

- Assanto, Gaetano and Noel F. Smyth. "Nonlinear guided waves: Preface". *Journal of Nonlinear Optical Physics and Materials*. 2016. 25(4). <https://doi.org/10.1142/S0218863516500417>
- Bhalerao, Sagar R. et al. "0.6V threshold voltage thin film transistors with solution processable indium oxide ( $\text{In}_2\text{O}_3$ ) Channel and Anodized High- $\kappa$   $\text{Al}_2\text{O}_3$  Dielectric". *IEEE Electron Device Letters*. 2019, 40(7). 1112-1115. <https://doi.org/10.1109/LED.2019.2918492>
- Murtomaeki, Jaakko Samuel 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, Jaakko Samuel et al. "3-D mechanical modeling of 20 T HTS clover leaf end coils - Good practices and lessons learned". *IEEE Transactions on Applied Superconductivity*. 2019. 29(5). <https://doi.org/10.1109/TASC.2019.2899317>
- Escamez, Guillaume et al. "3-D Numerical Modeling of AC Losses in Multifilamentary MgB<sub>2</sub> Wires". *IEEE Transactions on Applied Superconductivity*. 2016. 26(3). <https://doi.org/10.1109/TASC.2016.2533024>
- Pyattaev, Alexander et al. "3GPP LTE-assisted Wi-Fi-direct: Trial implementation of live D2D technology". *ETRI Journal*. 2015, 37(5). 877-887. <https://doi.org/10.4218/etrij.15.2415.0003>
- Beck, Sungho et al. "A 0.5-6MHz Active-RC LPF with Fine Gain Steps Using Binary Interpolated Resistor Banks". *IEICE TRANSACTIONS ON ELECTRONICS*. 2011, E94-C(8). 1328-1331. <https://doi.org/10.1587/transele.E94.C.1328>
- Petelenz, Piotr and Waldemar Kulig. "Absorption profile and femtosecond intraband relaxation of the intense upper Davydov component in oligothiophenes". *Physica Status Solidi B: Basic Solid State Physics*. 2011, 248(2). 412-415. <https://doi.org/10.1002/pssb.201000640>
- Kirby, G. A. 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. 25(3). <https://doi.org/10.1109/TASC.2014.2361933>
- Acar, Erman, Sari Peltonen and Ulla Ruotsalainen. "Adaptive multiresolution method for MAP reconstruction in electron tomography". *Ultramicroscopy*. 2016, 170. 24-34. <https://doi.org/10.1016/j.ultramic.2016.08.002>
- Salmi, Tiina, Timo Tarhasaari and Susana Izquierdo-Bermudez. "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). <https://doi.org/10.1109/TASC.2020.2981304>
- Wang, Jianguang and Asok K. Ray. "Adsorption and dissociation of molecular oxygen on  $\alpha$ -Pu (0 2 0) surface: A density functional study". *Physica B: Condensed Matter*. 2011, 406(17). 3285-3294. <https://doi.org/10.1016/j.physb.2011.05.041>
- van Nugteren, Jeroen et al. "A Fast Quench Protection System for High-Temperature Superconducting Magnets". *IEEE Transactions on Applied Superconductivity*. 2019. 29(1). <https://doi.org/10.1109/TASC.2018.2848229>
- Lahtinen, Valtteri et al. "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, 28(8). 2345-2354. <https://doi.org/10.1007/s10948-015-3074-x>
- Nechay, Kostiantyn et al. "AlGaAs/AlGaInP VECSELs with Direct Emission at 740-770 nm". *IEEE Photonics Technology Letters*. 2019, 31(15). 1245-1248. <https://doi.org/10.1109/LPT.2019.2924289>
- Ali-Löytty, Harri et al. "Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction". *Journal of Physical Chemistry C*. 2016, 120(4). 2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>

Ma, L. and A. K. Ray. "An ab initio study of  $\text{PuO}_{2\pm 0.25}$ ,  $\text{UO}_{2\pm 0.25}$ , and  $\text{U}_{0.5}\text{Pu}_{0.5}\text{O}_{2\pm 0.25}$ ". *European Physical Journal B*. 2011, 81(1). 103-113. <https://doi.org/10.1140/epjb/e2011-10759-0>

Salmi, Tiina et al. "Analysis of uncertainties in protection heater delay time measurements and simulations in Nb<sub>3</sub>Sn high-field accelerator magnets". *IEEE Transactions on Applied Superconductivity*. 2015. 25(4). <https://doi.org/10.1109/TASC.2015.2437332>

Zhao, Junjie et al. "Analytical and Numerical Methods to Estimate the Effective Mechanical Properties of Rutherford Cables". *IEEE Transactions on Applied Superconductivity*. 2020. 30(5). <https://doi.org/10.1109/TASC.2020.2968924>

Skaugen, Audun, Peyton Murray, and Lasse Laurson. "Analytical computation of the demagnetizing energy of thin-film domain walls". *Physical Review B*. 2019. 100(9). <https://doi.org/10.1103/PhysRevB.100.094440>

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

Beck, Sungho et al. "A new power-consumption optimization technique for two-stage operational amplifiers". *IEICE TRANSACTIONS ON ELECTRONICS*. 2011, E94-C(6). 1138-1140. <https://doi.org/10.1587/transele.E94.C.1138>

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

Belahcen, Anouar et al. "Anisotropic and strain-dependent model of magnetostriction in electrical steel sheets". *IEEE Transactions on Magnetics*. 2015. 51(3). <https://doi.org/10.1109/TMAG.2014.2361681>

Stumpel, Jelle E. 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, Masoumeh et al. "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, Péter Tamás et al. "Architectures and codecs for real-time light field streaming". *Journal of Imaging Science and Technology*. 2017. 61(1). <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>

Kalimeri, Maria, Philippe Derreumaux and Fabio Sterpone. "Are coarse-grained models apt to detect protein thermal stability? the case of OPEP force field". *Journal of Non-Crystalline Solids*. 2015, 407. 494-501. <https://doi.org/10.1016/j.jnoncrysol.2014.07.005>

Heiskanen, J. P. et al. "Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells". *Thin Solid Films*. 2015, 574. 196-206. <https://doi.org/10.1016/j.tsf.2014.12.007>

Sarcan, F. 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. 33(6). <https://doi.org/10.1088/1361-6641/aabc39>

Glorieux, Benoit et al. "Better understanding of the role of  $\text{SiO}_2$ ,  $\text{P}_2\text{O}_5$  and  $\text{Al}_2\text{O}_3$  on the spectroscopic properties of  $\text{Yb}^{3+}$  doped silica sol-gel glasses". *Journal of Non-Crystalline Solids*. 2018, 482. 46-51. <https://doi.org/10.1016/j.jnoncrysol.2017.12.021>

Rasappa, Sozaraj et al. "Block copolymer lithography: Feature size control and extension by an over-etch technique". *Thin Solid Films*. 2012, 522. 318-323. <https://doi.org/10.1016/j.tsf.2012.09.017>

Ramesh, Anisha et al. "Boron delta-doping dependence on Si/SiGe resonant interband tunneling diodes grown by chemical vapor deposition". *IEEE Transactions on Electron Devices*. 2012, 59(3). 602-609. <https://doi.org/10.1109/TED.2011.2180532>

Giannoulis, Giannis et al. "Bringing High-Performance GaInNAsSb/GaAs SOAs to True Data Applications". *IEEE Photonics Technology Letters*. 2015, 27(16). 1691-1694. <https://doi.org/10.1109/LPT.2015.2436697>

Jung, Kyung Young et al. "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, Ilari and Lasse Laurson. "Bursty magnetic friction between polycrystalline thin films with domain walls". *Physical Review B*. 2019. 100(14). <https://doi.org/10.1103/PhysRevB.100.144408>

Koivusaari, K. Jarmo, Tapio T. Rantala and Seppo Leppävuori. "Calculated electronic density of states and structural properties of tetrahedral amorphous carbon". *Diamond and Related Materials*. 2000, 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, Erdem and Levent Onural. "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, Jussi et al. "Capability assessment of inkjet printing for reliable RFID applications". *IEEE Transactions on Device and Materials Reliability*. 2017, 17(2). 281-290. <https://doi.org/10.1109/TDMR.2016.2636342>

Casula, Riccardo et al. "Cascaded crystalline raman lasers for extended wavelength coverage: Continuous-wave, third-stokes operation". *Optica*. 2018, 5(11). 1406-1413. <https://doi.org/10.1364/OPTICA.5.001406>

Ma, Li, Kari Laasonen, and Jaakko Akola. "Catalytic Activity of AuCu Clusters on MgO(100): Effect of Alloy Composition for CO Oxidation". *Journal of Physical Chemistry C*. 2017, 121(20). 10876-10886. <https://doi.org/10.1021/acs.jpcc.6b12054>

Caglayan, Humeyra et al. "Cavity formation in split ring resonators". *Photonics and Nanostructures - Fundamentals and Applications*. 2008, 6(3-4). 200-204. <https://doi.org/10.1016/j.photonics.2008.09.001>

Mashayekhi, Mohammad et al. "Chip-by-chip configurable interconnection using digital printing techniques". *Journal of Micromechanics and Microengineering*. 2017. 27(4). <https://doi.org/10.1088/1361-6439/aa5ef3>

Bajas, H. 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). <https://doi.org/10.1109/TASC.2013.2245281>

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

Moiseev, E. I. et al. "Comparative Analysis of Injection Microdisk Lasers Based on InGaAsN Quantum Wells and InAs/InGaAs Quantum Dots". *Semiconductors*. 2020, 54(2). 263-267. <https://doi.org/10.1134/S1063782620020177>

Musgraves, J. D. 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, 59(12). 5032-5039. <https://doi.org/10.1016/j.actamat.2011.04.060>

Vignion-Dewalle, Anne Sophie et al. "Comparison of three light doses in the photodynamic treatment of actinic keratosis using mathematical modeling". *JOURNAL OF BIOMEDICAL OPTICS*. 2015. 20(5). <https://doi.org/10.1117/1.JBO.20.5.058001>

Bansod, Naresh D. et al. "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, Arto et al. "Composition dependent growth dynamics in molecular beam epitaxy of GaInNAs solar cells". *Solar Energy Materials and Solar Cells*. 2014, 124. 150-158. <https://doi.org/10.1016/j.solmat.2014.01.044>

Katkovnik, Vladimir et al. "Computational super-resolution phase retrieval from multiple phase-coded diffraction patterns: Simulation study and experiments". *Optica*. 2017, 4(7). 786-794. <https://doi.org/10.1364/OPTICA.4.000786>

Silwal, Bishal 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. 50(12). <https://doi.org/10.1109/TMAG.2014.2333491>

Schoerling, Daniel et al. "Considerations on a Cost Model for High-Field Dipole Arc Magnets for FCC". *IEEE Transactions on Applied Superconductivity*. 2017. 27(4). <https://doi.org/10.1109/TASC.2017.2657510>

Bhagavatheswaran, Eshwaran Subramani et al. "Construction of an Interconnected Nanostructured Carbon Black Network: Development of Highly Stretchable and Robust Elastomeric Conductors". *Journal of Physical Chemistry C*. 2015, 119(37). 21723-21731. <https://doi.org/10.1021/acs.jpcc.5b06629>

Habib, Mohsin et al. "Controlling the plasmon resonance via epsilon-near-zero multilayer metamaterials". *Nanophotonics*. 2020. 9(11). <https://doi.org/10.1515/nanoph-2020-0245>

Ropo, M., J. Akola and R. O. Jones. "Crystallization of supercooled liquid antimony: A density functional study". *Physical Review B*. 2017. 96(18). <https://doi.org/10.1103/PhysRevB.96.184102>

Kalikka, J., J. Akola and R. O. Jones. "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. 94(13). <https://doi.org/10.1103/PhysRevB.94.134105>

Vikholm-Lundin, Inger et al. "Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold". *Sensors and Actuators B: Chemical*. 2012, 171-172. 440-448. <https://doi.org/10.1016/j.snb.2012.05.008>

Pirkkalainen, Herkko, Jarmo Elovaara and Leena Korpinen. "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, Thomas Edward James et al. "Deformation of lamellar  $\gamma$ -TiAl below the general yield stress". *Acta Materialia*. 2019, 163. 122-139. <https://doi.org/10.1016/j.actamat.2018.09.061>

