

- Dongho-Nguimdo GM, Igumbor E, Zambou S, Joubert DP. 2019. First principles prediction of the solar cell efficiency of chalcopyrite materials AgMX_2 (M=In, Al; X=S, Se, Te). *Computational Condensed Matter*. 21. <https://doi.org/10.1016/j.cocom.2019.e00391>
- Rissanen I, Laurson L. 2019. Bursty magnetic friction between polycrystalline thin films with domain walls. *Physical Review B*. 100(14). <https://doi.org/10.1103/PhysRevB.100.144408>
- Vetter C, Steinkopf R, Bergner K, Ornigotti M, Nolte S, Gross H, Szameit A. 2019. Realization of Free-Space Long-Distance Self-Healing Bessel Beams. *Laser and Photonics Reviews*. 13(10). <https://doi.org/10.1002/lpor.201900103>
- Skaugen A, Murray P, Laurson L. 2019. Analytical computation of the demagnetizing energy of thin-film domain walls. *Physical Review B*. 100(9). <https://doi.org/10.1103/PhysRevB.100.094440>
- Klauck F, Teuber L, Ornigotti M, Heinrich M, Scheel S, Szameit A. 2019. Observation of PT-symmetric quantum interference. *Nature Photonics*. <https://doi.org/10.1038/s41566-019-0517-0>
- Rissanen I, Laurson L. 2019. Magnetic non-contact friction from domain wall dynamics actuated by oscillatory mechanical motion. *Journal of Physics D: Applied Physics*. 52(44). <https://doi.org/10.1088/1361-6463/ab351f>
- Murtomäki JS, Van Nugteren J, Stenvall A, Kirby G, Rossi L. 2019. 3-D mechanical modeling of 20 T HTS clover leaf end coils - Good practices and lessons learned. *IEEE Transactions on Applied Superconductivity*. 29(5). <https://doi.org/10.1109/TASC.2019.2899317>
- Nechay K, Kahle H, Penttinen J-P, Rajala P, Tukiainen A, Ranta S, Guina M. 2019. AlGaAs/AlGaInP VECSELs with Direct Emission at 740-770 nm. *IEEE Photonics Technology Letters*. 31(15):1245-1248. <https://doi.org/10.1109/LPT.2019.2924289>
- Lorin C, Fleiter J, Salmi T, Schoerling D. 2019. Exploration of Two Layer Nb_3Sn Designs of the Future Circular Collider Main Quadrupoles. *IEEE Transactions on Applied Superconductivity*. 29(5). <https://doi.org/10.1109/TASC.2019.2892814>
- Hannula M, Ali-Löytty H, Lahtonen K, Saari J, Tukiainen A, Valden M. 2019. Highly efficient charge separation in model Z-scheme $\text{TiO}_2/\text{TiSi}_2/\text{Si}$ photoanode by micropatterned titanium silicide interlayer. *Acta Materialia*. 174:237-245. <https://doi.org/10.1016/j.actamat.2019.05.032>
- Wu H, Ryczkowski P, Friberg AT, Dudley JM, Genty G. 2019. Temporal ghost imaging using wavelength conversion and two-color detection. *Optica*. 6(7):902-906. <https://doi.org/10.1364/OPTICA.6.000902>
- Bhalerao SR, Lupo D, Zangiabadi A, Kymissis I, Leppäniemi J, Alastalo A, Berger PR. 2019. 0.6V threshold voltage thin film transistors with solution processable indium oxide (In_2O_3) Channel and Anodized High- κ Al_2O_3 Dielectric. *IEEE Electron Device Letters*. 40(7):1112-1115. <https://doi.org/10.1109/LED.2019.2918492>
- Huttunen MJ, Hristu R, Dumitru A, Costache M, Stanciu SG. 2019. Investigating human skin using deep learning enhanced multiphoton microscopy. In 21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE. (International Conference on Transparent Optical Networks). <https://doi.org/10.1109/ICTON.2019.8840265>
- Blanc W, Vermillac M, Petit L, Lukowiak A, Lu Z, Mady F, Benabdesselam M, Chaussedent S, Mehdi A, Ferrari M. 2019. Nanoparticles in optical waveguides: A toolbox to promote lasers, amplifiers and sensors. In 21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE. (International Conference on Transparent Optical Networks). <https://doi.org/10.1109/ICTON.2019.8840208>
- Aryal U, Ojha N, Trautvetter T, Lastusaari M, Ueda J, Mueller R, Veber A, Petit L. 2019. Persistent luminescent glasses prepared using the direct doping method. In 21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE. (International Conference on Transparent Optical Networks). <https://doi.org/10.1109/ICTON.2019.8840287>

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

Huttunen MJ, Stolt T, Reshef O, Kiviniemi A, Czaplicki R, Zang X, Vartiainen I, Butet J, Kuittinen M, Martin OJF, Dolgaleva K, Boyd RW, Kauranen M. 2019. Towards efficient nonlinear plasmonic metasurfaces. In 21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE. (International Conference on Transparent Optical Networks). <https://doi.org/10.1109/ICTON.2019.8840277>

Isoaho R, Aho A, Tukiainen A, Aho T, Raappana M, Salminen T, Reuna J, Guina M. 2019. 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*. 195:198-203. <https://doi.org/10.1016/j.solmat.2019.02.030>

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

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

Jaakkola H, Henno J, Mäkelä J, Thalheim B. 2019. Artificial intelligence yesterday, today and tomorrow. Skala K, Car Z, Pale P, Huljenic D, Janjic M, Koracic M, Sruk V, Ribaric S, Grbac TG, Butkovic Z, Cicin-Sain M, Skvorc D, Mauher M, Babic S, Gros S, Vrdoljak B, Tijan E, editors. In 2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings. IEEE. pp. 860-867. <https://doi.org/10.23919/MIPRO.2019.8756913>

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

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

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

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

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

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

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

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

Minarelli EL, Poyhönen K, Van Dalum GAR, Ojanen T, Fritz L. 2019. Engineering of Chern insulators and circuits of topological edge states. *Physical Review B*. 99(16). <https://doi.org/10.1103/PhysRevB.99.165413>

