

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>

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>

Acar, Erman, Sari Peltonen ja 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>

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>

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

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>

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/pip.3011>

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>

Aho, Antti T. et al. "High-Power 1.5  $\mu\text{m}$  Tapered Distributed Bragg Reflector Laser Diodes for Eye-Safe LIDAR". *IEEE Photonics Technology Letters*. 2020, 32(19). 1249-1252. <https://doi.org/10.1109/LPT.2020.3019845>

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>

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>

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>

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. "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>

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>

Ali-Löyty, 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>

- 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>
- 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>
- 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. "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>
- 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>
- Assanto, Gaetano ja Noel F. Smyth. "Nonlinear guided waves: Preface". *Journal of Nonlinear Optical Physics and Materials*. 2016. 25(4). <https://doi.org/10.1142/S0218863516500417>
- Assanto, Gaetano, Noel F. Smyth ja 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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)

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>

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>

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>

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>

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>

Belahcen, Anouar, Paavo Rasilo ja 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>

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>

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>

Bhalerao, Sagar R. et al. "0.6V threshold voltage thin film transistors with solution processable indium oxide (In<sub>2</sub>O<sub>3</sub>) Channel and Anodized High-κ Al<sub>2</sub>O<sub>3</sub> Dielectric". *IEEE Electron Device Letters*. 2019, 40(7). 1112-1115. <https://doi.org/10.1109/LED.2019.2918492>

Bhalerao, Sagar R., Donald Lupo ja 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>

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>

Bitarafan, Mohammad H., Sofia Suomala, ja 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>

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>

Blokhin, S. A. et al. *1.3 μm InAs quantum dot semiconductor disk laser*. 2016. <https://doi.org/10.1109/LO.2016.7549727>

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>

- 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>
- 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>
- 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>
- 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>
- Bourhis, Kevin et al. "Influence of the P2O5/Al2O3 co-doping on the local environment of erbium ions and on the 1.5  $\mu\text{m}$  quantum efficiency of Er<sup>3+</sup>-borosilicate glasses". *Optical Materials*. 2014, 36(5). 926-931. <https://doi.org/10.1016/j.optmat.2013.12.035>
- 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>
- Bulu, Irfan, Humeyra Caglayan ja 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>
- Bulu, Irfan, Humeyra Caglayan ja 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>
- 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>
- Caglayan, Humeyra ja Ekmel Özbay. "Observation of cavity structures in composite metamaterials". *Journal of Nanophotonics*. 2010. 4(1). <https://doi.org/10.1117/1.3475763>
- Caglayan, Humeyra ja Ekmel Ozbay "The magical world of metamaterials". *Photonic Materials, Devices, and Applications III*. Proceedings of SPIE. 2009. <https://doi.org/10.1117/12.821407>
- Caglayan, H., I. Bulu ja 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>
- 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>
- 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.
- 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>
- 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>

- 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.
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Colace, L., F. Santoni, ja 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>
- Colace, Lorenzo, Andrea Scacchi, ja 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>
- 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>
- 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>
- 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>
- 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>
- 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>

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>

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.

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>

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>

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>

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>

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>

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>

Donmez, O. et al. "Power loss mechanisms in n-type modulation-doped AlGaAs/GaAsBi quantum well heterostructures". *Semiconductor Science and Technology*. 2020. 35(9). <https://doi.org/10.1088/1361-6641/ab94d9>

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>

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>

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>

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>

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>

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>

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>

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)

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>

Ferracin, P. et al. "Development of MQXF: The Nb<sub>3</sub>Sn Low-β Quadrupole for the HiLumi LHC". *IEEE Transactions on Applied Superconductivity*. 2016. 26(4). <https://doi.org/10.1109/TASC.2015.2510508>

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>

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>

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>

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>

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>

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>

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

Frosio, Iuri, Karen Egiazarian ja 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>

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>

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

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>

- 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>
- 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.
- 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>
- Glorieux, Benoit et al. "Better understanding of the role of SiO<sub>2</sub>, P<sub>2</sub>O<sub>5</sub> and Al<sub>2</sub>O<sub>3</sub> on the spectroscopic properties of Yb<sup>3+</sup> doped silica sol-gel glasses". *Journal of Non-Crystalline Solids*. 2018, 482. 46-51. <https://doi.org/10.1016/j.jnoncrysol.2017.12.021>
- 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>
- Goh, Jing Qiang ja 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>
- Goh, Jing-Qiang, Jaakko Akola ja 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>
- 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>
- 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>
- Guina, Mircea et al. "Quantum-well Laser Emitting at 1.2 μm-1.3 μm 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>
- 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>
- 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.
- 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>
- 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>
- 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>
- 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>