Saeidi, Shayan et al. "Demonstration of optical nonlinearity in InGaAsP/InP passive waveguides". *Optical Materials*. 2018, 84. 524-530. <https://doi.org/10.1016/j.optmat.2018.07.037>

Järvelä, Joonas et al. "Design, fabrication, and testing of a low AC-loss conduction-cooled cryostat for magnetization loss measurement apparatus". *IEEE Transactions on Applied Superconductivity*. 2015. 25(1). <https://doi.org/10.1109/TASC.2014.2357754>

- Bulu, Irfan, Humeyra Caglayan and Ekmel Ozbay. "Designing materials with desired electromagnetic properties". *Microwave and Optical Technology Letters*. 2006, 48(12). 2611-2615. <https://doi.org/10.1002/mop.21988>
- Lorin, Clement et al. "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). <https://doi.org/10.1109/TASC.2018.2797945>
- Vikholm-Lundin, Inger, Sanna Auer and Ann Charlotte Hellgren. "Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies". *Sensors and Actuators B: Chemical*. 2011, 156(1). 28-34. <https://doi.org/10.1016/j.snb.2011.03.069>
- Wang, Dapeng et al. "Determination of beam incidence conditions based on the analysis of laser interference patterns". *Optik*. 2015, 126(21). 2902-2907. <https://doi.org/10.1016/j.ijleo.2015.07.039>
- Cuyon, Laurie et al. "Development of a new illumination procedure for photodynamic therapy of the abdominal cavity". *JOURNAL OF BIOMEDICAL OPTICS*. 2012, 17(3). <https://doi.org/10.1117/1.JBO.17.3.038001>
- Ferracin, P. et al. "Development of MQXF: The Nb<sub>3</sub>Sn Low- $\beta$  Quadrupole for the HiLumi LHC". *IEEE Transactions on Applied Superconductivity*. 2016, 26(4). <https://doi.org/10.1109/TASC.2015.2510508>
- Valkealahti, S. and M. Manninen. "Diffusion on aluminum-cluster surfaces and the cluster growth". *Physical Review B - Condensed Matter and Materials Physics*. 1998, 57(24). 15533-15540. <https://doi.org/10.1103/PhysRevB.57.15533>
- Aho, Arto et al. "Dilute nitride triple junction solar cells for space applications: Progress towards highest AM0 efficiency". *Progress in Photovoltaics: Research and Applications*. 2018, 26(19). 740-744. <https://doi.org/10.1002/ppa.3011>
- Kumpula, R. et al. "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). <https://doi.org/10.1088/0022-3719/12/21/001>
- Hupa, Leena et al. "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.jnoncrysol.2015.03.026>
- Sitbon, M. et al. "Dynamics of photovoltaic-generator-interfacing voltage-controlled buck power stage". *IEEE Journal of Photovoltaics*. 2015, 5(2). 633-640. <https://doi.org/10.1109/JPHOTOV.2014.2379094>
- Stoykova, Elena et al. "Dynamic speckle analysis with smoothed intensity-based activity maps". *Optics and Lasers in Engineering*. 2017, 93. 55-65. <https://doi.org/10.1016/j.optlaseng.2017.01.012>
- Ojha, N. et al. "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, 544. <https://doi.org/10.1016/j.jnoncrysol.2020.120243>
- Hakola, Hanna et al. "Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods". *Journal of Physical Chemistry C*. 2016, 120(13). 7044-7051. <https://doi.org/10.1021/acs.jpcc.6b01583>
- Sharma, Ramakant, Sagar Bhalerao and Dipti Gupta. "Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells". *Organic Electronics: physics, materials, applications*. 2016, 33. 274-280. <https://doi.org/10.1016/j.orgel.2016.03.030>
- Kapgate, Bharat P. et al. "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, 63(3). 501-509. <https://doi.org/10.1007/s10971-012-2812-9>

Lopez-Iscoa, Pablo et al. "Effect of the addition of  $\text{Al}_2\text{O}_3$ ,  $\text{TiO}_2$  and ZnO on the thermal, structural and luminescence properties of  $\text{Er}^{3+}$ -doped phosphate glasses". *Journal of Non-Crystalline Solids*. 2017, 460. 161-168. <https://doi.org/10.1016/j.jnoncrysol.2017.01.030>

Massera, J. et al. "Effect of the glass melting condition on the processing of phosphate-based glass-ceramics with persistent luminescence properties". *Optical Materials*. 2016, 52. 56-61. <https://doi.org/10.1016/j.optmat.2015.12.006>

Pavelescu, Emil-Mihai 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, 52. 177-180. <https://doi.org/10.1016/j.optmat.2015.12.035>

Mäkelä, J. et al. "Effects of thinning and heating for  $\text{TiO}_2/\text{AlInP}$  junctions". *Journal of Electron Spectroscopy and Related Phenomena*. 2015, 205. 6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>

Durandin, Nikita A. et al. "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, Behnam, Altti Torkkeli, and Matti Mäntysalo. "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. 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). <https://doi.org/10.1088/1361-6641/ab5d8d>

Assanto, Gaetano et al. "Electro-optic steering of nematicons". *Photonics Letters of Poland*. 2012, 4(1). 2-4. <https://doi.org/10.4302/plp.2012.1.02>

Assanto, Gaetano et al. "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. 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, 119(33). 18835-18842. <https://doi.org/10.1021/acs.jpcc.5b02767>

Salmi, Tiina and Daniel Schoerling. "Energy density-method: An approach for a quick estimation of quench temperatures in high-field accelerator magnets". *IEEE Transactions on Applied Superconductivity*. 2019. 29(4). <https://doi.org/10.1109/TASC.2018.2880340>

Minarelli, Emma L. et al. "Engineering of Chern insulators and circuits of topological edge states". *Physical Review B*. 2019. 99(16). <https://doi.org/10.1103/PhysRevB.99.165413>

Tamminen, Pasi et al. "ESD qualification data used as the basis for building electrostatic discharge protected areas". *Journal of Electrostatics*. 2015, 77. 174-181. <https://doi.org/10.1016/j.elstat.2015.08.009>

Poutala, Arto, Tuomas Kovanen and Lauri Kettunen. "Essential Measurements for Finite Element Simulations of Magnetostrictive Materials". *IEEE Transactions on Magnetics*. 2018. 54(1). <https://doi.org/10.1109/TMAG.2017.2766599>

Mashayekhi, Mohammad 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, 63(3). 1246-1253. <https://doi.org/10.1109/TED.2016.2522388>

- Kanerva, Ulla et al. "Evaluation of crushing strength of spray-dried MgAl<sub>2</sub>O<sub>4</sub> granule beds". *Ceramics International*. 2015, 41(7). 8494-8500. <https://doi.org/10.1016/j.ceramint.2015.03.056>
- Mikkonen, Riikka and Matti Mäntysalo. "Evaluation of screen printed silver trace performance and long-term reliability against environmental stress on a low surface energy substrate". *Microelectronics Reliability*. 2018, 86. 54-65. <https://doi.org/10.1016/j.microrel.2018.05.010>
- Prando, G. A. 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. 33(8). <https://doi.org/10.1088/1361-6641/aad02e>
- Nejadsattari, Farshad et al. "Experimental realization of wave-packet dynamics in cyclic quantum walks". *Optica*. 2019, 6(2). 174-180. <https://doi.org/10.1364/OPTICA.6.000174>
- Lorin, Clement et al. "Exploration of Two Layer Nb<sub>3</sub>Sn Designs of the Future Circular Collider Main Quadrupoles". *IEEE Transactions on Applied Superconductivity*. 2019. 29(5). <https://doi.org/10.1109/TASC.2019.2892814>
- Khan, M. Nuruzzaman and Michael Zharnikov. "Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation". *Journal of Physical Chemistry C*. 2013, 117(47). 24883-24893. <https://doi.org/10.1021/jp408819k>
- Khan, M. Nuruzzaman and Michael Zharnikov. "Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents". *Journal of Physical Chemistry C*. 2014, 118(6). 3093-3101. <https://doi.org/10.1021/jp411353f>
- Kulya, M. S. et al. "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, Katarzyna et al. "FEM for directly coupled magneto-mechanical phenomena in electrical machines". *IEEE Transactions on Magnetics*. 2010, 46(8). 2923-2926. <https://doi.org/10.1109/TMAG.2010.2044148>
- Kirby, Glyn A. et al. "First Cold Powering Test of REBCO Roebel Wound Coil for the EuCARD2 Future Magnet Development Project". *IEEE Transactions on Applied Superconductivity*. 2017. 27(4). <https://doi.org/10.1109/TASC.2017.2653204>
- Dongho-Nguimdo, G. M. et al. "First principles prediction of the solar cell efficiency of chalcopyrite materials AgMX<sub>2</sub> (M=In, Al; X=S, Se, Te)". *Computational Condensed Matter*. 2019. 21. <https://doi.org/10.1016/j.cocom.2019.e00391>
- Kulju, S. et al. "Fluid flow simulations meet high-speed video: Computer vision comparison of droplet dynamics". *Journal of Colloid and Interface Science*. 2018, 522. 48-56. <https://doi.org/10.1016/j.jcis.2018.03.053>
- Välimäki, Hannu et al. "Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models". *Sensors and Actuators B: Chemical*. 2017, 249. 738-746. <https://doi.org/10.1016/j.snb.2017.04.182>
- Zolotovskii, I. O., D. A. Korobko and O. G. Okhotnikov. "Frequency modulation of semiconductor disk laser pulses". *Quantum Electronics*. 2015, 45(7). 628-634. <https://doi.org/10.1070/QE2015v045n07ABEH015670>
- Fickler, Robert et al. "Full-field mode sorter using two optimized phase transformations for high-dimensional quantum cryptography". *Journal of Optics (United Kingdom)*. 2020. 22(2). <https://doi.org/10.1088/2040-8986/ab6303>
- Guandalini, Alberto et al. "Fundamental gaps of quantum dots on the cheap". *Physical Review B*. 2019. 99(12). <https://doi.org/10.1103/PhysRevB.99.125140>

Kurka, M. et al. "GaInAsSb/AlGa(In)AsSb type I quantum wells emitting in 3µm range for application in superluminescent diodes". *Optical Materials*. 2019, 91. 274-278. <https://doi.org/10.1016/j.optmat.2019.03.036>

Räisänen, Ville, Saku Suuriniemi and Lauri Kettunen. "Generalized slip transformations and air-gap harmonics in field models of electrical machines". *IEEE Transactions on Magnetics*. 2016. 52(9). <https://doi.org/10.1109/TMAG.2016.2561907>

Zolotovskii, I. O. et al. "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, I. O. et al. "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, Jari et al. "Generation of Sub-100 ps Pulses at 532, 355, and 266 nm Using a SESAM Q-Switched Microchip Laser". *IEEE Photonics Technology Letters*. 2017, 29(21). 1816-1819. <https://doi.org/10.1109/LPT.2017.2752421>

Goh, Jing-Qiang, Jaakko Akola and Riccardo Ferrando. "Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study". *Journal of Physical Chemistry C*. 2017, 121(20). 10809-10816. <https://doi.org/10.1021/acs.jpcc.6b11958>

Mosallaei, Mahmoud et al. "Geometry Analysis in Screen-Printed Stretchable Interconnects". *IEEE Transactions on Components, Packaging and Manufacturing Technology*. 2018, 8(8). 1344-1352. <https://doi.org/10.1109/TCPMT.2018.2854635>

Sorianello, Vito et al. "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, Piotr et al. "Ghost imaging in the time domain". *Nature Photonics*. 2016, (10). 167-170. <https://doi.org/10.1038/nphoton.2015.274>

Nieminen, Arttu, Andrea Marini, and Marco Ornigotti. "Goos-Hänchen and Imbert-Fedorov shifts for epsilon-near-zero materials". *Journal of Optics*. 2020. 22(3). <https://doi.org/10.1088/2040-8986/ab6ae7>

Habib, Mohsin et al. "Graphene-based tunable plasmon induced transparency in gold strips". *Optical Materials Express*. 2018, 8(4). 1069-1074. <https://doi.org/10.1364/OME.8.001069>, <https://doi.org/10.1364/OME.8.001069>