Berger PR, Li M, Mattei RM, Niang MA, Talisa N, Tripepi M, Harris B, Bhalerao SR, Chowdhury EA, Winter CH, Lupo D. 2019. Advancements in Solution Processable Devices using Metal Oxides For Printed Internet-of-Things Objects. In 2019 Electron Devices Technology and Manufacturing Conference, EDTM 2019. IEEE. pp. 160-162. <https://doi.org/10.1109/EDTM.2019.8731322>

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

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

Murakami M, Kohara S, Kitamura N, Akola J, Inoue H, Hirata A, Hiraoka Y, Onodera Y, Obayashi I, Kalikka J, Hirao N, Musso T, Foster AS, Idemoto Y, Sakata O, Ohishi Y. 2019. Ultrahigh-pressure form of SiO₂ glass with dense pyrite-type crystalline homology. *Physical Review B*. 99(4). <https://doi.org/10.1103/PhysRevB.99.045153>

Edwards TEJ, Di Gioacchino F, Goodfellow AJ, Mohanty G, Wehrs J, Michler J, Clegg WJ. 2019. Deformation of lamellar γ -TiAl below the general yield stress. *Acta Materialia*. 163:122-139. <https://doi.org/10.1016/j.actamat.2018.09.061>

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

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

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

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

Yadav A, Chichkov NB, Gumenyuk R, Zhrebtsov E, Melkumov MA, Yashkov MV, Dianov EM, Rafailov EU. 2019. 405-nm pumped Ce³⁺-doped silica fiber for broadband fluorescence from cyan to red. Digonnet MJF, Jiang S, editors. In *Optical Components and Materials XVI*. SPIE, IEEE. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2509599>

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

Kahle H, Penttinen JP, Phung HM, Rajala P, Tukiainen A, Ranta S, Guina M. 2019. 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 U, editor. In Vertical External Cavity Surface Emitting Lasers (VECSELS) IX. SPIE, IEEE. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2512111>

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

Haapanen J, Aromaa M, Teisala H, Juuti P, Tuominen M, Sillanpää M, Stepien M, Saarinen JJ, Toivakka M, Kuusipalo J, Mäkelä JM. 2019. On the limit of superhydrophobicity: Defining the minimum amount of TiO₂ nanoparticle coating. Materials Research Express. 6(3). <https://doi.org/10.1088/2053-1591/aaf2ee>

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

Joost U, Sutka A, Oja M, Smits K, Doebelin N, Loot A, Järvekülg M, Hirsimäki M, Valden M, Nommiste E. 2018. Reversible photodoping of TiO₂ nanoparticles. Chemistry of Materials. 30(24):8968-8974. <https://doi.org/10.1021/acs.chemmater.8b04813>

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

Casula R, Penttinen J-P, Guina M, Kemp AJ, Hastie JE. 2018. Cascaded crystalline raman lasers for extended wavelength coverage: Continuous-wave, third-stokes operation. Optica. 5(11):1406-1413. <https://doi.org/10.1364/OPTICA.5.001406>

Gunes M, Ukelge MO, Donmez O, Erol A, Gumus C, Alghamdi H, Galeti HVA, Henini M, Schmidbauer M, Hilska J, Puustinen J, Guina M. 2018. Optical properties of GaAs_{1-x}Bi_x/GaAs quantum well structures grown by molecular beam epitaxy on (100) and (311)B GaAs substrates. Semiconductor Science and Technology. 33(12). <https://doi.org/10.1088/1361-6641/aaea2e>

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

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

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

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

Aho A, Isoaho R, Tukiainen A, Gori G, Campesato R, Guina M. 2018. Dilute nitride triple junction solar cells for space applications: Progress towards highest AM0 efficiency. Progress in Photovoltaics: Research and Applications. 26(19):740-744. <https://doi.org/10.1002/pip.3011>

