Xu L, Saerens G, Timofeeva M, Miroshnichenko AE, Camacho-Morales R, Volkovskaya I et al. **Switchable unidirectional second-harmonic emission through GaAs nanoantennas.** julkaisussa Mitchell A, Rubinsztein-Dunlop H, toimittajat, AOS Australian Conference on Optical Fibre Technology, ACOFT 2019 and Australian Conference on Optics, Lasers, and Spectroscopy, ACOLS 2019. SPIE. 2019. 112000J. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2539887>

Qu Y, Tiensyrjä K, Soininen JP, Nurmi J. **System-level design for partially reconfigurable hardware.** julkaisussa 2007 IEEE International Symposium on Circuits and Systems . 2007. s. 2738-2741 <https://doi.org/10.1109/ISCAS.2007.378619>



Sautter J, Xu L, Miroshnichenko A, Lysevych M, Volkovskaya I, Smirnova D et al. **Tailoring directional scattering of second-harmonic generation from (111)-GaAs nanoantennas**. julkaisussa Mitchell A, Rubinsztein-Dunlop H, toimittajat, AOS Australian Conference on Optical Fibre Technology, ACOFT 2019 and Australian Conference on Optics, Lasers, and Spectroscopy, ACOLS 2019. SPIE. 2019. 112000H. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2539086>

Henno J, Jaakkola H, Mäkelä J. **Teaching for virtual work**. julkaisussa Skala K, Car Z, Pale P, Huljenic D, Janjic M, Koricic M, Sruc V, Ribaric S, Grbac TG, Butkovic Z, Cicin-Sain M, Skvorc D, Mauher M, Babic S, Gros S, Vrdoljak B, Tijan E, toimittajat, 2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings. IEEE. 2019. s. 818-826 <https://doi.org/10.23919/MIPRO.2019.8756778>

Selim B, Sofotasios PC, Muhaidat S, Karagiannidis GK. **The effects of I/Q imbalance on wireless communications: A survey**. julkaisussa 2016 IEEE 59th International Midwest Symposium on Circuits and Systems (MWSCAS). IEEE. 2017 <https://doi.org/10.1109/MWSCAS.2016.7870102>

Caglayan H, Ozbay E. **The magical world of metamaterials**. julkaisussa Photonic Materials, Devices, and Applications III. Vuosikerta 7366. 2009. 73660X. (Proceedings of SPIE). <https://doi.org/10.1117/12.821407>

Yi X, Vyas R, Cho C, Fang CH, Cooper J, Wang Y et al. **Thermal effects on a passive wireless antenna sensor for strain and crack sensing**. julkaisussa Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2012. Vuosikerta 8345. 2012. 83450F <https://doi.org/10.1117/12.914833>

Yi X, Wu T, Lantz G, Wang Y, Leon RT, Tentzeris MM. **Thickness variation study of RFID-based folded patch antennas for strain sensing**. julkaisussa Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2011. Vuosikerta 7981. 2011. 79811H <https://doi.org/10.1117/12.879868>

Huttunen MJ, Stolt T, Reshef O, Kiviniemi A, Czaplicki R, Zang X et al. **Towards efficient nonlinear plasmonic metasurfaces**. julkaisussa 21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE. 2019. (International Conference on Transparent Optical Networks). <https://doi.org/10.1109/ICTON.2019.8840277>

Uusitalo T, Virtanen H, Dumitrescu M. **Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers**. julkaisussa 16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE. 2016. s. 79-80. 7547038 <https://doi.org/10.1109/NUSOD.2016.7547038>

Habib M, Ozbay E, Caglayan H. **Tunable Reflection Type Plasmon Induced Transparency with Graphene**. julkaisussa 2018 12th International Congress on Artificial Materials for Novel Wave Phenomena, METAMATERIALS 2018. IEEE. 2018. s. 170-172 <https://doi.org/10.1109/MetaMaterials.2018.8534142>

Chen X, He H, Chen L, Raunonen P, Ukkonen L, Virkki J. **Two-part stretchable passive UHF RFID textile tags**. julkaisussa 2017 Progress in Electromagnetics Research Symposium - Spring, PIERS 2017. Electromagnetics Academy. 2017. s. 3318-3321 <https://doi.org/10.1109/PIERS.2017.8262329>