Kotilainen, Minna et al. "Hafnium oxide thin films as a barrier against copper diffusion in solar absorbers". *Solar Energy Materials and Solar Cells*. 2017, 166. 140-146. <https://doi.org/10.1016/j.solmat.2017.02.033>

Saccone, Marco 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, 73(2). 227-233. <https://doi.org/10.1107/S2052520617003444>

Priimagi, Arri et al. "Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers". *Advanced Functional Materials*. 2012, 22(12). 2572-2579. <https://doi.org/10.1002/adfm.201200135>

Korobko, D. A. et al. "Harmonic mode-locking fiber ring laser with a pulse repetition rate up to 12 GHz". *Optics and laser technology*. 2020. 133. <https://doi.org/10.1016/j.optlastec.2020.106526>



- Tofanello, Aryane et al. "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, Florian et al. "High-dimensional quantum gates using full-field spatial modes of photons". *Optica*. 2020, 7(2). 98-107. <https://doi.org/10.1364/OPTICA.375875>
- Hannula, M. et al. "Highly efficient charge separation in model Z-scheme  $\text{TiO}_2/\text{TiSi}_2/\text{Si}$  photoanode by micropatterned titanium silicide interlayer". *Acta Materialia*. 2019, 174. 237-245. <https://doi.org/10.1016/j.actamat.2019.05.032>
- Pajukoski, H. et al. "High performance corrosion resistant coatings by novel coaxial cold- and hot-wire laser cladding methods". *Journal of Laser Applications*. 2016. 28(1). <https://doi.org/10.2351/1.4936988>
- Mojica, Edson, Said Pertuz and Henry Arguello. "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. et al. "Hot spot temperature in an HTS Coil: Simulations with MIITs and finite element method". *IEEE Transactions on Applied Superconductivity*. 2015. 25(2). <https://doi.org/10.1109/TASC.2015.2396945>
- Passananti, Monica 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, Igor et al. "Hyperspectral phase imaging based on denoising in complex-valued eigensubspace". *Optics and Lasers in Engineering*. 2020. 127. <https://doi.org/10.1016/j.optlaseng.2019.105973>
- Murtomäki, Jaakko Samuel et al. "ICED - Inductively Coupled Energy Dissipater for Future High Field Accelerator Magnets". *IEEE Transactions on Applied Superconductivity*. 2018. 28(8). <https://doi.org/10.1109/TASC.2018.2841909>
- Rasilo, Paavo et al. "Identification of synchronous machine magnetization characteristics from calorimetric core-loss and no-load curve measurements". *IEEE Transactions on Magnetics*. 2015. 51(3). <https://doi.org/10.1109/TMAG.2014.2354055>
- Rasilo, Paavo, Anouar Belahcen and Antero Arkkio. "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, Milad et al. "Improvements in the electromechanical properties of stretchable interconnects by locally tuning the stiffness". *Flexible and Printed Electronics*. 2020. 5(1). <https://doi.org/10.1088/2058-8585/ab68ae>
- Polojärvi, Ville 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, 149. 213-220. <https://doi.org/10.1016/j.solmat.2016.01.024>
- Okun, Oleksandr, Yurii Kravchenko and Leena Korpinen. "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. et al. "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, Kevin et al. "Influence of the  $\text{P}_2\text{O}_5/\text{Al}_2\text{O}_3$  co-doping on the local environment of erbium ions and on the 1.5  $\mu\text{m}$  quantum efficiency of  $\text{Er}^{3+}$ -borosilicate glasses". *Optical Materials*. 2014, 36(5). 926-931. <https://doi.org/10.1016/j.optmat.2013.12.035>

- Ojha, N. et al. "Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics". *Ceramics International*. 2018, 44(10). 11807-11811. <https://doi.org/10.1016/j.ceramint.2018.03.267>
- Cook, Benjamin S. et al. "Inkjet catalyst printing and electroless copper deposition for low-cost patterned microwave passive devices on paper". *Electronic Materials Letters*. 2013, 9(5). 669-676. <https://doi.org/10.1007/s13391-013-3027-0>
- Le, Taoran et al. "Inkjet printing of radio frequency electronics: Design methodologies and application of novel nanotechnologies". *Journal of Electronic Packaging*. 2013. 135(1). <https://doi.org/10.1115/1.4023671>
- Valkealahti, S. and M. Manninen. "Instability of cuboctahedral copper clusters". *Physical Review B*. 1992, 45(16). 9459-9462. <https://doi.org/10.1103/PhysRevB.45.9459>
- Gupta, Samit K. et al. "Interfacial design and structure of protein/polymer films on oxidized AlGaN surfaces". *Journal of Physics D: Applied Physics*. 2011. 44(3). <https://doi.org/10.1088/0022-3727/44/3/034010>
- Bhavitha, K. B. et al. "Investigating solvent effects on aggregation behaviour, linear and nonlinear optical properties of silver nanoclusters". *Optical Materials*. 2017, 73. 695-705. <https://doi.org/10.1016/j.optmat.2017.09.024>
- Ma, Li et al. "Investigating the metallic behavior of Na clusters using site-specific polarizabilities". *Physical Review B*. 2014. 89(3). <https://doi.org/10.1103/PhysRevB.89.035429>
- Heinonen, Saara et al. "Investigation of long-term chemical stability of structured ZnO films in aqueous solutions of varying conditions". *Thin Solid Films*. 2017, 638. 410-419. <https://doi.org/10.1016/j.tsf.2017.07.055>
- Murtomäki, Jaakko Samuel et al. "Investigation of REBCO Roebel Cable Irreversible Critical Current Degradation Under Transverse Pressure". *IEEE Transactions on Applied Superconductivity*. 2018. 28(4). <https://doi.org/10.1109/TASC.2018.2829150>
- Rasilo, Paavo et al. "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, M. Nuruzzaman and Michael Zharnikov. "Irradiation promoted exchange reaction with disulfide substituents". *Journal of Physical Chemistry C*. 2013, 117(28). 14534-14543. <https://doi.org/10.1021/jp4006026>
- Ärrälä, Minna et al. "Laser angle-resolved photoemission as a probe of initial state  $k_z$  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. 94(15). <https://doi.org/10.1103/PhysRevB.94.155144>
- Cappelluti, F. 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, Urszula A. et al. "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, Gaetano et al. "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. et al. "Localized surface plasmon resonance in silver nanoparticles: Atomistic first-principles time-dependent density-functional theory calculations". *Physical Review B*. 2015. 91(11). <https://doi.org/10.1103/PhysRevB.91.115431>

Baek, Jinseok et al. "Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges". *Journal of Physical Chemistry C*. 2017, 121(25). 13952-13961. <https://doi.org/10.1021/acs.jpcc.7b04483>

Sorianello, Vito et al. "Low-temperature germanium thin films on silicon". *Optical Materials Express*. 2011, 1(5). 856-865. <https://doi.org/10.1364/OME.1.000856>

Ghazy, Amr 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. <https://doi.org/10.1016/j.solmat.2020.110787>

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

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

Isoniemi, Tommi et al. "Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene): poly(styrene sulfonate) films with added graphene". *Organic Electronics*. 2015, 25. 317-323. <https://doi.org/10.1016/j.orgel.2015.06.037>, <https://doi.org/10.1016/j.orgel.2015.06.037>

Zhao, Junjie et al. "Mechanical behavior of a 16 T FCC dipole magnet during a quench". *IEEE Transactions on Applied Superconductivity*. 2017. 27(6). <https://doi.org/10.1109/TASC.2017.2721974>

Barberi, Jacopo et al. "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, Jaakko S. et al. "Mechanical Effects of the Nonuniform Current Distribution on HTS Coils for Accelerators Wound With REBCO Roebel Cable". *IEEE Transactions on Applied Superconductivity*. 2017. 27(4). <https://doi.org/10.1109/TASC.2017.2665882>

Zhao, Junjie 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, 550. 27-34. <https://doi.org/10.1016/j.physc.2018.04.003>

Magarkar, Aniket et al. "Membrane bound COMT isoform is an interfacial enzyme: General mechanism and new drug design paradigm". *Chemical Communications*. 2018, 54(28). 3440-3443. <https://doi.org/10.1039/c8cc00221e>

Sorianello, V. et al. "Micro-Raman characterization of Germanium thin films evaporated on various substrates". *Microelectronic Engineering*. 2011, 88(4). 492-495. <https://doi.org/10.1016/j.mee.2010.10.028>

Karhu, Marjaana et al. "Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics: Effect of mineralogical composition on microstructure and properties". *Ceramics International*. 2019, 45(4). 4840-4848. <https://doi.org/10.1016/j.ceramint.2018.11.180>

Palmolahti, Lauri et al. "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, Sozaraj et al. "Morphology evolution of PS-b-PDMS block copolymer and its hierarchical directed self-assembly on block copolymer templates". *Microelectronic Engineering*. 2018, 192. 1-7. <https://doi.org/10.1016/j.mee.2018.02.002>

- Korobko, D. A. et al. "Multisoliton complexes in fiber lasers". *Optical Fiber Technology*. 2014, 20(6). 593-609. <https://doi.org/10.1016/j.yofte.2014.08.011>
- Hütner, Johanna, Touko Herranen, and Lasse Laurson. "Multistep Bloch-line-mediated Walker breakdown in ferromagnetic strips". *Physical Review B*. 2019. 99(17). <https://doi.org/10.1103/PhysRevB.99.174427>
- Virtanen, Heikki et al. "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, Vito et al. "Near-infrared photodetectors in evaporated ge: Characterization and TCAD simulations". *IEEE Transactions on Electron Devices*. 2013, 60(6). 1995-2000. <https://doi.org/10.1109/TED.2013.2259241>
- Vehanen, A. et al. "Near-surface defect profiling with slow positrons: Argon-sputtered Al(110)". *Physical Review B*. 1985, 32(11). 7561-7563. <https://doi.org/10.1103/PhysRevB.32.7561>
- Cemlyn, Ben et al. "Near-threshold high spin amplification in a 1300 nm GaInNAs spin laser". *Semiconductor Science and Technology*. 2018. 33(9). <https://doi.org/10.1088/1361-6641/aad42e>
- Salpavaara, Timo et al. "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, Mikko J. et al. "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, Armando, Stefania Residori, and Gaetano Assanto. "Nonlocal soliton scattering in random potentials". *Journal of Optics*. 2016. 18(7). <https://doi.org/10.1088/2040-8978/18/7/07LT01>
- Del Cerro, Paloma Roldán et al. "Novel borosilicate bioactive scaffolds with persistent luminescence". *Biomedical Glasses*. 2020, 6(1). 1-9. <https://doi.org/10.1515/bglass-2020-0001>
- Cui, S. et al. "Novel oxyfluorophosphate glasses and glass-ceramics". *Journal of Non-Crystalline Solids*. 2016, 445-446. 40-44. <https://doi.org/10.1016/j.jnoncrysol.2016.05.005>
- Caglayan, Humeyra and Ekmel Özbay. "Observation of cavity structures in composite metamaterials". *Journal of Nanophotonics*. 2010. 4(1). <https://doi.org/10.1117/1.3475763>
- Caglayan, H., I. Bulu and E. Ozbay. "Observation of off-axis directional beaming via subwavelength asymmetric metallic gratings". *Journal of Physics D: Applied Physics*. 2009. 42(4). <https://doi.org/10.1088/0022-3727/42/4/045105>
- Klauck, F. et al. "Observation of PT-symmetric quantum interference". *Nature Photonics*. 2019. <https://doi.org/10.1038/s41566-019-0517-0>
- Kuzmin, M. 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. 92(16). <https://doi.org/10.1103/PhysRevB.92.165311>
- Haapanen, Janne et al. "On the limit of superhydrophobicity: Defining the minimum amount of TiO<sub>2</sub> nanoparticle coating". *Materials Research Express*. 2019. 6(3). <https://doi.org/10.1088/2053-1591/aaf2ee>
- Stenvall, Antti and Valtteri Lahtinen. "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. et al. "Optical power monitors in Ge monolithically integrated on SOI chips". *Microelectronic Engineering*. 2011, 88(4). 514-517. <https://doi.org/10.1016/j.mee.2010.10.033>

Gunes, M. 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. 33(12). <https://doi.org/10.1088/1361-6641/aaea2e>

Ruuskanen, Janne et al. "Optimization of an E3SPreSSO Energy-Extraction System for High-Field Superconducting Magnets". *IEEE Transactions on Applied Superconductivity*. 2018. 28(3). <https://doi.org/10.1109/TASC.2018.2794457>

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

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

Salpavaara, Timo et al. "Passive resonance sensor based method for monitoring particle suspensions". *Sensors and Actuators B: Chemical*. 2015, 219. 324-330. <https://doi.org/10.1016/j.snb.2015.04.121>

Valagiannopoulos, C. A. et al. "Perfect magnetic mirror and simple perfect absorber in the visible spectrum". *Physical Review B*. 2015. 91(11). <https://doi.org/10.1103/PhysRevB.91.115305>

De Donno, D. et al. "Performance enhancement of the RFID EPC Gen2 protocol by exploiting collision re-recovery". *Progress in Electromagnetics Research B*. 2012, (43). 53-72.