- Yadav A, Chichkov NB, Gumenyuk R, Zherebtsov E, Melkumov MA, Yashkov MV, Dianov EM, Rafailov EU. 2018. Fluorescence bandwidth of 280nm from broadband Ce³⁺-doped silica fiber pumped with blue laser diode. In 2018 International Conference Laser Optics (ICLO) . IEEE. pp. 133-133. <https://doi.org/10.1109/LO.2018.8435861>
- Cemlyn B, Adams M, Harbord E, Li N, Henning ID, Oulton R, Korpijärvi VM, Guina M. 2018. Near-threshold high spin amplification in a 1300 nm GaInNAs spin laser. *Semiconductor Science and Technology*. 33(9). <https://doi.org/10.1088/1361-6641/aad42e>
- Mosallaei M, Jokinen J, Honkanen M, Iso-Ketola P, Vippola M, Vanhala J, Kanerva M, Mantysalo M. 2018. Geometry Analysis in Screen-Printed Stretchable Interconnects. *IEEE Transactions on Components, Packaging and Manufacturing Technology*. 8(8):1344-1352. <https://doi.org/10.1109/TCPMT.2018.2854635>
- Mikkonen R, Lahokallio S, Frisk L, Mäntysalo M. 2018. Processing of printed silver patterns on an ETFE substrate. In *Proceedings - 2018 IMAPS Nordic Conference on Microelectronics Packaging, NORDPAC 2018*. IEEE. pp. 1-7. <https://doi.org/10.23919/NORDPAC.2018.8423860>
- Prando GA, Orsi Gordo V, Puustinen J, Hilska J, Alghamdi HM, Som G, Gunes M, Akyol M, Souto S, Rodrigues AD, Galeti HVA, Henini M, Gobato YG, Guina M. 2018. Exciton localization and structural disorder of GaAs_{1-x}Bi_x/GaAs quantum wells grown by molecular beam epitaxy on (311)B GaAs substrates. *Semiconductor Science and Technology*. 33(8). <https://doi.org/10.1088/1361-6641/aad02e>
- Kulju S, Riegger L, Koltay P, Mattila K, Hyväluoma J. 2018. Fluid flow simulations meet high-speed video: Computer vision comparison of droplet dynamics. *Journal of Colloid and Interface Science*. 522:48-56. <https://doi.org/10.1016/j.jcis.2018.03.053>
- Zhao J, Prioli M, Stenvall A, Salmi T, Gao Y, Caiffi B, Lorin C, Marinozzi V, Farinon S, Sorbi M. 2018. 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*. 550:27-34. <https://doi.org/10.1016/j.physc.2018.04.003>
- Mikkonen R, Mäntysalo M. 2018. Evaluation of screen printed silver trace performance and long-term reliability against environmental stress on a low surface energy substrate. *Microelectronics Reliability*. 86:54-65. <https://doi.org/10.1016/j.microrel.2018.05.010>
- Chen X, He H, Ukkonen L, Virkki J, Lu Y, Lam H. 2018. Fabrication and reliability evaluation of passive UHF RFID T-shirts . In *2018 IEEE International Workshop on Antenna Technology, iWAT2018 - Proceedings*. IEEE. pp. 1-4. <https://doi.org/10.1109/IWAT.2018.8379146>
- Todesco E, Annarella M, Ambrosio G, Apollinari G, Ballarino A, Bajas H, Bajko M, Bordini B, Bossert R, Bottura L, Cavanna E, Cheng D, Chlachidze G, De Rijk G, Dimarco J, Ferracin P, Fleiter J, Guinchard M, Hafalia A, Holik E, Izquierdo Bermudez S, Lackner F, Marchevsky M, Loeffler C, Nobrega A, Perez JC, Prestemon S, Ravaioli E, Rossi L, Sabbi G, Salmi T, Savary F, Schmalzle J, Stoynev S, Strauss T, Tartaglia M, Vallone G, Velev G, Wanderer P, Wang X, Willering G, Yu M. 2018. Progress on HL-LHC Nb₃Sn Magnets. *IEEE Transactions on Applied Superconductivity*. 28(4). <https://doi.org/10.1109/TASC.2018.2830703>
- Kaunisto K, Kotilainen M, Karhu M, Lagerbom J, Vuorinen T, Honkanen M, Vippola M, Turunen E. 2018. The effect of carbon and nickel additions on the precursor synthesis of Cr₃C₂-Ni nanopowder. *Ceramics International*. 44(8):9338-9346. <https://doi.org/10.1016/j.ceramint.2018.02.146>
- Ojha N, Laihinne T, Salminen T, Lastusaari M, Petit L. 2018. Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics. *Ceramics International*. 44(10):11807-11811. <https://doi.org/10.1016/j.ceramint.2018.03.267>
- Murtomäki JS, Kouhia R, Stenvall A, Bottura L, Kirby G, van Nugteren J, DeRijk G, Rossi L. 2018. Investigation of REBCO Roebel Cable Irreversible Critical Current Degradation Under Transverse Pressure. *IEEE Transactions on Applied Superconductivity*. 28(4). <https://doi.org/10.1109/TASC.2018.2829150>

Goyos-Ball L, Prado C, Díaz R, Fernández E, Ismailov A, Kumpulainen T, Levänen E, Torrecillas R, Fernández A. 2018. The effects of laser patterning 10CeTZP- Al_2O_3 nanocomposite disc surfaces: Osseous differentiation and cellular arrangement in vitro. *Ceramics International*. 44(8):9472-9478. <https://doi.org/10.1016/j.ceramint.2018.02.164>

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

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

Sarcan F, Mutlu S, Cokduygulular E, Donmez O, Erol A, Puustinen J, Guina M. 2018. 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*. 33(6). <https://doi.org/10.1088/1361-6641/aabc39>

Guina M, Isoaho R, Viheriälä J, Aho A, Aho A, Tukiainen A. 2018. Quantum-well Laser Emitting at 1.2 μm -1.3 μm Window Monolithically Integrated on Ge Substrate. In 43rd European Conference on Optical Communication, ECOC 2017. IEEE. pp. 1-3. <https://doi.org/10.1109/ECOC.2017.8345837>

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

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

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

Rossi L, Badel A, Bajas H, Bajko M, Ballarino A, Barth C, Betz U, Bottura L, Broggi F, Chiuchiolo A, Dhalle M, Durante M, Fazilleau P, Fleiter J, Gao P, Goldacker W, Kario A, Kirby G, Lorin C, Murtomaeki JS, van Nugteren J, Petrone C, DeRijk G, Senatore C, Statera M, Stenvall A, Tixador P, Yang Y, Usoskin A, Zangenberg N. 2018. The EuCARD2 Future Magnets Program for particle accelerator high field dipoles: review of results and next steps. *IEEE Transactions on Applied Superconductivity*. 28(3). <https://doi.org/10.1109/TASC.2017.2784357>

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

Zhao Y, Wang Y, Zhang X, Mateos X, Pan Z, Loiko P, Zhou W, Xu X, Xu J, Shen D, Suomalainen S, Härkönen A, Guina M, Griebner U, Petrov V. 2018. Sub-100 fs pulse generation from a Tm,Ho: CALYO laser mode-locked by a GaSb-based SESAM at ~ 2043 nm. In *CLEO: Science and Innovations, CLEO_SI 2018*. OSA - The Optical Society. https://doi.org/10.1364/CLEO_SI.2018.SF2N.1

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

Murtomaeki JS, Kirby G, van Nugteren J, Contat PA, Fleiter J, De Frutos OS, Pincot FO, DeRijk G, Rossi L, Ruuskanen J, Stenvall A, Wolf F. 2018. 10 kA Joints for HTS Roebel Cables. *IEEE Transactions on Applied Superconductivity*. 28(3). <https://doi.org/10.1109/TASC.2018.2804951>