Habib, M., E. Ozbay, ja 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>

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>

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)

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>

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>

Hannula, M. et al. "Highly efficient charge separation in model Z-scheme TiO<sub>2</sub>/TiSi<sub>2</sub>/Si photoanode by micropatterned titanium silicide interlayer". *Acta Materialia*. 2019, 174. 237-245. <https://doi.org/10.1016/j.actamat.2019.05.032>

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>

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>

Haußmann, Lukas et al. "Local Mechanical Properties at the Dendrite Scale of Ni-Based Superalloys Studied by Advanced High Temperature Indentation Creep and Micropillar Compression Tests"., Tin, Sammy, Hardy, Mark, Clews, Justin ja Cormier, Jonathan Feng, Qiang Marcin, John O'Brien, Chris Suzuki, Akane (toimittaneet). *Superalloys 2020: Proceedings of the 14th International Symposium on Superalloys*. The Minerals, Metals and Materials Series. Springer. 2020, 273-281. [https://doi.org/10.1007/978-3-030-51834-9\\_26](https://doi.org/10.1007/978-3-030-51834-9_26)

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>

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

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>

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>

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>

- 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>
- Henno, J., H. Jaakkola ja J. Mäkelä "Teaching for virtual work"., Skala, Karolj, Car, Zeljka, Pale, Predrag, Huljenic, Darko, Janjic, Matej, Koracic, 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 (toimittaneet). *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>
- 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>
- 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>
- Hu, Juejun et al. "Special Issue: Mid-infrared optical materials and their device applications". *Optical Materials Express*. 2018. 8(7).
- 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>
- 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.jnoncrsol.2015.03.026>
- Hütner, Johanna, Touko Herranen, ja 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>
- 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>
- 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>
- 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>
- Iliopoulos, Konstantinos et al. "Third order nonlinear optical response of TTF-based molecular corners". *Nonlinear Optics, Quantum Optics*. 2012, 43(1-4). 205-212.
- 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>
- 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>
- 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>

Isotalo, Tero J. ja Tapio Niemi "Dots-on-the-fly electron beam lithography". Bencher, Christopher (toim.). *SPIE Proceedings: Alternative Lithographic Technologies VIII*. Proceedings of SPIE. SPIE. 2016. <https://doi.org/10.1117/12.2219136>

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>

Jaakkola, H. et al. "Artificial intelligence yesterday, today and tomorrow"., Skala, Karolj, Car, Zeljka, Pale, Predrag, Huljenic, Darko, Janjic, Matej, Koracic, 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 (toimittaneet). *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>

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>

Järvenhaara, J. et al. "A Two-Stage LNA Design for 28GHz Band of 5G on 45nm CMOS". *2020 IEEE 63rd International Midwest Symposium on Circuits and Systems, MWSCAS 2020 - Proceedings*. Midwest Symposium on Circuits and Systems. IEEE. 2020, 957-961. <https://doi.org/10.1109/MWSCAS48704.2020.9184697>

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>

Jisha, Chandroth P. ja 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>

Joost, Urmas et al. "Reversible photodoping of TiO2 nanoparticles". *Chemistry of Materials*. 2018, 30(24). 8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>

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>

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>

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 (toim.). *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>

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>

Kalikka, J., J. Akola ja R. O. Jones. "Crystallization processes in the phase change material Ge2 Sb2 Te5: Unbiased density functional/molecular dynamics simulations". *Physical Review B*. 2016. 94(13). <https://doi.org/10.1103/PhysRevB.94.134105>

Kalimeri, Maria, Philippe Derreumaux ja 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.jnoncrsol.2014.07.005>

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

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>

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>

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>

Kantola, J. H. et al. "Molecular dynamics simulations for Xe absorbed in zeolites"., Kaxiras, Efthimios ja Joannopoulos, John Vashishta, Priya Kalia, Rajiv K. (toimittaneet). *Materials Research Society Symposium - Proceedings*. MATERIALS RESEARCH SOCIETY. 1996, 599-604. <https://doi.org/10.1557/PROC-408-599>

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)

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>

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>

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>

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>

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>

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>

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>

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>

Kerst, Thomas ja 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)