Ojha, N. et al. "Phosphate glasses with blue persistent luminescence prepared using the direct doping method". *Optical Materials*. 2019, 87. 151-156. <https://doi.org/10.1016/j.optmat.2018.03.063>

Heinonen, Saara et al. "Photocatalytic and antibacterial properties of ZnO films with different surface topographies on stainless steel substrate". *Thin Solid Films*. 2016, 616. 842-849. <https://doi.org/10.1016/j.tsf.2016.10.002>

Shimamura, Aki et al. "Photoinduced bending upon pulsed irradiation in azobenzene-containing crosslinked liquid-crystalline polymers". *Journal of Nonlinear Optical Physics and Materials*. 2011, 20(4). 405-413. <https://doi.org/10.1142/S0218863511006200>

Virkki, Kirsi et al. "Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods: Aggregation Effects". *Journal of Physical Chemistry C*. 2017, 121(17). 9594-9605. <https://doi.org/10.1021/acs.jpcc.7b01562>

Virkki, Kirsi et al. "Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids". *Journal of Physical Chemistry C*. 2015, 119(31). 17561-17572. <https://doi.org/10.1021/acs.jpcc.5b04251>

Vapaavuori, Jaana 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, Jinseok et al. "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, Riku 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, 195. 198-203. <https://doi.org/10.1016/j.solmat.2019.02.030>

Ozbay, Ekmel et al. "Physics and applications of photonic crystals". *Photonics and Nanostructures - Fundamentals and Applications*. 2004, 2(2). 87-95. <https://doi.org/10.1016/j.photonics.2004.08.001>

Viitala, Matti, Mikael Kuisma, and Tapio T. Rantala. "Physisorption of benzene on a tin dioxide surface: Van der Waals interaction". *Physical Review B*. 2012, 85(8). 1-5. <https://doi.org/10.1103/PhysRevB.85.085412>

Selvan, N. Tamil et al. "Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications". *Sensors and Actuators, A: Physical*. 2016, 239. 102-113. <https://doi.org/10.1016/j.sna.2016.01.004>

Borah, D. et al. "Plasma etch technologies for the development of ultra-small feature size transistor devices". *Journal of Physics D: Applied Physics*. 2011. 44(17). <https://doi.org/10.1088/0022-3727/44/17/174012>

Yildiz, Bilge Can, Alpan Bek and Mehmet Emre Tasgin. "Plasmon lifetime enhancement in a bright-dark mode coupled system". *Physical Review B*. 2020. 101(3). <https://doi.org/10.1103/PhysRevB.101.035416>

Aihara, Yosuke et al. "Polymer stabilization enhances the orientational optical nonlinearity of oligothiophene-doped nematic liquid crystals". *Advanced Optical Materials*. 2013, 1(11). 787-791. <https://doi.org/10.1002/adom.201300326>

Kleiven, David and Jaakko Akola. "Precipitate formation in aluminium alloys: Multi-scale modelling approach". *Acta Materialia*. 2020, 195. 123-131. <https://doi.org/10.1016/j.actamat.2020.05.050>

Lin, Ziyin 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). <https://doi.org/10.1115/1.4023758>

Heikkinen, Jarkko J. et al. "Printable and flexible macroporous organosilica film with high protein adsorption capacity". *Thin Solid Films*. 2012, 520(6). 1934-1937. <https://doi.org/10.1016/j.tsf.2011.09.041>

Wani, Owies M. et al. "Programming Photoresponse in Liquid Crystal Polymer Actuators with Laser Projector". *Advanced Optical Materials*. 2018. 6(1). <https://doi.org/10.1002/adom.201700949>

Todesco, Ezio et al. "Progress on HL-LHC Nb<sub>3</sub>Sn Magnets". *IEEE Transactions on Applied Superconductivity*. 2018. 28(4). <https://doi.org/10.1109/TASC.2018.2830703>

Kwaśny, Michał 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. et al. "Protection Heater Design Validation for the LARP Magnets Using Thermal Imaging". *IEEE Transactions on Applied Superconductivity*. 2016. 26(4). <https://doi.org/10.1109/TASC.2016.2530161>

Marinozzi, Vittorio et al. "Quench Protection Study of the Eurocircol 16 T cosθ Dipole for the Future Circular Collider (FCC)". *IEEE Transactions on Applied Superconductivity*. 2017. 27(4). <https://doi.org/10.1109/TASC.2017.2656156>

Marinozzi, Vittorio et al. "Quench Protection Study of the Updated MQXF for the LHC Luminosity Upgrade (HiLumi LHC)". *IEEE Transactions on Applied Superconductivity*. 2016. 26(4). <https://doi.org/10.1109/TASC.2016.2523548>

Bulu, Irfan, Humeyra Caglayan and Ekmel Ozbay. "Radiation properties of sources inside photonic crystals". *Physical Review B - Condensed Matter and Materials Physics*. 2003. 67(20). <https://doi.org/10.1103/PhysRevB.67.205103>

Sakho, El Hadji Mamour 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, Sanna et al. "Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor". *Sensors and Actuators B: Chemical*. 2015, 221. 507-514. <https://doi.org/10.1016/j.snb.2015.06.088>

Li, Zhuo et al. "Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas". *Advanced Functional Materials*. 2015, 25(3). 464-470. <https://doi.org/10.1002/adfm.201403275>

Vetter, Christian et al. "Realization of Free-Space Long-Distance Self-Healing Bessel Beams". *Laser and Photonics Reviews*. 2019. 13(10). <https://doi.org/10.1002/lpor.201900103>

Ryczkowski, P. et al. "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, Gaetano, Noel F. Smyth and Wenjun Xia. "Refraction of nonlinear light beams in nematic liquid crystals". *Journal of Nonlinear Optical Physics and Materials*. 2012. 21(3). <https://doi.org/10.1142/S0218863512500336>

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

Suhonen, T. et al. "Residual stress development in cold sprayed Al, Cu and Ti coatings". *Acta Materialia*. 2013, 61(17). 6329-6337. <https://doi.org/10.1016/j.actamat.2013.06.033>

Miller, Tristan L. et al. "Resolving unoccupied electronic states with laser ARPES in bismuth-based cuprate superconductors". *Physical Review B*. 2015. 91(8). <https://doi.org/10.1103/PhysRevB.91.085109>

Trujillo-Sevilla, J. M. et al. "Restoring Integral Images from Focal Stacks Using Compressed Sensing Techniques". *Journal of Display Technology*. 2016, 12(7). 701-706. <https://doi.org/10.1109/JDT.2016.2522922>

Joost, Urmas et al. "Reversible photodoping of TiO<sub>2</sub> nanoparticles". *Chemistry of Materials*. 2018, 30(24). 8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>

Myllymäki, Sami et al. "RF measurements to pinpoint defects in inkjet-printed, thermally and mechanically stressed coplanar waveguides". *Microelectronics Reliability*. 2016, 65. 142-150. <https://doi.org/10.1016/j.microrel.2016.08.021>

Akhmediev, Nail et al. "Roadmap on optical rogue waves and extreme events". *Journal of Optics*. 2016. 18(6). <https://doi.org/10.1088/2040-8978/18/6/063001>

Şahin, Erdem and Levent Onural. "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, 29(7). 1459-1469. <https://doi.org/10.1364/JOSAA.29.001459>

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

Chang, Bo et al. "Self-alignment in the stacking of microchips with mist-induced water droplets". *Journal of Micromechanics and Microengineering*. 2011. 21(1). <https://doi.org/10.1088/0960-1317/21/1/015016>

Chang, Bo et al. "Self-alignment of RFID dies on four-pad patterns with water droplet for sparse self-assembly". *Journal of Micromechanics and Microengineering*. 2011. 21(9). <https://doi.org/10.1088/0960-1317/21/9/095024>

Ouskova, Elena, Jaana Vapaavuori and Matti Kaivola. "Self-orienting liquid crystal doped with polymer-azo-dye complex". *Optical Materials Express*. 2011, 1(8). 1463-1470.

Lahtinen, Valtteri and Antti Stenvall. "Semantics of HTS AC Loss Modeling: Theories, Models, and Experiments". *IEEE Transactions on Applied Superconductivity*. 2020. 30(5). <https://doi.org/10.1109/TASC.2020.2976619>

Nair, Devi Geetha, Paavo Rasilo and Antero Arkkio. "Sensitivity Analysis of Inverse Thermal Modeling to Determine Power Losses in Electrical Machines". *IEEE Transactions on Magnetics*. 2018. 54(11). <https://doi.org/10.1109/TMAG.2018.2853084>

Goh, Jing-Qiang et al. "Silver sulfide nanoclusters and the superatom model". *Journal of Physical Chemistry C*. 2015, 119(3). 1583-1590. <https://doi.org/10.1021/jp511037x>

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

Virtanen, Heikki, Topi Uusitalo and Mihail Dumitrescu. "Simulation studies of DFB laser longitudinal structures for narrow linewidth emission". *Optical and Quantum Electronics*. 2017. 49(4). <https://doi.org/10.1007/s11082-017-0993-8>

Gadelovits, Shlomo et al. "Single-source multibattery solar charger: Case study and implementation issues". *Progress in Photovoltaics: Research and Applications*. 2015, 23(12). 1916-1928. <https://doi.org/10.1002/pip.2591>

Borah, Dipu 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, 25(22). 3425-3432. <https://doi.org/10.1002/adfm.201500100>

Kolesnik, Sergei 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, Alessandro et al. "Soliton enhancement of spontaneous symmetry breaking". *Optica*. 2015, 2(9). 783-789. <https://doi.org/10.1364/OPTICA.2.000783>

Alekseev, Alexander 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, M. M. et al. "Statistical analysis of E-jet print parameter effects on Ag-nanoparticle ink droplet size". *Journal of Micromechanics and Microengineering*. 2017. 27(9). <https://doi.org/10.1088/1361-6439/aa7a71>

Kirby, G. et al. "Status of the Demonstrator Magnets for the EuCARD-2 Future Magnets Project". *IEEE Transactions on Applied Superconductivity*. 2016. 26(3). <https://doi.org/10.1109/TASC.2016.2528544>

Stumpel, Jelle E. et al. "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. et al. "Strand and cable R&D for fast cycled magnets at CERN". *IEEE Transactions on Applied Superconductivity*. 2011, 21(3 PART 2). 2354-2358. <https://doi.org/10.1109/TASC.2011.2105236>

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



Tainio, J. M. 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. 533. <https://doi.org/10.1016/j.jnoncrsol.2020.119893>

Marinozzi, Vittorio 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. 25(3). <https://doi.org/10.1109/TASC.2014.2383435>

Nikkinen, Jari 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, Mohammad H., Sofia Suomala, and Juha Toivonen. "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. et al. "Suitability of bundle approximation in AC loss analysis of NbTi wires: Simulations and experiment". *IEEE Transactions on Applied Superconductivity*. 2015. 25(3). <https://doi.org/10.1109/TASC.2014.2376184>

Salmi, Tiina 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. 27(4). <https://doi.org/10.1109/TASC.2017.2651386>

Goh, Jing Qiang and Jaakko Akola. "Superatom Model for Ag-S Nanocluster with Delocalized Electrons". *Journal of Physical Chemistry C*. 2015, 119(36). 21165-21172. <https://doi.org/10.1021/acs.jpcc.5b05824>