- Voronin V, Pismenskova M, Zelensky A, Cen Y, Nadykto A, Egiazarian K. 2018. Action recognition using the 3D dense microblock difference. In Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II. SPIE. (Proceedings of SPIE). <https://doi.org/10.1117/12.2326801>
- Kerst T, Toivonen J. 2018. Alpha radiation induced luminescence in solar blind spectral region. In CLEO: Applications and Technology, CLEO_AT 2018. OSA - The Optical Society. https://doi.org/10.1364/CLEO_AT.2018.ATH4O.8
- Glorieux B, Salminen T, Massera J, Laštusaari M, Petit L. 2018. Better understanding of the role of SiO₂, P₂O₅ and Al₂O₃ on the spectroscopic properties of Yb³⁺ doped silica sol-gel glasses. *Journal of Non-Crystalline Solids*. 482:46-51. <https://doi.org/10.1016/j.jnoncrsol.2017.12.021>
- Lorin C, Simon D, Felice H, Rifflet JM, Salmi T, Schoerling D. 2018. Design of a Nb₃Sn 400 T/m quadrupole for the Future Circular Collider. *IEEE Transactions on Applied Superconductivity*. 28(3). <https://doi.org/10.1109/TASC.2018.2797945>
- Fang CY, Vallini F, Amili AE, Tukiainen A, Lyytikäinen J, Guina M, Fainman Y. 2018. Development of efficient electrically pumped nanolasers based on InAlGaAs tunnel junction. In CLEO: Science and Innovations, CLEO_SI 2018. OSA - The Optical Society. https://doi.org/10.1364/CLEO_SI.2018.SW4Q.4
- Perumbilavil S, Piccardi A, Kauranen M, Assanto G. 2018. Directional random laser by combining cavity-less lasing and spatial solitons in liquid crystals. In *Nonlinear Photonics, NP 2018*. OSA - The Optical Society. <https://doi.org/10.1364/NP.2018.NpW2C.4>
- Durandin NA, Isokuortti J, Efimov A, Vuorimaa-Laukkanen E, Tkachenko NV, Laaksonen T. 2018. Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more. *Chemical Communications*. 54(99):14029-14032. <https://doi.org/10.1039/c8cc07592a>
- Assanto G, Perumbilavil S, Piccardi A, Kauranen M. 2018. Electro-optic steering of random laser emission in liquid crystals. *Photonics Letters of Poland*. 10(4):103-105. <https://doi.org/10.4302/plp.v10i4.852>
- Poutala A, Kovanen T, Kettunen L. 2018. Essential Measurements for Finite Element Simulations of Magnetostrictive Materials. *IEEE Transactions on Magnetics*. 54(1). <https://doi.org/10.1109/TMAG.2017.2766599>
- Kantola E, Penttinen J-P, Leinonen T, Ranta S, Guina M. 2018. Frequency-doubled VECSEL employing a Volume Bragg Grating for linewidth narrowing. In CLEO: Applications and Technology, CLEO_AT 2018. OSA - The Optical Society. https://doi.org/10.1364/CLEO_AT.2018.JTu2A.17
- Kantola E, Leinonen T, Rantamäki A, Guina M, Sirbu A, Iakovlev V. 2018. Frequency-doubled wafer-fused 638 nm VECSEL with an output power of 5.6 W. In CLEO: Applications and Technology, CLEO_AT 2018. OSA - The Optical Society. https://doi.org/10.1364/CLEO_AT.2018.JTu2A.10
- Mateos X, Loiko P, Lamrini S, Scholle K, Fuhrberg P, Suomalainen S, Härkönen A, Guina M, Vatnik S, Vedin I, Aguiló M, Díaz F, Wang Y, Griebner U, Petrov V. 2018. Highly-efficient Ho:KY(WO₄)₂ thin-disk lasers at 2.06 μm. In *Pacific-Rim Laser Damage 2018: Optical Materials for High-Power Lasers*. SPIE, IEEE. (Proceedings of SPIE). <https://doi.org/10.1117/12.2316822>
- Zia N, Viheriälä J, Koivusalo E, Aho A, Suomalainen S, Guina M. 2018. High performance GaSb superluminescent diodes for tunable light source at 2 μm and 2.55 μm. In CLEO: Applications and Technology, CLEO_AT 2018. OSA - The Optical Society. https://doi.org/10.1364/CLEO_AT.2018.JTu2A.28
- Karioja P, Alajoki T, Cherchi M, Ollila J, Harjanne M, Heinilehto N, Suomalainen S, Zia N, Tuorila H, Viheriälä J, Guina M, Buczynski R, Kasztelaniec R, Salo T, Virtanen S, Kluczynski P, Borgen L, Ratajczyk M, Kalinowski P. 2018. Integrated multi-wavelength mid-IR light source for gas sensing. In *Next-Generation Spectroscopic Technologies XI*. SPIE, IEEE. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2305712>