Noronen T, Gumenyuk R, Chamorovskii Y, Golant K, Odnoblyudov M, Filippov V. **Ultrafast picosecond MOPA with Yb-doped tapered double clad fiber**. julkaisussa The European Conference on Lasers and Electro-Optics 2017: Munich Germany 25–29 June 2017. Vuosikerta Part F82-CLEO\_Europe 2017. The Optical Society; OSA. 2017. CJ\_9\_4

Noronen T, Fedotov A, Rissanen J, Gumenyuk R, Butov O, Chamorovskii Y et al. **Ultra-large mode area single frequency anisotropic MOPA with double clad Yb-doped tapered fiber**. julkaisussa Fiber Lasers XV: Technology and Systems. SPIE, IEEE. 2018. 105121T. (Proceedings of SPIE). <https://doi.org/10.1117/12.2288942>

Peccianti M, Alberucci A, Assanto G, De Luca A, Coschignano G, Umeton C. **Walking anisotropic spatial solitons and their steering in nematic liquid crystals**. julkaisussa Nonlinear Guided Waves and Their Applications, NLGW 2005. Optical Society of America OSA. 2005 <https://doi.org/10.1364/NLGW.2005.FA1>

Achimova E, Abaskin V, Cazac V, Meshalkin A, Pedrini G, Claus D et al. **Surface topography studied by off-axis digital holography**. julkaisussa Novel Optical Materials and Applications, NOMA 2018. Vuosikerta Part F107-NOMA 2018. OSA - The Optical Society. 2018 <https://doi.org/10.1364/NOMA.2018.NoW1J.7>

Viherialä J, Aho A, Virtanen H, Dumitrescu M, Guina M. **1180 nm GaInNAs quantum well based high power DBR laser diodes**. 2017. Julkaisun esittämisaikka: SPIE Photonics West 2017, San Francisco, Yhdysvallat.

Blokhin SA, Bobrov MA, Blokhin AA, Kuzmenkov AG, Vasil'Ev AP, Maleev NA et al. **1.3  $\mu\text{m}$  InAs quantum dot semiconductor disk laser**. 2016. Julkaisun esittämisaikka: 2016 International Conference Laser Optics, LO 2016, St. Petersburg, Venäjä. <https://doi.org/10.1109/LO.2016.7549727>

Korobko DA, Okhotnikov OG, Sysoliatin AA, Zolotovskii IO. **Advanced scheme of amplifier similariton laser**. 2016. Julkaisun esittämisaikka: 2016 International Conference Laser Optics, LO 2016, St. Petersburg, Venäjä. <https://doi.org/10.1109/LO.2016.7549889>

Ahmed U, Harju J, Poutala J, Ruuskanen P, Rasilo P, Kouhia R. **Finite element method incorporating coupled magneto-elastic model for magneto-mechanical energy harvester**. 2017. Julkaisun esittämisaikka: Compumag 2017, Daejeon, Pohjois-Korea.

Kaneda Y, Hart ML, Warner SH, Penttinen JP, Guina M. **Narrow-linewidth operation of folded VECSEL cavity with twist-mode configuration**. 2018. Julkaisun esittämisaikka: Advanced Solid State Lasers, ASSL 2018, Boston, Yhdysvallat. <https://doi.org/10.1364/ASSL.2018.ATH2A.7>

Ustimchik VE, Vyatkin MY, Popov SM, Chamorovskii YK, Filippov VN, Nikitov SA. **State of polarization in anisotropic tapered fiber with extremely large core diameter**. 2016. Julkaisun esittämisaikka: 2016 International Conference Laser Optics, LO 2016, St. Petersburg, Venäjä. <https://doi.org/10.1109/LO.2016.7549956>

Busacca AC, Stivala S, Curcio L, Assanto G. **Parametric conversion in micrometer and submicrometer structured ferroelectric crystals by surface poling**. International Journal of Optics. 2012;2012. 606892. <https://doi.org/10.1155/2012/606892>

Stumpel JE, Broer DJ, Schenning APHJ. **Stimuli-responsive photonic polymer coatings**. Chemical Communications. 2014 joulu 28;50(100):15839-15848. <https://doi.org/10.1039/c4cc05072j>