Orsila, Lasse et al. "Supercontinuum generation as a signal amplifier". *Optica*. 2015, 2(8). 757-764. <https://doi.org/10.1364/OPTICA.2.000757>

Julku, A. et al. "Superfluid weight and Berezinskii-Kosterlitz-Thouless transition temperature of twisted bilayer graphene". *Physical Review B*. 2020. 101(6). <https://doi.org/10.1103/PhysRevB.101.060505>

Rondin, L. et al. "Surface-induced charge state conversion of nitrogen-vacancy defects in nanodiamonds". *Physical Review B*. 2010. 82(11). <https://doi.org/10.1103/PhysRevB.82.115449>

Koskela, Jenni E. 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, 116(3). 2363-2370. <https://doi.org/10.1021/jp210706n>

Wang, Q. 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. 88(23). <https://doi.org/10.1103/PhysRevB.88.235125>

Wu, Han et al. "Temporal ghost imaging using wavelength conversion and two-color detection". *Optica*. 2019, 6(7). 902-906. <https://doi.org/10.1364/OPTICA.6.000902>

Bajas, H. et al. "Test results of the LARP HQ02b magnet at 1.9 K". *IEEE Transactions on Applied Superconductivity*. 2015. 25(3). <https://doi.org/10.1109/TASC.2014.2378375>

DiMarco, J. et al. "Test Results of the LARP Nb<sub>3</sub>Sn Quadrupole HQ03a". *IEEE Transactions on Applied Superconductivity*. 2016. 26(4). <https://doi.org/10.1109/TASC.2016.2528283>

Tommasini, Davide et al. "The 16 T Dipole Development Program for FCC". *IEEE Transactions on Applied Superconductivity*. 2017. 27(4). <https://doi.org/10.1109/TASC.2016.2634600>

Kaunisto, Kimmo 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, 44(8). 9338-9346. <https://doi.org/10.1016/j.ceramint.2018.02.146>

Goyos-Ball, Lidia 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, 44(8). 9472-9478. <https://doi.org/10.1016/j.ceramint.2018.02.164>

Rossi, L. et al. "The EuCARD-2 future magnets European collaboration for accelerator-quality HTS magnets". *IEEE Transactions on Applied Superconductivity*. 2015. 25(3). <https://doi.org/10.1109/TASC.2014.2364215>

Rossi, Lucio 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. 28(3). <https://doi.org/10.1109/TASC.2017.2784357>

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

Valkealahti, Seppo and David O. Welch. "Theoretical studies of structural properties of the high-T<sub>c</sub> superconductor Y<sub>1</sub>Ba<sub>2</sub>Cu<sub>3</sub>O<sub>7-x</sub>". *Physica C: Superconductivity and its Applications*. 1989, 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, Alexander et al. "The red, purple and blue modifications of polymeric unsymmetrical hydroxyalkadiynyl-N-arylcarbamate derivatives in Langmuir-Schaefer films". *Thin Solid Films*. 2016, 612. 463-471. <https://doi.org/10.1016/j.tsf.2016.06.044>

Kylänpää, I. et al. "Thermal effects on the Wigner localization and Friedel oscillations in many-electron nanowires". *Physical Review B*. 2016. 94(11). <https://doi.org/10.1103/PhysRevB.94.115417>

Sorianello, V. et al. "Thermal evaporation of Ge on Si for near infrared detectors: Material and device characterization". *Microelectronic Engineering*. 2011, 88(4). 526-529. <https://doi.org/10.1016/j.mee.2010.09.024>

Sorianello, V. et al. "Thermally evaporated single-crystal Germanium on Silicon". *Thin Solid Films*. 2011, 519(22). 8037-8040. <https://doi.org/10.1016/j.tsf.2011.06.023>

Soltani, I. et al. "Thermal, structural and optical properties of Er<sup>3+</sup> doped phosphate glasses containing silver nanoparticles". *Journal of Non-Crystalline Solids*. 2016, 438. 67-73. <https://doi.org/10.1016/j.jnoncrysol.2015.12.022>

Borah, Dipu et al. "The sensitivity of random polymer brush-lamellar polystyrene-b-polymethylmethacrylate block copolymer systems to process conditions". *Journal of Colloid and Interface Science*. 2013, 393(1). 192-202. <https://doi.org/10.1016/j.jcis.2012.10.070>

Iliopoulos, Konstantinos et al. "Third order nonlinear optical response of TTF-based molecular corners". *Nonlinear Optics, Quantum Optics*. 2012, 43(1-4). 205-212.

Laudyn, Urszula A. et al. "Three-color vector nematicon". *Photonics Letters of Poland*. 2017, 9(2). 36-38. <https://doi.org/10.4302/plp.v9i2.718>

van Nugteren, Jeroen et al. "Towards REBCO 20T+ Dipoles for Accelerators". *IEEE Transactions on Applied Superconductivity*. 2018. 28(4). <https://doi.org/10.1109/TASC.2018.2820177>

Giammarco, James et al. "Towards universal enrichment nanocoating for IR-ATR waveguides". *Chemical Communications*. 2011, 47(32). 9104-9106. <https://doi.org/10.1039/c1cc12780b>

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

Hongisto, M. et al. "Transparent Yb<sup>3+</sup> doped phosphate glass-ceramics". *Ceramics International*. 2020. <https://doi.org/10.1016/j.ceramint.2020.01.121>

Edwards, Thomas Edward James et al. "Transverse deformation of a lamellar TiAl alloy at high temperature by in situ microcompression". *Acta Materialia*. 2019, 166. 85-99. <https://doi.org/10.1016/j.actamat.2018.11.050>

Huda, Md Nurul et al. "Tuneable topological domain wall states in engineered atomic chains". *npj Quantum Materials*. 2020. 5(1). <https://doi.org/10.1038/s41535-020-0219-3>

Kulju, S. et al. "Tuning electronic properties of graphene heterostructures by amorphous-to-crystalline phase transitions". *Physical Review B*. 2016. 93(19). <https://doi.org/10.1103/PhysRevB.93.195443>

Javanainen, Matti 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, Rahul et al. "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. et al. "Ultrahigh-pressure form of Si O<sub>2</sub> glass with dense pyrite-type crystalline homology". *Physical Review B*. 2019. 99(4). <https://doi.org/10.1103/PhysRevB.99.045153>

Lång, J. J K 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, 90(4). 1-9. <https://doi.org/10.1103/PhysRevB.90.045312>

Ruuskanen, Janne, Antti Stenvall and Valteri Lahtinen. "Utilizing triangular mesh with MMEV to study hysteresis losses of round superconductors obeying critical state model". *IEEE Transactions on Applied Superconductivity*. 2015. 25(3). <https://doi.org/10.1109/TASC.2014.2365408>

Pavelescu, E. M. et al. "Very high dose electron irradiation effects on photoluminescence from GaInNAs/GaAs quantum wells grown by molecular beam epitaxy". *Optical Materials*. 2017, 64. 361-365. <https://doi.org/10.1016/j.optmat.2016.12.007>

Izdebskaya, Yana et al. "Vortex stabilization by means of spatial solitons in nonlocal media". *Journal of Optics*. 2016. 18(5). <https://doi.org/10.1088/2040-8978/18/5/054006>

Heydari, Golrokh et al. "Wetting hysteresis induced by temperature changes: Supercooled water on hydrophobic surfaces". *Journal of Colloid and Interface Science*. 2016, 468. 21-33. <https://doi.org/10.1016/j.jcis.2016.01.040>

Akbari, M. et al. "Toward Graphene-Based Passive UHF RFID Textile Tags: A Reliability Study". *IEEE Transactions on Device and Materials Reliability*. 2016, 16(3). 429-431. <https://doi.org/10.1109/TDMR.2016.2582261>

Assanto, Gaetano. "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, Zhengqian et al. "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, Juejun et al. "Special Issue: Mid-infrared optical materials and their device applications". *Optical Materials Express*. 2018. 8(7).

Luo, Zhengqian et al. "Special Issue: Novel Optical and Photonic Devices based on 2D Materials". *Optical Materials Express*. 2020. 10(6).

Genty, Goëry, Ari T. Friberg and Jari Turunen "Coherence of Supercontinuum Light". *Progress in Optics*. Progress in Optics. Elsevier. 2016. <https://doi.org/10.1016/bs.po.2015.10.002>

Kantola, Emmi et al. "1180nm VECSEL with 50 W output power". *Proceedings of SPIE - The International Society for Optical Engineering*. SPIE. 2015. <https://doi.org/10.1117/12.2079480>

Kosunen, Marko 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". *2017 IEEE International Solid-State Circuits Conference, ISSCC 2017*. IEEE. 2017, 224-225. <https://doi.org/10.1109/ISSCC.2017.7870342>

Viheriälä, Jukka et al. "1.3 $\mu$ m U-bend traveling wave SOA devices for high efficiency coupling to silicon photonics". and Reed, Graham T. Knights, Andrew P. (editors). *Silicon Photonics XIV*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE, IEEE. 2019. <https://doi.org/10.1117/12.2505935>

Mereuta, Alexandru et al. "1.55- $\mu$ m wavelength wafer-fused OP-VECSELs in flip-chip configuration". Keller, Ursula (ed.). *Vertical External Cavity Surface Emitting Lasers (VECSELs) IX*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE, IEEE. 2019. <https://doi.org/10.1117/12.2508342>

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

Yadav, Amit et al. "405-nm pumped Ce<sup>3+</sup>-doped silica fiber for broadband fluorescence from cyan to red". and Digonnet, Michel J. F. Jiang, Shibin (editors). *Optical Components and Materials XVI*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE, IEEE. 2019. <https://doi.org/10.1117/12.2509599>

Wang, Yicheng et al. "73-fs SESAM mode-locked Tm,Ho:CNGG laser at 2061 nm". and Clarkson, W. Andrew Shori, Ramesh K. (editors). *Solid State Lasers XXIX: Technology and Devices*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE. 2020. <https://doi.org/10.1117/12.2548180>

Voronin, V. et al. "Action recognition using the 3D dense microblock difference". *Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II*. Proceedings of SPIE. SPIE. 2018. <https://doi.org/10.1117/12.2326801>

Berger, Paul R. et al. "Advancements in Solution Processable Devices using Metal Oxides For Printed Internet-of-Things Objects". *2019 Electron Devices Technology and Manufacturing Conference, EDTM 2019*. IEEE. 2019, 160-162. <https://doi.org/10.1109/EDTM.2019.8731322>

Moradi, Elham et al. "Advances in implantable and wearable antennas for wireless brain-machine interface systems". *2014 United States National Committee of URSI National Radio Science Meeting, USNC-URSI NRSM 2014*. Institute of Electrical and Electronics Engineers Inc. 2014. <https://doi.org/10.1109/USNC-URSI-NRSM.2014.6928137>

Qu, Yang, Juha Pekka Soininen, and Jari Nurmi "A genetic algorithm for scheduling tasks onto dynamically reconfigurable hardware". *2007 IEEE International Symposium on Circuits and Systems*. 2007, 161-164. <https://doi.org/10.1109/ISCAS.2007.378246>

Sand, Antti and Ismo Rakkolainen "A hand-held immaterial volumetric display". *Proceedings of SPIE-IS and T Electronic Imaging - Stereoscopic Displays and Applications XXV*. SPIE. 2014. <https://doi.org/10.1117/12.2035280>

Gumenyuk, R. et al. "All-fiber, high-power, picosecond Yb double clad tapered fiber amplifier". *Proceedings - 2014 International Conference Laser Optics, LO 2014*. IEEE. 2014. <https://doi.org/10.1109/LO.2014.6886471>

Kerst, Thomas and Juha Toivonen "Alpha radiation induced luminescence in solar blind spectral region". *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, Hoy My et al. "A membrane external-cavity surface-emitting laser (MECSEL) with emission around 825 nm". Hastie, Jennifer E. (ed.). *Vertical External Cavity Surface Emitting Lasers (VECSELs) X*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE. 2020. <https://doi.org/10.1117/12.2545980>

Rubel, Aleksey S., Vladimir V. Lukin, and Karen Egiazarian "A method for predicting DCT-based denoising efficiency for grayscale images corrupted by AWGN and additive spatially correlated noise". *Proceedings of SPIE - The International Society for Optical Engineering*. SPIE. 2015. <https://doi.org/10.1117/12.2082533>