- Wirdatmadja S, Johari P, Balasubramaniam S, Bae Y, Stachowiak MK, Jornet JM. 2018. Light propagation analysis in nervous tissue for wireless optogenetic nanonetworks. In *Optogenetics and Optical Manipulation 2018*. SPIE. <https://doi.org/10.1117/12.2288786>
- Cappelluti F, Kim D, van Eerden M, Cédola AP, Aho T, Bissels G, Elsehrawy F, Wu J, Liu H, Mulder P, Bauhuis G, Schermer J, Niemi T, Guina M. 2018. Light-trapping enhanced thin-film III-V quantum dot solar cells fabricated by epitaxial lift-off. *Solar Energy Materials and Solar Cells*. 181:83-92. <https://doi.org/10.1016/j.solmat.2017.12.014>
- Toral F, Munilla J, Salmi T. 2018. Magnetic and mechanical design of a 16 T common coil dipole for FCC. *IEEE Transactions on Applied Superconductivity*. 28(3). <https://doi.org/10.1109/TASC.2018.2797909>
- Virtanen H, Uusitalo T, Karjalainen M, Ranta S, Viheriala J, Dumitrescu M. 2018. Narrow-linewidth 780 nm DFB lasers fabricated using nanoimprint lithography. *IEEE Photonics Technology Letters*. 30(1):51-54. <https://doi.org/10.1109/LPT.2017.2772337>
- Kaneda Y, Hart ML, Warner SH, Penttinen JP, Guina M. 2018. Narrow-linewidth operation of folded VECSEL cavity with twist-mode configuration. In *Advanced Solid State Lasers, ASSL 2018*. OSA - The Optical Society. (Optics InfoBase Conference Papers). <https://doi.org/10.1364/ASSL.2018.ATH2A.7>
- Stenvall A, Lahtinen V. 2018. Open Material Property Library With Native Simulation Tool Integrations - MASTO. *IEEE Transactions on Applied Superconductivity*. <https://doi.org/10.1109/TASC.2018.2799850>
- Wani OM, Zeng H, Wasylczyk P, Priimagi A. 2018. Programming Photoresponse in Liquid Crystal Polymer Actuators with Laser Projector. *Advanced Optical Materials*. 6(1). <https://doi.org/10.1002/adom.201700949>
- Ryczkowski P, Närhi M, Billet C, Merolla JM, Genty G, Dudley JM. 2018. Real-time full-field characterization of transient dissipative soliton dynamics in a mode-locked laser. *Nature Photonics*. 12:221-227. <https://doi.org/10.1038/s41566-018-0106-7>
- Ryczkowski P, Närhi M, Billet C, Merolla JM, Dudley JM, Genty G. 2018. Real-time measurements of nonlinear instabilities in optical fibers. In *CLEO: Applications and Technology, CLEO_AT 2018*. OSA - The Optical Society. https://doi.org/10.1364/CLEO_AT.2018.AF2Q.1
- Hu J, Mawst L, Moss S, Petit L, Ting D, ed. 2018. Special Issue: Mid-infrared optical materials and their device applications. *Optical Materials Express*. 8(7).
- Alekseev A, Ihalainen P, Ivanov A, Domnin I, Rosqvist E, Lemmetyinen H, Vuorimaa-Laukkanen E, Peltonen J, Vyaz'min S. 2018. Stable blue phase polymeric Langmuir-Schaefer films based on unsymmetrical hydroxyalkadiynyl N-arylcarbamate derivatives. *Thin Solid Films*. 645:108-118. <https://doi.org/10.1016/j.tsf.2017.10.018>
- Nikkinen J, Savitski V, Reilly S, Dziechciarczyk L, Härkönen A, Kemp A, Guina M. 2018. Sub-100 ps monolithic diamond Raman laser emitting at 573 nm. *IEEE Photonics Technology Letters*. 30(11):981-984. <https://doi.org/10.1109/LPT.2018.2806183>
- Tomberg T, Vainio M, Hieta T, Halonen L. 2018. Sub-parts-per-trillion sensitivity in trace gas detection by cantilever-enhanced photo-acoustic spectroscopy. In *CLEO: Applications and Technology, CLEO_AT 2018*. OSA - The Optical Society. https://doi.org/10.1364/CLEO_AT.2018.ATH1O.8
- Achimova E, Abaskin V, Cazac V, Meshalkin A, Pedrini G, Claus D, Shevkunov I, Katkovnik V. 2018. Surface topography studied by off-axis digital holography. In *Novel Optical Materials and Applications, NOMA 2018*. OSA - The Optical Society. <https://doi.org/10.1364/NOMA.2018.NoW1J.7>

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

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

Bhavitha KB, Nair AK, Perumbilavil S, Joseph S, Kala MS, Saha A, Narayanan RA, Hameed N, Thomas S, Oluwafemi OS, Kalarikkal N. 2017. Investigating solvent effects on aggregation behaviour, linear and nonlinear optical properties of silver nanoclusters. *Optical Materials*. 73:695-705. <https://doi.org/10.1016/j.optmat.2017.09.024>

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

Välimäki H, Verho J, Kreutzer J, Kattiparambil Rajan D, Ryyänen T, Pekkanen-Mattila M, Ahola A, Tappura K, Kallio P, Lekkala J. 2017. Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models. *Sensors and Actuators B: Chemical*. 249:738-746. <https://doi.org/10.1016/j.snb.2017.04.182>

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

Petit L, Nguyen H, Hongisto M, Salminen T, Hakkarainen T, Lopez-Iscoa P, Pugliese D, Boetti NG, Milanese D. 2017. Novel Er³⁺ doped phosphate glass-ceramics for photonics. In *ICTON 2017 - 19th International Conference on Transparent Optical Networks*. IEEE COMPUTER SOCIETY PRESS. <https://doi.org/10.1109/ICTON.2017.8024877>

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

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

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

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

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

Ahmed U, Harju J, Poutala J, Ruuskanen P, Rasilo P, Kouhia R. 2017. Finite element method incorporating coupled magneto-elastic model for magneto-mechanical energy harvester. Paper presented at *Compumag 2017*, Daejeon, Korea, Democratic People's Republic of.

Putala J, Niittynen J, Hannu J, Myllymäki S, Kunnari E, Mäntysalo M, Hagberg J, Jantunen H. 2017. Capability assessment of inkjet printing for reliable RFID applications. *IEEE Transactions on Device and Materials Reliability*. 17(2):281-290. <https://doi.org/10.1109/TDMR.2016.2636342>