Khan, M. Nuruzzaman ja 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>

Khan, M. Nuruzzaman ja 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 ja 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>

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>

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>

Khorramdel, Behnam, Altti Torkkeli, ja 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>

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>

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>

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>

Klauck, F. et al. "Observation of PT-symmetric quantum interference". *Nature Photonics*. 2019.  
<https://doi.org/10.1038/s41566-019-0517-0>

Kleiven, David ja 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>

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

Koivusaari, K. Jarmo, Tapio T. Rantala ja 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)

- 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>
- 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>
- Korobko, D. A. et al. *Advanced scheme of amplifier similariton laser*. 2016. <https://doi.org/10.1109/LO.2016.7549889>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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 (toimittaneet). *Broadband Access Communication Technologies XIV*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE. 2020. <https://doi.org/10.1117/12.2547695>
- Kulya, Maksim S. et al. "Complex-domain sparse imaging in terahertz pulse time-domain holography with balance detection". ja Sadwick, Laurence P. Yang, Tianxin (toimittaneet). *Terahertz, RF, Millimeter, and Submillimeter-Wave Technology and Applications XIII*. Proceedings of SPIE. SPIE. 2020. <https://doi.org/10.1117/12.2549001>

- 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>
- 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>
- Kurka, M. et al. "GaInAsSb/AlGa(In)AsSb type I quantum wells emitting in 3 $\mu$ m range for application in superluminescent diodes". *Optical Materials*. 2019, 91. 274-278. <https://doi.org/10.1016/j.optmat.2019.03.036>
- 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>
- 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>
- 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>
- 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>
- Lahtinen, Valtteri ja 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>
- Lampio, Kaj ja Reijo Karvinen. "Optimization of convectively cooled heat sinks". *Microelectronics Reliability*. 2017, 79. 473-479. <https://doi.org/10.1016/j.microrel.2017.06.011>
- Lång, J. J K et al. "Unveiling and controlling the electronic structure of oxidized semiconductor surfaces: Crystalline oxidized InSb(100)(1  $\times$  2)-O: Crystalline oxidized InSb(100)(1  $\times$  2)-O". *Physical Review B*. 2014, 90(4). 1-9. <https://doi.org/10.1103/PhysRevB.90.045312>
- 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>
- 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>
- Laurila, Mika-Matti, Ayat Soltani, ja 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>
- Laurila, Mika-Matti, Behnam Khorramdel, ja 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>
- 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>
- 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>

- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Linna, P., N. Narra, ja J. Grönman "Intelligent data service for farmers"., 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 (toimittaneet). *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>
- Liu, Xiongying, Yi Fan ja 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>
- Lopez-Iscoa, Pablo et al. "Effect of the addition of Al<sub>2</sub>O<sub>3</sub>, TiO<sub>2</sub> and ZnO on the thermal, structural and luminescence properties of Er<sup>3+</sup>-doped phosphate glasses". *Journal of Non-Crystalline Solids*. 2017, 460. 161-168. <https://doi.org/10.1016/j.jnoncrysol.2017.01.030>
- Lorin, Clement et al. "Design of a Nb3Sn 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>



- 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>
- 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>
- Luo, Zhengqian et al. "Special Issue: Novel Optical and Photonic Devices based on 2D Materials". *Optical Materials Express*. 2020. 10(6).
- 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>
- 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>
- 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>
- Ma, L. ja A. K. Ray. "An ab initio study of PuO<sub>2±0.25</sub>, UO<sub>2±0.25</sub>, and U<sub>0.5</sub>Pu<sub>0.5</sub>O<sub>2±0.25</sub>". *European Physical Journal B*. 2011, 81(1). 103-113. <https://doi.org/10.1140/epjbe/2011-10759-0>
- Ma, Li, Kari Laasonen, ja 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>
- 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>
- Mäkelä, J. et al. "Effects of thinning and heating for TiO<sub>2</sub>/AlInP junctions". *Journal of Electron Spectroscopy and Related Phenomena*. 2015, 205. 6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>
- 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 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>
- 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. "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>
- 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>
- 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>

- 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>
- Mateos, Xavier et al. "Highly-efficient Ho:KY(WO<sub>4</sub>)<sub>2</sub> 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>
- 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>
- 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>
- 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>
- Mereuta, Alexandru et al. "1.55-μm wavelength wafer-fused OP-VECSELs in flip-chip configuration". Keller, Ursula (toim.). *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>
- Mikkonen, Riikka ja 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Mojica, Edson, Said Pertuz ja 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>
- 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>
- 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 NRSRM 2014*. Institute of Electrical and Electronics Engineers Inc. 2014. <https://doi.org/10.1109/USNC-URSI-NRSRM.2014.6928137>

- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Nair, Devi Geetha, Paavo Rasilo ja 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>
- Nate, Kunal ja 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>
- 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>
- 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>

Nejadsattari, F. et al. "Cyclic quantum walks: Photonic realization and decoherence analysis"., Hemmer, Philip R. Migdall, Alan L. Hasan, Zameer UI (toimittaneet). *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>

Nieminen, Arttu, Andrea Marini, ja 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>

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>

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>

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>

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>

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>

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>

Okun, Oleksandr, Yurii Kravchenko ja 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>

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

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

Ozbay, Ekmel, Irfan Bulu, ja 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>

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>

Özbay, Ekmel, Irfan Bulu, ja 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>

- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Petelenz, Piotr ja 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>
- 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>
- Phung, Hoy My et al. "A membrane external-cavity surface-emitting laser (MECSEL) with emission around 825 nm". Hastie, Jennifer E. (toim.). *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>
- Piccardi, Armando et al. "Bistable optical propagation in nematic liquid crystals". *Nonlinear Photonics, NP 2014*. Optical Society of America OSA. 2014.
- Piccardi, Armando, Stefania Residori, ja Gaetano Assanto. "Nonlocal soliton scattering in random potentials". *Journal of Optics*. 2016. 18(7). <https://doi.org/10.1088/2040-8978/18/7/07LT01>
- Pippola, Juha, Tuomas Marttila ja 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>
- Pirkkalainen, Herkko, Jarmo Elovaara ja 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.
- 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>

Poutala, Arto, Tuomas Kovanen ja 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>

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>

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>

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>

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>

Qu, Yang, Juha Pekka Soininen, ja 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>

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>

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>

Radevici, Ivan et al. "Observation of local electroluminescent cooling and identifying the remaining challenges"., Seletskiy, Denis V. Epstein, Richard I. Sheik-Bahae, Mansoor (toimittaneet). *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>

Räsänen, Ville, Saku Suuriniemi ja 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>

Rajala, S., M. Mettänen, ja 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>

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>

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>

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>

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 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>

Rasilo, Paavo, Anouar Belahcen ja 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>

Rissanen, Ilari ja 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>

Rissanen, Ilari ja 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>

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>

Ropo, M., J. Akola ja 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>

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>

Rubel, Aleksey S., Vladimir V. Lukin, ja 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>

Ruuskanen, Janne, Antti Stenvall ja Valtteri 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>

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>

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

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>

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)

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>

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>

- Sadiek, 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>
- 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>
- Sahin, Erdem, Ugur Akpınar, ja Atanas Gotchev "Phase-coded computational imaging for depth of field extension". *Proceedings - Digital Holography and Three-Dimensional Imaging 2019*. Optical Society of America. 2019.
- Şahin, Erdem ja 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.
- Şahin, Erdem ja 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>
- 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>
- Saleh, Abba et al. "Short-range supercontinuum based lidar for combustion diagnostics". ja Kimata, Masafumi Valenta, Christopher R. (toimittaneet). *SPIE Future Sensing Technologies*. Proceedings of SPIE. SPIE, IEEE. 2019. <https://doi.org/10.1117/12.2542720>
- 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>
- Salmi, T. ja 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>
- 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>
- Salmi, Tiina ja 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>
- Salmi, Tiina, Timo Tarhasaari ja 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>
- 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>
- 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>
- Sand, Antti ja 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>



- Sapaev, U. K., D. B. Yusupov, ja 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>
- 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>
- Sautter, J. et al. "Tailoring directional scattering of second-harmonic generation from (111)-GaAs nanoantennas". ja Mitchell, Arnan Rubinsztein-Dunlop, Halina (toimittaneet). *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>
- 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>
- 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>
- 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>
- Sharma, Ramakant, Sagar Bhalerao ja 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>
- 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>
- 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>
- 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>
- 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>
- Skaugen, Audun, Peyton Murray, ja 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>
- 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>
- Smirnov, Sergey ja 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>
- 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>