Beck, Sungho et al. "A multi-band WCDMA SAW-less receivers with frequency selective feedback loop". *54th IEEE International Midwest Symposium on Circuits and Systems, MWSCAS 2011*. 2011. <https://doi.org/10.1109/MWSCAS.2011.6026387>

Filippov, Valery et al. "Anisotropic ultra-large mode area Yb-doped tapered double clad fiber for ultrafast amplifiers". *Advanced Solid State Lasers 2017: Nagoya, Aichi Japan 1-5 October 2017*. The Optical Society; OSA. 2017. <https://doi.org/10.1364/ASSL.2017.JTu2A.51>

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

Le, Taoran et al. "A novel strain sensor based on 3D printing technology and 3D antenna design". *2015 IEEE 65th Electronic Components and Technology Conference, ECTC 2015*. Institute of Electrical and Electronics Engineers Inc. 2015, 981-986. <https://doi.org/10.1109/ECTC.2015.7159714>

Moradi, E. et al. "Antenna design considerations for far field and near field wireless body-centric systems". *ICCEM 2015 - 2015 IEEE International Conference on Computational Electromagnetics*. The Institute of Electrical and Electronics Engineers, Inc. 2015, 59-60. <https://doi.org/10.1109/COMPEN.2015.7052555>

Battisti, F. et al. "A perceptual quality metric for high-definition stereoscopic 3D video". *Image Processing: Algorithms and Systems XIII*. SPIE Conference Proceedings. SPIE. 2015. <https://doi.org/10.1117/12.2086901>

Jaakkola, H. et al. "Artificial intelligence yesterday, today and tomorrow"., Skala, Karolj, Car, Zeljka, Pale, Predrag, Huljenic, Darko, Janjic, Matej, Koricic, Marko, Sruk, Vlado, Ribaric, Slobodan Grbac, Tihana Galinac Butkovic, Zeljko Cicin-Sain, Marina Skvorc, Dejan Mauher, Mladen Babic, Snjezana Gros, Stjepan Vrdoljak, Boris Tijan, Edvard (editors). *2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings*. IEEE. 2019, 860-867. <https://doi.org/10.23919/MIPRO.2019.8756913>

Kariniemi, H. et al. "ATM switch for 2.488 Gbit/s CATV network on FPGA with a high-throughput buffering architecture". *Midwest Symposium on Circuits and Systems*. 2002. <https://doi.org/10.1109/MWSCAS.2002.1186814>

Aho, Timo et al. "Back Reflector with Diffractive Gratings for Light-Trapping in Thin-Film III-V Solar Cells". *2019 European Space Power Conference (ESPC)*. IEEE. 2019. <https://doi.org/10.1109/ESPC47532.2019.9049262>

Ukkonen, Leena et al. "Backscattering-based wireless communication and power transfer to small biomedical implants". and Gray, Bonnie L. Becker, Holger (editors). *Microfluidics, BioMEMS, and Medical Microsystems XVIII*. Progress in Biomedical Optics and Imaging - Proceedings of SPIE. SPIE. 2020. <https://doi.org/10.1117/12.2552183>

Zakeri, Faezeh Sadat et al. "Benchmarking of several disparity estimation algorithms for light field processing"., Bazeille, Stephane Verrier, Nicolas Cudel, Christophe (editors). *Fourteenth International Conference on Quality Control by Artificial Vision*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE, IEEE. 2019. <https://doi.org/10.1117/12.2521747>

Piccardi, Armando et al. "Bistable optical propagation in nematic liquid crystals". *Nonlinear Photonics, NP 2014*. Optical Society of America OSA. 2014.

Lukin, Vladimir V. et al. "Combining full-reference image visual quality metrics by neural network". *Proceedings of SPIE - The International Society for Optical Engineering*. SPIE. 2015. <https://doi.org/10.1117/12.2085465>

Kulya, Maksim S. et al. "Complex-domain sparse imaging in terahertz pulse time-domain holography with balance detection". and Sadwick, Laurence P. Yang, Tianxin (editors). *Terahertz, RF, Millimeter, and Submillimeter-Wave Technology and Applications XIII*. Proceedings of SPIE. SPIE. 2020. <https://doi.org/10.1117/12.2549001>

Cho, Chunhee et al. "Compressive strain measurement using RFID patch antenna sensors". *Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2014*. SPIE. 2014. <https://doi.org/10.1117/12.2045122>

Katkovnik, Vladimir et al. "Computational wavelength resolution for in-line lensless holography: Phase-coded diffraction patterns and wavefront group-sparsity". *Digital Optical Technologies 2017*. Proceedings of SPIE. SPIE. 2017. <https://doi.org/10.1117/12.2269327>

Casula, Riccardo et al. "Continuous-wave, cascaded raman laser at 1.3, 1.5, and 1.7  $\mu\text{m}$ ". *The European Conference on Lasers and Electro-Optics, CLEO\_Europe 2017*. Optics InfoBase Conference Papers. OSA - The Optical Society. 2017.

Vainio, Markku "Continuous-wave optical parametric oscillators for mid-infrared spectroscopy". and Schunemann, Peter G. Schepler, Kenneth L. (editors). *Nonlinear Frequency Generation and Conversion: Materials and Devices XIX*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE. 2020. <https://doi.org/10.1117/12.2548711>

Nejadsattari, F. et al. "Cyclic quantum walks: Photonic realization and decoherence analysis"., Hemmer, Philip R. Migdall, Alan L. Hasan, Zameer UI (editors). *Advanced Optical Techniques for Quantum Information, Sensing, and Metrology*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE. 2020. <https://doi.org/10.1117/12.2546566>

Voronin, V. V. et al. "Depth map occlusion filling and scene reconstruction using modified exemplar-based inpainting". *Image Processing: Algorithms and Systems XIII*. SPIE Conference Proceedings. SPIE. 2015. <https://doi.org/10.1117/12.2076506>

Yi, Xiaohua et al. "Design and simulation of a slotted patch antenna sensor for wireless strain sensing". *Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security 2013*. 2013. <https://doi.org/10.1117/12.2009233>

Chen, Xiaochen et al. "Design, Fabrication, and Wireless Evaluation of a Passive 3D-printed Moisture Sensor on a Textile Substrate". *2019 Photonics and Electromagnetics Research Symposium - Spring, PIERS-Spring 2019 - Proceedings*. Progress in Electromagnetics Research Symposium. IEEE. 2019, 1027-1030. <https://doi.org/10.1109/PIERS-Spring46901.2019.9017301>

Pippola, Juha, Tuomas Marttila and Laura Frisk "Development of dust test method for motor drives". *2017 IMAPS Nordic Conference on Microelectronics Packaging, NordPac 2017*. IEEE. 2017, 43-46. <https://doi.org/10.1109/NORDPAC.2017.7993161>

- Fang, Cheng Yi et al. "Development of efficient electrically pumped nanolasers based on InAlGaAs tunnel junction". *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. et al. "Dilute nitride SOAs for high-speed data processing in variable temperature conditions". *Optical Fiber Communication Conference, OFC 2015*. OSA - The Optical Society. 2015.
- Perumbilavil, S. et al. "Directional random laser by combining cavity-less lasing and spatial solitons in liquid crystals". *Nonlinear Photonics, NP 2018*. OSA - The Optical Society. 2018. <https://doi.org/10.1364/NP.2018.NpW2C.4>
- Cakmakyapan, Semih et al. "Directional selectivity through the subwavelength slit in metallic gratings". *2011 Conference on Lasers and Electro-Optics: Laser Science to Photonic Applications, CLEO 2011*. 2011.
- Isotalo, Tero J. and Tapio Niemi "Dots-on-the-fly electron beam lithography". Bencher, Christopher (ed.). *SPIE Proceedings: Alternative Lithographic Technologies VIII*. Proceedings of SPIE. SPIE. 2016. <https://doi.org/10.1117/12.2219136>
- Hallman, Lauri et al. "Double-asymmetric-structure 1.5  $\mu$  m high power laser diodes". *Proceedings of the 2019 IEEE High Power Diode Lasers and Systems Conference, HPD 2019 - Co-located with Photonex 2019*. IEEE. 2019, 19-20. <https://doi.org/10.1109/HPD48113.2019.8938671>
- Kahle, Hermann et al. "Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region". *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE. 2019. <https://doi.org/10.23919/CLEO.2019.8749958>
- Stoykova, Elena et al. "Dynamic laser speckle metrology with binarization of speckle patterns". *19th International Conference and School on Quantum Electronics: Laser Physics and Applications*. Proceedings of SPIE. SPIE. 2017. <https://doi.org/10.1117/12.2262330>
- Mehmood, Adnan et al. "Eco-friendly flexible wireless platforms by 3D printing pen". *2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings*. 2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE. 2019, 2422-2425. <https://doi.org/10.1109/PIERS-Fall48861.2019.9021887>
- Mostofizadeh, M. et al. "Effect of Epoxy Flux Underfill on Thermal Cycling Reliability of Sn-8Zn-3Bi Lead-Free Solder in a Sensor Application". *Proceedings - ECTC 2016: 66th Electronic Components and Technology Conference*. IEEE. 2016, 2169-2175. <https://doi.org/10.1109/ECTC.2016.209>
- Khan, Zahangir et al. "Embroidered and e-textile conductors embedded inside 3D-printed structures". *2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings*. IEEE. 2019, 1675-1680. <https://doi.org/10.1109/PIERS-Fall48861.2019.9021681>
- Le, Taoran et al. "Enhanced-performance wireless conformal "smart skins" utilizing inkjet-printed carbon-nanostructures". *Proceedings - Electronic Components and Technology Conference*. Institute of Electrical and Electronics Engineers Inc. 2014, 769-774. <https://doi.org/10.1109/ECTC.2014.6897372>
- Farooq, A. et al. "Evaluating transparent liquid screen overlay as a haptic conductor: Method of enhancing touchscreen based user interaction by a transparent deformable liquid screen overlay". *2015 IEEE SENSORS - Proceedings*. Institute of Electrical and Electronics Engineers Inc. 2015. <https://doi.org/10.1109/ICSENS.2015.7370186>
- Zia, Nouman et al. "Fabrication and characterization of broadband superluminescent diodes for 2  $\mu$ m wavelength". *Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XX*. Proceedings of SPIE. SPIE. 2016. <https://doi.org/10.1117/12.2209720>

- He, Han et al. "Fabrication and performance evaluation of 3D-printed graphene passive UHF RFID tags on cardboard". *2017 Progress in Electromagnetics Research Symposium - Spring, PIERS 2017*. IEEE. 2017, 3322-3325. <https://doi.org/10.1109/PIERS.2017.8262330>
- Chen, X. et al. "Fabrication and reliability evaluation of passive UHF RFID T-shirts". *2018 IEEE International Workshop on Antenna Technology, iWAT2018 - Proceedings*. IEEE. 2018, 1-4. <https://doi.org/10.1109/IWAT.2018.8379146>
- Khan, Zahangir et al. "Fabrication Challenges in Embedding of Components and Embroidered Conductors into 3D-printed Textile Electronics Structures". *2019 Photonics and Electromagnetics Research Symposium - Spring, PIERS-Spring 2019 - Proceedings*. Progress in Electromagnetics Research Symposium. IEEE. 2019, 1372-1377. <https://doi.org/10.1109/PIERS-Spring46901.2019.9017223>
- Yadav, A. et al. "Fluorescence bandwidth of 280nm from broadband Ce<sup>3+</sup>-doped silica fiber pumped with blue laser diode". *2018 International Conference Laser Optics (ICLO)*. IEEE. 2018, 133-133. <https://doi.org/10.1109/LO.2018.8435861>
- Abdallah, Zeina et al. "Frequency Comb Generation in a Continuous-Wave Pumped Second-Order Nonlinear Waveguide Resonator". *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE. 2019. <https://doi.org/10.23919/CLEO.2019.8750403>
- Kantola, Emmi et al. "Frequency-doubled VECSEL employing a Volume Bragg Grating for linewidth narrowing". *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, Emmi et al. "Frequency-doubled wafer-fused 638 nm VECSEL with an output power of 5.6 W". *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, Lorenzo et al. "Germanium-on-glass solar cells". *8th IEEE International Conference on Group IV Photonics, GFP 2011*. 2011, 255-257. <https://doi.org/10.1109/GROUP4.2011.6053781>
- Ledentsov, N. N. et al. "Green (In,Ga,Al)P-GaP light-emitting diodes grown on high-index GaAs surfaces". *Proceedings of SPIE: Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XIX*. SPIE. 2015. <https://doi.org/10.1117/12.2083953>
- Leinonen, Tomi et al. ">8W GaInNAs VECSEL emitting at 615 nm". *Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) V*. SPIE. 2015. <https://doi.org/10.1117/12.2079162>
- Mateos, Xavier et al. "Highly-efficient Ho:KY(WO4)2 thin-disk lasers at 2.06 μm". *Pacific-Rim Laser Damage 2018: Optical Materials for High-Power Lasers*. Proceedings of SPIE. SPIE, IEEE. 2018. <https://doi.org/10.1117/12.2316822>
- Zia, Nouman et al. "High performance GaSb superluminescent diodes for tunable light source at 2 μm and 2.55 μm". *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)
- Vihieriälä, Jukka et al. "High-power 1550 nm tapered DBR lasers fabricated using soft UV-nanoimprint lithography". *High-Power Diode Laser Technology and Applications XIV*. SPIE Conference Proceedings. SPIE. 2016. <https://doi.org/10.1117/12.2207423>
- Saad-Bin-Alam, Md et al. "High-Q resonance train in a plasmonic metasurface". *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE. 2019. <https://doi.org/10.23919/CLEO.2019.8750206>