- Schoerling D, Durante M, Lorin C, Martinez T, Ruuskanen J, Salmi T, Sorbi M, Tommasini D, Toral F. 2017. Considerations on a Cost Model for High-Field Dipole Arc Magnets for FCC. *IEEE Transactions on Applied Superconductivity*. 27(4). <https://doi.org/10.1109/TASC.2017.2657510>
- Stoykova E, Berberova N, Kim Y, Nazarova D, Ivanov B, Gotchev A, Hong J, Kang H. 2017. Dynamic speckle analysis with smoothed intensity-based activity maps. *Optics and Lasers in Engineering*. 93:55-65. <https://doi.org/10.1016/j.optlaseng.2017.01.012>
- Kirby GA, Van Nugteren J, Bajas H, Benda V, Ballarino A, Bajko M, Bottura L, Broekens K, Canale M, Chiuchiolo A, Gentini L, Peray N, Perez JC, De Rijk G, Rijllart A, Rossi L, Murtomaeki J, Mazet J, Pincot FO, Volpini G, Durante M, Fazilleau P, Lorin C, Stenvall A, Goldacker W, Kario A, Usoskin A. 2017. First Cold Powering Test of REBCO Roebel Wound Coil for the EuCARD2 Future Magnet Development Project. *IEEE Transactions on Applied Superconductivity*. 27(4). <https://doi.org/10.1109/TASC.2017.2653204>
- Murtomaki JS, Van Nugteren J, Kirby G, Rossi L, Ruuskanen J, Stenvall A. 2017. Mechanical Effects of the Nonuniform Current Distribution on HTS Coils for Accelerators Wound With REBCO Roebel Cable. *IEEE Transactions on Applied Superconductivity*. 27(4). <https://doi.org/10.1109/TASC.2017.2665882>
- Marinozzi V, Bellomo G, Caiffi B, Fabbricatore P, Farinon S, Salmi T, Sorbi M, Stenvall A, Volpini G. 2017. Quench Protection Study of the Eurocircol 16 T $\cos\theta$ Dipole for the Future Circular Collider (FCC). *IEEE Transactions on Applied Superconductivity*. 27(4). <https://doi.org/10.1109/TASC.2017.2656156>
- Salmi T, Prioli M, Stenvall A, Ruuskanen J, Verweij AP, Auchmann B, Marinozzi V. 2017. Suitability of Different Quench Protection Methods for a 16 T Block-Type Nb_3Sn Accelerator Dipole Magnet. *IEEE Transactions on Applied Superconductivity*. 27(4). <https://doi.org/10.1109/TASC.2017.2651386>
- Tommasini D, Auchmann B, Bajas H, Bajko M, Ballarino A, Bellomo G, Benedikt M, Bermudez SI, Bordini B, Bottura L, Buzio M, Dhalle M, Durante M, De Rijk G, Fabbricatore P, Farinon S, Ferracin P, Gao P, Lackner F, Lorin C, Marinozzi V, Martinez T, Munilla J, Ogitsu T, Ortwein R, Perez J, Prioli M, Rifflet JM, Rochepault E, Russenschuck S, Salmi T, Savary F, Schoerling D, Segreti M, Senatore C, Sorbi M, Stenvall A, Todesco E, Toral F, Verweij AP, Volpini G, Wessel S, Wolf F. 2017. The 16 T Dipole Development Program for FCC. *IEEE Transactions on Applied Superconductivity*. 27(4). <https://doi.org/10.1109/TASC.2016.2634600>
- Ma L, Laasonen K, Akola J. 2017. Catalytic Activity of AuCu Clusters on MgO(100): Effect of Alloy Composition for CO Oxidation. *Journal of Physical Chemistry C*. 121(20):10876-10886. <https://doi.org/10.1021/acs.jpcc.6b12054>
- Goh J-Q, Akola J, Ferrando R. 2017. Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study. *Journal of Physical Chemistry C*. 121(20):10809-10816. <https://doi.org/10.1021/acs.jpcc.6b11958>
- He H, Akbari M, Chen X, Nommeots-Nomm A, Chen L, Ukkonen L, Virkki J. 2017. Fabrication and performance evaluation of 3D-printed graphene passive UHF RFID tags on cardboard. In *2017 Progress in Electromagnetics Research Symposium - Spring, PIERS 2017*. IEEE. pp. 3322-3325. <https://doi.org/10.1109/PIERS.2017.8262330>
- Chen X, He H, Chen L, Raunonen P, Ukkonen L, Virkki J. 2017. Two-part stretchable passive UHF RFID textile tags. In *2017 Progress in Electromagnetics Research Symposium - Spring, PIERS 2017*. Electromagnetics Academy. pp. 3318-3321. <https://doi.org/10.1109/PIERS.2017.8262329>
- Virkki K, Hakola H, Urbani M, Tejerina L, Ince M, Martínez-Díaz MV, Torres T, Golovanova V, Golovanov V, Tkachenko NV. 2017. Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods: Aggregation Effects. *Journal of Physical Chemistry C*. 121(17):9594-9605. <https://doi.org/10.1021/acs.jpcc.7b01562>
- Saccone M, Siiskonen A, Fernandez-Palacio F, Priimägi A, Terraneo G, Resnati G, Metrangolo P. 2017. Halogen bonding stabilizes a cis-azobenzene derivative in the solid state: A crystallographic study. *ACTA CRYSTALLOGRAPHICA SECTION B : STRUCTURAL SCIENCE, CRYSTAL ENGINEERING AND MATERIALS*. 73(2):227-233. <https://doi.org/10.1107/S2052520617003444>