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

- Suominen, Olli ja 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>
- 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.jnoncrysol.2020.119893>
- 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>
- 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>
- 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>
- 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)
- 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>
- Toral, Fernando, Javier Munilla ja 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>
- 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>
- Tuominen, Samuli ja 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>
- Ukkonen, Leena et al. "Backscattering-based wireless communication and power transfer to small biomedical implants". ja Gray, Bonnie L. Becker, Holger (toimittaneet). *Microfluidics, BioMEMS, and Medical Microsystems XVIII*. Progress in Biomedical Optics and Imaging - Proceedings of SPIE. SPIE. 2020. <https://doi.org/10.1117/12.2552183>
- 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>
- Uusitalo, Topi, Heikki Virtanen ja 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>
- Vainio, Markku "Continuous-wave optical parametric oscillators for mid-infrared spectroscopy". ja Schunemann, Peter G. Scheppler, Kenneth L. (toimittaneet). *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>
- 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>
- 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>

- Valkealahti, S. ja 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>
- Valkealahti, S. ja 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>
- Valkealahti, S. ja M. Manninen. "Instability of cuboctahedral copper clusters". *Physical Review B*. 1992, 45(16). 9459-9462. <https://doi.org/10.1103/PhysRevB.45.9459>
- Valkealahti, Seppo ja David O. Welch. "Theoretical studies of structural properties of the high- $T_c$  superconductor  $Y_1Ba_2Cu_3O_{7-x}$ ". *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)
- 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>
- 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>
- 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>
- Veber, A., M.M. Smedskjaer ja 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>
- 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>
- Vehviläinen, Juhani ja 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>
- 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>
- 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>
- Viheriälä, 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>
- Viheriälä, Jukka et al. *1180 nm GaInNAs quantum well based high power DBR laser diodes*. 2017.
- Viheriälä, Jukka et al. "1.3 $\mu$ m U-bend traveling wave SOA devices for high efficiency coupling to silicon photonics". ja Reed, Graham T. Knights, Andrew P. (toimittaneet). *Silicon Photonics XIV*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE, IEEE. 2019. <https://doi.org/10.1117/12.2505935>
- Viitala, Matti, Mikael Kuisma, ja 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>

- 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>
- Vikholm-Lundin, Inger, Sanna Auer ja Ann Charlotte Hellgren. "Detection of 3,4-methylenedioxyamphetamine (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>
- Vimieiro, Rodrigo B. et al. "Noise measurements from reconstructed digital breast tomosynthesis", Schmidt, Taly Gilat Chen, Guang-Hong Bosmans, Hilde (toimittaneet). *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>
- 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>
- 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>
- Virtanen, Heikki, Topi Uusitalo ja 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>
- Virtanen, Heikki, Topi Uusitalo ja 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Wang, Jianguang ja 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>
- 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>

- Wang, Yicheng et al. "73-fs SESAM mode-locked Tm,Ho:CNGG laser at 2061 nm". ja Clarkson, W. Andrew Shori, Ramesh K. (toimittaneet). *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>
- 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>
- 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>
- 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>
- Xu, Lei et al. "Switchable unidirectional second-harmonic emission through GaAs nanoantennas". ja Mitchell, Arnan Rubinsztein-Dunlop, Halina (toimittaneet). *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>
- 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>
- Yadav, Amit et al. "405-nm pumped Ce<sup>3+</sup>-doped silica fiber for broadband fluorescence from cyan to red". ja Dignonnet, Michel J. F. Jiang, Shibin (toimittaneet). *Optical Components and Materials XVI*. Proceedings of SPIE - The International Society for Optical Engineering. SPIE, IEEE. 2019. <https://doi.org/10.1117/12.2509599>
- 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>
- 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>
- 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>
- 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>
- Yildiz, Bilge Can, Alpan Bek ja 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>
- Zakeri, Faezeh Sadat et al. "Benchmarking of several disparity estimation algorithms for light field processing"., Bazeille, Stephane Verrier, Nicolas Cudel, Christophe (toimittaneet). *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>
- Zang, X. ja 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>

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>

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>

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)

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>

Zia, Nouman et al. "Fabrication and characterization of broadband superluminescent diodes for 2  $\mu\text{m}$  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>

Zia, Nouman et al. "High performance GaSb superluminescent diodes for tunable light source at 2  $\mu\text{m}$  and 2.55  $\mu\text{m}$ ". *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)

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>

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., D. A. Korobko ja O. G. Okhotnikov. "Frequency modulation of semiconductor disk laser pulses". *Quantum Electronics*. 2015, 45(7). 628-634. <https://doi.org/10.1070/QE2015v045n07ABEH015670>