Moirangthem, Monali et al. "Hot pen and laser writable photonic polymer films". *Emerging Liquid Crystal Technologies XI*. SPIE. 2016. <https://doi.org/10.1117/12.2209065>

Su, W. et al. "Inkjet-printed dual microfluidic-based sensor integrated system". *2015 IEEE SENSORS - Proceedings*. Institute of Electrical and Electronics Engineers Inc. 2015. <https://doi.org/10.1109/ICSENS.2015.7370300>

Le, Taoran et al. "Inkjet-printed graphene-based wireless gas sensor modules". *2012 IEEE 62nd Electronic Components and Technology Conference, ECTC 2012*. 2012, 1003-1008. <https://doi.org/10.1109/ECTC.2012.6248958>

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

Karioja, Pentti et al. "Integrated multi-wavelength mid-IR light source for gas sensing". *Next-Generation Spectroscopic Technologies XI*. SPIE Conference Proceedings. SPIE, IEEE. 2018. <https://doi.org/10.1117/12.2305712>

Aalto, Timo et al. "Integrating III-V, Si, and polymer waveguides for optical interconnects: RAPIDO". *Optical Interconnects XVI*. Proceedings of SPIE. SPIE. 2016. <https://doi.org/10.1117/12.2214786>

Linna, P., N. Narra, and J. Grönman "Intelligent data service for farmers"., Skala, Karolj, Car, Zeljka, Pale, Predrag, Huljenic, Darko, Janjic, Matej, Koracic, Marko, Struk, Vlado, Ribaric, Slobodan Grbac, Tihana Galinac Butkovic, Zeljko Cicin-Sain, Marina Skvorc, Dejan Mauher, Mladen Babic, Snjezana Gros, Stjepan Vrdoljak, Boris Tijan, Edvard (editors). *2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings*. IEEE. 2019, 1072-1075. <https://doi.org/10.23919/MIPRO.2019.8756688>

Leroy, Henri Arthur et al. "Interstitial photodynamic therapy and glioblastoma: Light fractionation study on a preclinical model: Preliminary results". *Optical Techniques in Neurosurgery, Neurophotonics, and Optogenetics II*. SPIE. 2015. <https://doi.org/10.1117/12.2079347>

Huttunen, Mikko J. et al. "Investigating human skin using deep learning enhanced multiphoton microscopy". *21st International Conference on Transparent Optical Networks, ICTON 2019*. International Conference on Transparent Optical Networks. IEEE. 2019. <https://doi.org/10.1109/ICTON.2019.8840265>

Ozbyay, Ekmel, Irfan Bulu, and Humeyra Caglayan "Labyrinth based left-handed metamaterials and sub-wavelength focusing of electromagnetic waves". *Photonic Crystal Materials and Devices IV*. Proceedings of SPIE. 2006. <https://doi.org/10.1117/12.649548>

Wirdatmadja, Stefanus et al. "Light propagation analysis in nervous tissue for wireless optogenetic nanonetworks". *Optogenetics and Optical Manipulation 2018*. SPIE. 2018. <https://doi.org/10.1117/12.2288786>

Baron, A. et al. "Localization of light at vanishingly small disorder-levels with heavy photons". *2015 Conference on Lasers and Electro-Optics, CLEO 2015*. Optical Society of America OSA. 2015. [https://doi.org/10.1364/CLEO\\_QELS.2015.FW1C.4](https://doi.org/10.1364/CLEO_QELS.2015.FW1C.4)

Frosio, Iuri, Karen Egiazarian and Kari Pulli "Machine learning for adaptive bilateral filtering". *Image Processing: Algorithms and Systems XIII*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE. 2015. <https://doi.org/10.1117/12.2077733>

Chen, Xiaochen et al. "Maintenance-free moisture sensor on dishcloth substrate". *2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings*. IEEE. 2019, 2418-2421. <https://doi.org/10.1109/PIERS-Fall48861.2019.9021487>

- Ye, Changgeng et al. "Measuring bend losses in large-mode-area fibers". *Fiber Lasers XII: Technology, Systems, and Applications*. SPIE. 2015. <https://doi.org/10.1117/12.2076813>
- Kahle, Hermann 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". Keller, Ursula (ed.). *Vertical External Cavity Surface Emitting Lasers (VECSELS) IX*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE, IEEE. 2019. <https://doi.org/10.1117/12.2512111>
- Ye, Changgeng et al. "Mode coupling in few-mode large-mode-area fibers". *Fiber Lasers XI: Technology, Systems, and Applications*. SPIE. 2014. <https://doi.org/10.1117/12.2038575>
- Kantola, J. H. et al. "Molecular dynamics simulations for Xe absorbed in zeolites"., Kaxiras, Efthimios and Joannopoulos, John Vashishta, Priya Kalia, Rajiv K. (editors). *Materials Research Society Symposium - Proceedings*. MATERIALS RESEARCH SOCIETY. 1996, 599-604. <https://doi.org/10.1557/PROC-408-599>
- Korpijärvi, Ville-Markus et al. "Monolithic GaInNAsSb/GaAs VECSEL emitting at 1550 nm". *SPIE conference proceedings*. SPIE. 2015. <https://doi.org/10.1117/12.2077517>
- Sapaev, U. K., D. B. Yusupov, and G. Assanto "Multicolor nonlinear pulse compression by consecutive optical parametric amplification in quasi-phase matched structures". *ICONO 2010: International Conference on Coherent and Nonlinear Optics*. 2011. <https://doi.org/10.1117/12.882887>
- Katkovnik, Vladimir et al. "Multiwavelength surface contouring from phase-coded diffraction patterns". *Unconventional Optical Imaging 2018. Strasbourg, France*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE. 2018. <https://doi.org/10.1117/12.2306127>
- Blanc, Wilfried et al. "Nanoparticles in optical waveguides: A toolbox to promote lasers, amplifiers and sensors". *21st International Conference on Transparent Optical Networks, ICTON 2019*. International Conference on Transparent Optical Networks. IEEE. 2019. <https://doi.org/10.1109/ICTON.2019.8840208>
- Isoaho, Riku et al. "Narrow Bandgap Dilute Nitride Materials for 6-junction Space Solar Cells". *2019 European Space Power Conference (ESPC)*. IEEE. 2019. <https://doi.org/10.1109/ESPC47532.2019.9049263>
- Gumenyuk, Regina et al. "New multisoliton complex in Bi-doped fiber laser operated at 1450 nm". *European Quantum Electronics Conference 2017*. The Optical Society; OSA. 2017.
- Colace, Lorenzo, Andrea Scacchi, and Gaetano Assanto "Noise characterization of Ge/Si photodetectors". *8th IEEE International Conference on Group IV Photonics, GFP 2011*. 2011, 290-292. <https://doi.org/10.1109/GROUP4.2011.6053793>
- Vimieiro, Rodrigo B. et al. "Noise measurements from reconstructed digital breast tomosynthesis"., Schmidt, Taly Gilat Chen, Guang-Hong Bosmans, Hilde (editors). *Medical Imaging 2019: Physics of Medical Imaging*. Progress in Biomedical Optics and Imaging - Proceedings of SPIE. SPIE, IEEE. 2019. <https://doi.org/10.1117/12.2512977>
- Voronin, V. V. et al. "No-reference visual quality assessment for image inpainting". *Image Processing: Algorithms and Systems XIII*. SPIE Conference Proceedings. SPIE. 2015. <https://doi.org/10.1117/12.2076507>
- Le, Taoran et al. "Novel enhancement techniques for ultra-high-performance conformal wireless sensors and 'smart skins' utilizing inkjet-printed graphene". *2013 IEEE 63rd Electronic Components and Technology Conference, ECTC 2013*. 2013, 1640-1643. <https://doi.org/10.1109/ECTC.2013.6575792>

Petit, L. et al. "Novel Er<sup>3+</sup> doped phosphate glass-ceramics for photonics". *ICTON 2017 - 19th International Conference on Transparent Optical Networks*. IEEE COMPUTER SOCIETY PRESS. 2017. <https://doi.org/10.1109/ICTON.2017.8024877>

Daerhan, Daerhan et al. "Novel highly-efficient and misalignment insensitive wireless power transfer systems utilizing Strongly Coupled Magnetic Resonance principles". *Proceedings - Electronic Components and Technology Conference*. Institute of Electrical and Electronics Engineers Inc. 2014, 759-762. <https://doi.org/10.1109/ECTC.2014.6897370>

Radevici, Ivan et al. "Observation of local electroluminescent cooling and identifying the remaining challenges"., Seletskiy, Denis V. Epstein, Richard I. Sheik-Bahae, Mansoor (editors). *Photonic Heat Engines: Science and Applications*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE, IEEE. 2019. <https://doi.org/10.1117/12.2505814>

Stumpel, Jelle E. et al. "Optical and topographic changes in water-responsive patterned cholesteric liquid crystalline polymer coatings". *Proceedings of SPIE: Organic Photonics VI*. Proceedings of SPIE: the International Society for Optical Engineering. SPIE. 2014. <https://doi.org/10.1117/12.2052678>

Fotiadi, Andrei A. et al. "Optical fiber amplifier with spectral compression elements for high-power laser pulse generation". *Nonlinear Optics and its Applications IV*. Proceedings of SPIE. SPIE. 2016. <https://doi.org/10.1117/12.2223637>

Sadiq, Ibrahim et al. "Optical Frequency Comb Photoacoustic Spectroscopy". *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE. 2019. <https://doi.org/10.23919/CLEO.2019.8749688>

Mehmood, Adnan et al. "Passive UHF RFID-based user interface on a wooden surface". *2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings*. IEEE. 2019, 1760-1763. <https://doi.org/10.1109/PIERS-Fall48861.2019.9021441>

Raappana, Marianna et al. "Performance of Solar Cell Grids based on Ag, Au, and Al for Cost-Effective Manufacturing". *2019 European Space Power Conference (ESPC)*. IEEE. 2019. <https://doi.org/10.1109/ESPC.2019.8932002>

Aryal, U. et al. "Persistent luminescent glasses prepared using the direct doping method". *21st International Conference on Transparent Optical Networks, ICTON 2019*. International Conference on Transparent Optical Networks. IEEE. 2019. <https://doi.org/10.1109/ICTON.2019.8840287>

Sahin, Erdem, Ugur Akpinar, and Atanas Gotchev "Phase-coded computational imaging for depth of field extension". *Proceedings - Digital Holography and Three-Dimensional Imaging 2019*. Optical Society of America. 2019.