- Virtanen H, Uusitalo T, Dumitrescu M. 2017. Simulation studies of DFB laser longitudinal structures for narrow linewidth emission. *Optical and Quantum Electronics*. 49(4). <https://doi.org/10.1007/s11082-017-0993-8>
- Lopez-Iscoa P, Petit L, Massera J, Janner D, Boetti NG, Pugliese D, Fiorilli S, Novara C, Giorgis F, Milanese D. 2017. Effect of the addition of Al₂O₃, TiO₂ and ZnO on the thermal, structural and luminescence properties of Er³⁺-doped phosphate glasses. *Journal of Non-Crystalline Solids*. 460:161-168. <https://doi.org/10.1016/j.jnoncrysol.2017.01.030>
- Mashayekhi M, Winchester L, Laurila M-M, Mäntysalo M, Ogier S, Terés L, Carrabina J. 2017. Chip-by-chip configurable interconnection using digital printing techniques. *Journal of Micromechanics and Microengineering*. 27(4). <https://doi.org/10.1088/1361-6439/aa5ef3>
- Kosunen M, Lemberg J, Martelius M, Roverato E, Nieminen T, Englund M, Stadius K, Anttila L, Pallonen J, Valkama M, Ryyänen J. 2017. 13.5 A 0.35-to-2.6GHz multilevel outphasing transmitter with a digital interpolating phase modulator enabling up to 400MHz instantaneous bandwidth. In 2017 IEEE International Solid-State Circuits Conference, ISSCC 2017. IEEE. pp. 224-225. <https://doi.org/10.1109/ISSCC.2017.7870342>
- Selim B, Sofotasios PC, Muhaidat S, Karagiannidis GK. 2017. The effects of I/Q imbalance on wireless communications: A survey. In 2016 IEEE 59th International Midwest Symposium on Circuits and Systems (MWSCAS). IEEE. <https://doi.org/10.1109/MWSCAS.2016.7870102>
- Laurila M-M, Khorramdel B, Mäntysalo M. 2017. Combination of E-jet and inkjet printing for additive fabrication of multilayer high-density RDL of silicon interposer. *IEEE Transactions on Electron Devices*. 64(3):1217-1224. <https://doi.org/10.1109/TED.2016.2644728>
- Pavelescu EM, Bălățeanu N, Spânulescu SI, Arola E. 2017. Very high dose electron irradiation effects on photoluminescence from GaInNAs/GaAs quantum wells grown by molecular beam epitaxy. *Optical Materials*. 64:361-365. <https://doi.org/10.1016/j.optmat.2016.12.007>
- Kovács PT, Zare A, Balogh T, Bregovic R, Gotchev A. 2017. Architectures and codecs for real-time light field streaming. *Journal of Imaging Science and Technology*. 61(1). <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>
- Casula R, Penttinen JP, Guina M, Kemp AJ, Hastie JE. 2017. Continuous-wave, cascaded raman laser at 1.3, 1.5, and 1.7 μm. In The European Conference on Lasers and Electro-Optics, CLEO_Europe 2017. OSA - The Optical Society. (Optics InfoBase Conference Papers).
- Viheriälä J, Aho A, Virtanen H, Dumitrescu M, Guina M. 2017. 1180 nm GaInNAs quantum well based high power DBR laser diodes. Paper presented at SPIE Photonics West 2017, San Francisco, United States.
- Filippov V, Noronen T, Gumenyuk R, Chamorovskii Y, Golant K, Odnoblyudov M. 2017. Anisotropic ultra-large mode area Yb-doped tapered double clad fiber for ultrafast amplifiers. In Advanced Solid State Lasers 2017: Nagoya, Aichi Japan 1–5 October 2017. The Optical Society; OSA. <https://doi.org/10.1364/ASSL.2017.JTu2A.51>
- Katkovnik V, Shevkunov I, Petrov NV, Egiazarian K. 2017. Computational wavelength resolution for in-line lensless holography: Phase-coded diffraction patterns and wavefront group-sparsity. In Digital Optical Technologies 2017. SPIE. (Proceedings of SPIE). <https://doi.org/10.1117/12.2269327>
- Stoykova E, Nazarova D, Berberova N, Gotchev A, Ivanov B, Mateev G. 2017. Dynamic laser speckle metrology with binarization of speckle patterns. In 19th International Conference and School on Quantum Electronics: Laser Physics and Applications. SPIE. (Proceedings of SPIE). <https://doi.org/10.1117/12.2262330>
- Khorramdel B, Torkkeli A, Mäntysalo M. 2017. Electrical Contacts in SOI MEMS Using Aerosol Jet Printing. *IEEE Journal of the Electron Devices Society*. 6:34-40. <https://doi.org/10.1109/JEDS.2017.2764498>

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

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

Gumenyuk R, Rissanen J, Korobko DA, Zolotovskiy IO, Melkumov M, Khopin VF. 2017. New multisoliton complex in Bi-doped fiber laser operated at 1450 nm. In *European Quantum Electronics Conference 2017*. The Optical Society; OSA.

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

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

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

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

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

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

Wang Y, Jing W, Loiko P, Zhao Y, Huang H, Suomalainen S, Härkönen A, Guina M, Mateos X, Griebner U, Petrov V. 2017. Sub-10 optical-cycle mode-locked Tm:(Lu₂/3Sc₁/3)2O₃ mixed ceramic laser at 2057 nm. In *Advanced Solid State Lasers 2017: Nagoya, Aichi Japan 1–5 October 2017*. The Optical Society; OSA. <https://doi.org/10.1364/ASSL.2017.ATu6A.4>

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

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

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

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

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

- Ärrälä M, Hafiz H, Mou D, Wu Y, Jiang R, Riedemann T, Lograsso TA, Barbiellini B, Kaminski A, Bansil A, Lindroos M. 2016. 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 Bi₂Te₃ topological insulator. *Physical Review B*. 94(15). <https://doi.org/10.1103/PhysRevB.94.155144>
- Kalikka J, Akola J, Jones RO. 2016. Crystallization processes in the phase change material Ge₂Sb₂Te₅: Unbiased density functional/molecular dynamics simulations. *Physical Review B*. 94(13). <https://doi.org/10.1103/PhysRevB.94.134105>
- Heinonen S, Kannisto M, Nikkanen J-P, Huttunen-Saarivirta E, Karp M, Levänen E. 2016. Photocatalytic and antibacterial properties of ZnO films with different surface topographies on stainless steel substrate. *Thin Solid Films*. 616:842-849. <https://doi.org/10.1016/j.tsf.2016.10.002>
- Myllymäki S, Putaala J, Hannu J, Kunnari E, Mäntysalo M. 2016. RF measurements to pinpoint defects in inkjet-printed, thermally and mechanically stressed coplanar waveguides. *Microelectronics Reliability*. 65:142-150. <https://doi.org/10.1016/j.microrel.2016.08.021>
- Kylänpää I, Cavaliere F, Ziani NT, Sasseti M, Räsänen E. 2016. Thermal effects on the Wigner localization and Friedel oscillations in many-electron nanowires. *Physical Review B*. 94(11). <https://doi.org/10.1103/PhysRevB.94.115417>
- Räsänen V, Suuriniemi S, Kettunen L. 2016. Generalized slip transformations and air-gap harmonics in field models of electrical machines. *IEEE Transactions on Magnetics*. 52(9). <https://doi.org/10.1109/TMAG.2016.2561907>
- Akbari M, Virkki J, Sydänheimo L, Ukkonen L. 2016. Toward Graphene-Based Passive UHF RFID Textile Tags: A Reliability Study. *IEEE Transactions on Device and Materials Reliability*. 16(3):429-431. <https://doi.org/10.1109/TDMR.2016.2582261>
- Blokhin SA, Bobrov MA, Blokhin AA, Kuzmenkov AG, Vasil'Ev AP, Maleev NA, Dudelev VV, Soboleva KK, Sokolovskii GS, Rantamäki A, Okhotnikov O, Ustinov VM. 2016. 1.3 μm InAs quantum dot semiconductor disk laser. Paper presented at 2016 International Conference Laser Optics, LO 2016, St. Petersburg, Russian Federation. <https://doi.org/10.1109/LO.2016.7549727>
- Korobko DA, Okhotnikov OG, Sysoliatin AA, Zolotovskii IO. 2016. Advanced scheme of amplifier similariton laser. Paper presented at 2016 International Conference Laser Optics, LO 2016, St. Petersburg, Russian Federation. <https://doi.org/10.1109/LO.2016.7549889>
- Ustimchik VE, Vyatkin MY, Popov SM, Chamorovskii YK, Filippov VN, Nikitov SA. 2016. State of polarization in anisotropic tapered fiber with extremely large core diameter. Paper presented at 2016 International Conference Laser Optics, LO 2016, St. Petersburg, Russian Federation. <https://doi.org/10.1109/LO.2016.7549956>
- Dumitrescu M, Uusitalo T, Virtanen H, Laakso A, Bardella P, Montrosset I. 2016. Simulation of photon-photon resonance enhanced direct modulation bandwidth of DFB lasers. In 16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE. pp. 147-148. <https://doi.org/10.1109/NUSOD.2016.7547075>
- Virtanen H, Uusitalo T, Dumitrescu M. 2016. Simulation studies of DFB laser longitudinal structures for narrow linewidth emission. In 16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE. pp. 153-154. <https://doi.org/10.1109/NUSOD.2016.7547078>
- Uusitalo T, Virtanen H, Dumitrescu M. 2016. Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers. In 16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE. pp. 79-80. <https://doi.org/10.1109/NUSOD.2016.7547038>