Filippov, Valery et al. "Picosecond MOPA with ytterbium doped tapered double clad fiber". *Fiber Lasers XIV: Technology and Systems*. Proceedings of SPIE; 10083. SPIE. 2017. <https://doi.org/10.1117/12.2252006>

Borges, Lucas R. et al. "Pipeline for effective denoising of digital mammography and digital breast tomosynthesis". *Medical Imaging 2017: Physics of Medical Imaging*. Progress in biomedical optics and imaging. SPIE. 2017. <https://doi.org/10.1117/12.2255058>

Heikkinen, Juuso et al. "Power and wavelength scaling using semiconductor disk laser - bismuth fiber MOPA systems". Guina, M (ed.). *Vertical External Cavity Surface Emitting Lasers (VECSELs) V*. Proceedings of SPIE. BELLINGHAM: SPIE. 2015. <https://doi.org/10.1117/12.2076805>

Suominen, Olli and Atanas Gotchev "Preserving natural scene lighting by strobe-lit video". *Image Processing: Algorithms and Systems XIII*. SPIE Conference Proceedings. SPIE. 2015. <https://doi.org/10.1117/12.2185013>

Del Cerro, P. Roldan et al. "Processing and Characterization of Bioactive Borosilicate Glasses and Scaffolds with Persistent Luminescence". *2018 20th International Conference on Transparent Optical Networks, ICTON 2018*. Conference proceedings : International Conference on Transparent Optical Networks. IEEE COMPUTER SOCIETY PRESS. 2018. <https://doi.org/10.1109/ICTON.2018.8473916>

Mikkonen, Riikka et al. "Processing of printed silver patterns on an ETFE substrate". *Proceedings - 2018 IMAPS Nordic Conference on Microelectronics Packaging, NORDPAC 2018*. IEEE. 2018, 1-7. <https://doi.org/10.23919/NORDPAC.2018.8423860>

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

Kulya, Maksim S. et al. "Propagation dynamics of ultrabroadband terahertz beams with orbital angular momentum for wireless data transfer"., Dingel, Benjamin B. Tsukamoto, Katsutoshi Mikroulis, Spiros (editors). *Broadband Access Communication Technologies XIV*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE. 2020. <https://doi.org/10.1117/12.2547695>

Kantola, Emmi et al. "Pulsed high-power yellow-orange VECSEL". *Photonics Europe 2014, Semiconductor Lasers and Laser Dynamics VI, April 14-17, 2014, Brussels, Belgium. Proceedings of SPIE*. SPIE Conference Proceedings. SPIE. 2014. <https://doi.org/10.1117/12.2054716>

Guina, Mircea et al. "Quantum-well Laser Emitting at 1.2  $\mu\text{m}$ -1.3  $\mu\text{m}$  Window Monolithically Integrated on Ge Substrate". *43rd European Conference on Optical Communication, ECOC 2017*. IEEE. 2018, 1-3. <https://doi.org/10.1109/ECOC.2017.8345837>

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

Ryczkowski, Piotr et al. "Real-time measurements of nonlinear instabilities in optical fibers". *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, John M. et al. "Real-time measurements of ultrafast instabilities in nonlinear fiber optics: Recent advances". *21st International Conference on Transparent Optical Networks, ICTON 2019*. International Conference on Transparent Optical Networks. IEEE. 2019. <https://doi.org/10.1109/ICTON.2019.8840476>

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

Dejean, Gerald et al. "RFDNA: A wireless authentication system on flexible substrates". *2011 IEEE 61st Electronic Components and Technology Conference, ECTC 2011*. 2011, 1332-1337. <https://doi.org/10.1109/ECTC.2011.5898684>

Suikkola, Jari et al. "Screen-Printed Stretchable Interconnects". *Proceedings - ECTC 2016: 66th Electronic Components and Technology Conference*. IEEE. 2016, 1650-1655. <https://doi.org/10.1109/ECTC.2016.132>

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

Wang, Yicheng et al. "SESAM mode-locked Tm: CALGO laser at 2  $\mu\text{m}$ ". *Advanced Solid State Lasers, ASSL 2015*. Optical Society of America OSA. 2015. <https://doi.org/10.1364/ASSL.2015.AW1A.2>

Saleh, Abba et al. "Short-range supercontinuum based lidar for combustion diagnostics". and Kimata, Masafumi Valenta, Christopher R. (editors). *SPIE Future Sensing Technologies*. Proceedings of SPIE. SPIE, IEEE. 2019. <https://doi.org/10.1117/12.2542720>

Dumitrescu, M. et al. "Simulation of photon-photon resonance enhanced direct modulation bandwidth of DFB lasers". *16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016*. IEEE. 2016, 147-148. <https://doi.org/10.1109/NUSOD.2016.7547075>

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

Frantc, V. A. et al. "Simultaneous binary hash and features learning for image retrieval". *Mobile Multimedia/Image Processing, Security, and Applications 2016*. SPIE Conference Proceedings. SPIE. 2016. <https://doi.org/10.1117/12.2223605>

Kocsis, Péter et al. "Single exposure lensless subpixel phase imaging". and Kress, Bernard C. Schelkens, Peter (editors). *Digital Optical Technologies 2019*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE, IEEE. 2019. <https://doi.org/10.1117/12.2525679>

Slablab, A. et al. "Single KTiOPO4 nanocrystals for nonlinear probing of local optical fields and interaction with a metallic nanostructure". *CLEO/Europe - EQEC 2009 - European Conference on Lasers and Electro-Optics and the European Quantum Electronics Conference*. 2009. <https://doi.org/10.1109/CLEOE-EQEC.2009.5192089>

Hakkarainen, Teemu et al. "Site-controlled InAs Quantum Dots for Plasmonics". *Conference on Lasers and Electro-Optics 2016: QELS\_Fundamental Science*. OSA - The Optical Society. 2016. [https://doi.org/10.1364/CLEO\\_QELS.2016.FM1B.3](https://doi.org/10.1364/CLEO_QELS.2016.FM1B.3)

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

Mathew, S. et al. "Study of second-harmonic generation from CdS nanostructured thin film". *12th International Conference on Fiber Optics and Photonics*. Optical Society of America (OSA). 2014. <https://doi.org/10.1364/PHOTONICS.2014.M4A.46>

Zhao, Yongguang et al. "Sub-100 fs pulse generation from a Tm,Ho: CALYO laser mode-locked by a GaSb-based SESAM at ~2043 nm". *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, Yicheng 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". *Advanced Solid State Lasers 2017: Nagoya, Aichi Japan 1-5 October 2017*. The Optical Society; OSA. 2017. <https://doi.org/10.1364/ASSL.2017.ATu6A.4>

Tomberg, Teemu et al. "Sub-parts-per-trillion sensitivity in trace gas detection by cantilever-enhanced photo-acoustic spectroscopy". *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, Lei et al. "Switchable unidirectional second-harmonic emission through GaAs nanoantennas". and Mitchell, Arnan Rubinsztein-Dunlop, Halina (editors). *AOS Australian Conference on Optical Fibre Technology, ACOFT 2019 and Australian Conference on Optics, Lasers, and Spectroscopy, ACOLS 2019*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE. 2019. <https://doi.org/10.1117/12.2539887>

Qu, Yang et al. "System-level design for partially reconfigurable hardware". *2007 IEEE International Symposium on Circuits and Systems*. 2007, 2738-2741. <https://doi.org/10.1109/ISCAS.2007.378619>

Sautter, J. et al. "Tailoring directional scattering of second-harmonic generation from (111)-GaAs nanoantennas". and Mitchell, Arnan Rubinsztein-Dunlop, Halina (editors). *AOS Australian Conference on Optical Fibre Technology, ACOFT 2019 and Australian Conference on Optics, Lasers, and Spectroscopy, ACOLS 2019*. Proceedings of SPIE - The

International Society for Optical Engineering. SPIE. 2019. <https://doi.org/10.1117/12.2539086>

Henno, J., H. Jaakkola and J. Mäkelä "Teaching for virtual work"., Skala, Karolj, Car, Zeljka, Pale, Predrag, Huljenic, Darko, Janjic, Matej, Korivic, Marko, Sruk, Vlado, Ribaric, Slobodan Grbac, Tihana Galinac Butkovic, Zeljko Cicin-Sain, Marina Skvorc, Dejan Mauher, Mladen Babic, Snjezana Gros, Stjepan Vrdoljak, Boris Tijan, Edvard (editors). *2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings*. IEEE. 2019, 818-826. <https://doi.org/10.23919/MIPRO.2019.8756778>

Selim, Bassant et al. "The effects of I/Q imbalance on wireless communications: A survey". *2016 IEEE 59th International Midwest Symposium on Circuits and Systems (MWSCAS)*. IEEE. 2017. <https://doi.org/10.1109/MWSCAS.2016.7870102>

Caglayan, Humeyra and Ekmel Ozbay "The magical world of metamaterials". *Photonic Materials, Devices, and Applications III*. Proceedings of SPIE. 2009. <https://doi.org/10.1117/12.821407>

Yi, Xiaohua et al. "Thermal effects on a passive wireless antenna sensor for strain and crack sensing". *Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2012*. 2012. <https://doi.org/10.1117/12.914833>

Yi, Xiaohua et al. "Thickness variation study of RFID-based folded patch antennas for strain sensing". *Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2011*. 2011. <https://doi.org/10.1117/12.879868>

Huttunen, Mikko J. et al. "Towards efficient nonlinear plasmonic metasurfaces". *21st International Conference on Transparent Optical Networks, ICTON 2019*. International Conference on Transparent Optical Networks. IEEE. 2019. <https://doi.org/10.1109/ICTON.2019.8840277>

Uusitalo, Topi, Heikki Virtanen and Mihail Dumitrescu "Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers". *16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016*. IEEE. 2016, 79-80. <https://doi.org/10.1109/NUSOD.2016.7547038>

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

Chen, Xiaochen et al. "Two-part stretchable passive UHF RFID textile tags". *2017 Progress in Electromagnetics Research Symposium - Spring, PIERS 2017*. Electromagnetics Academy. 2017, 3318-3321. <https://doi.org/10.1109/PIERS.2017.8262329>

Noronen, Teppo et al. "Ultrafast picosecond MOPA with Yb-doped tapered double clad fiber". *The European Conference on Lasers and Electro-Optics 2017: Munich Germany 25–29 June 2017*. The Optical Society; OSA. 2017.

Noronen, Teppo et al. "Ultra-large mode area single frequency anisotropic MOPA with double clad Yb-doped tapered fiber". *Fiber Lasers XV: Technology and Systems*. Proceedings of SPIE. SPIE, IEEE. 2018. <https://doi.org/10.1117/12.2288942>

Peccianti, Marco et al. "Walking anisotropic spatial solitons and their steering in nematic liquid crystals". *Nonlinear Guided Waves and Their Applications, NLGW 2005*. Optical Society of America OSA. 2005. <https://doi.org/10.1364/NLGW.2005.FA1>

Achimova, E. et al. "Surface topography studied by off-axis digital holography". *Novel Optical Materials and Applications, NOMA 2018*. OSA - The Optical Society. 2018. <https://doi.org/10.1364/NOMA.2018.NoW1J.7>

Viheriälä, Jukka et al. *1180 nm GaInNAs quantum well based high power DBR laser diodes*. 2017.

Blokhin, S. A. et al. *1.3  $\mu\text{m}$  InAs quantum dot semiconductor disk laser*. 2016. <https://doi.org/10.1109/LO.2016.7549727>

Korobko, D. A. et al. *Advanced scheme of amplifier similariton laser*. 2016. <https://doi.org/10.1109/LO.2016.7549889>

Ahmed, Umair et al. *Finite element method incorporating coupled magneto-elastic model for magneto-mechanical energy harvester*. 2017. 2 p.

Kaneda, Yushi et al. *Narrow-linewidth operation of folded VECSEL cavity with twist-mode configuration*. 2018. 2 p. <https://doi.org/10.1364/ASSL.2018.ATH2A.7>

Ustimchik, V. E. et al. *State of polarization in anisotropic tapered fiber with extremely large core diameter*. 2016. <https://doi.org/10.1109/LO.2016.7549956>

Busacca, Alessandro C. et al. "Parametric conversion in micrometer and submicrometer structured ferroelectric crystals by surface poling". *International Journal of Optics*. 2012. 2012. <https://doi.org/10.1155/2012/606892>

Stumpel, Jelle E., Dirk J. Broer and Albertus P H J Schenning. "Stimuli-responsive photonic polymer coatings". *Chemical Communications*. 2014, 50(100). 15839-15848. <https://doi.org/10.1039/c4cc05072j>