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

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

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

Alekseev A, Ihalainen P, Ivanov A, Domnin I, Klechkovskaya V, Orekhov A, Lemmetyinen H, Vuorimaa-Laukkanen E, Peltonen J, Vyaz'min S. 2016. The red, purple and blue modifications of polymeric unsymmetrical hydroxyalkadiynyl-N-arylcarbamate derivatives in Langmuir-Schaefer films. *Thin Solid Films*. 612:463-471. <https://doi.org/10.1016/j.tsf.2016.06.044>

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

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

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

Ferracin P, Ambrosio G, Anerella M, Ballarino A, Bajas H, Bajko M, Bordini B, Bossert R, Cheng DW, Dietderich DR, Chlachidze G, Cooley L, Felice H, Ghosh A, Hafalia R, Holik E, Izquierdo Bermudez S, Fessia P, Grosclaude P, Guincharde M, Juchno M, Krave S, Lackner F, Marchevsky M, Marinuzzi V, Nobrega F, Oberli L, Pan H, Perez JC, Prin H, Rysti J, Rochepault E, Sabbi G, Salmi T, Schmalzle J, Sorbi M, Sequeira Tavares S, Todesco E, Wanderer P, Wang X, Yu M. 2016. Development of MQXF: The Nb₃Sn Low-β Quadrupole for the HiLumi LHC. *IEEE Transactions on Applied Superconductivity*. 26(4). <https://doi.org/10.1109/TASC.2015.2510508>

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

Marchevsky M, Turqueti M, Cheng DW, Felice H, Sabbi G, Salmi T, Stenvall A, Chlachidze G, Ambrosio G, Ferracin P, Izquierdo Bermudez S, Perez JC, Todesco E. 2016. Protection Heater Design Validation for the LARP Magnets Using Thermal Imaging. *IEEE Transactions on Applied Superconductivity*. 26(4). <https://doi.org/10.1109/TASC.2016.2530161>

Marinuzzi V, Ambrosio G, Ferracin P, Izquierdo Bermudez S, Rysti J, Salmi T, Sorbi M, Todesco E. 2016. Quench Protection Study of the Updated MQXF for the LHC Luminosity Upgrade (HiLumi LHC). *IEEE Transactions on Applied Superconductivity*. 26(4). <https://doi.org/10.1109/TASC.2016.2523548>

Akhmediev N, Kibler B, Baronio F, Belić M, Zhong WP, Zhang Y, Chang W, Soto-Crespo JM, Vouzas P, Grelu P, Lecaplain C, Hammani K, Rica S, Picozzi A, Tlidi M, Panajotov K, Mussot A, Bendahmane A, Szriftgiser P, Genty G, Dudley J, Kudlinski A, Demircan A, Morgner U, Amiranashvili S, Bree C, Steinmeyer G, Masoller C, Broderick NGR, Runge AFJ, Erkintalo M, Residori S, Bortolozzo U, Arecchi FT, Wabnitz S, Tiofack CG, Coulibaly S, Taki M. 2016. Roadmap on optical rogue waves and extreme events. *Journal of Optics*. 18(6). <https://doi.org/10.1088/2040-8978/18/6/063001>

DiMarco J, Ambrosio G, Anerella M, Bajas H, Chlachidze G, Borgnolutti F, Bossert R, Cheng D, Dietderich D, Felice H, Holik T, Pan H, Ferracin P, Ghosh A, Godeke A, Hafalia AR, Marchevsky M, Orris D, Ravaioli E, Sabbi G, Salmi T, Schmalzle J, Stoynev S, Strauss T, Sylvester C, Tartaglia M, Todesco E, Wanderer P, Wang X, Yu M. 2016. Test Results of the LARP Nb₃Sn Quadrupole HQ03a. *IEEE Transactions on Applied Superconductivity*. 26(4). <https://doi.org/10.1109/TASC.2016.2528283>

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

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

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

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

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

Şoltani I, Hraiech S, Horchani-Naifer K, Massera J, Petit L, Férid M. 2016. Thermal, structural and optical properties of Er³⁺ doped phosphate glasses containing silver nanoparticles. *Journal of Non-Crystalline Solids*. 438:67-73. <https://doi.org/10.1016/j.jnoncrysol.2015.12.022>

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

Escamez G, Sirois F, Lahtinen V, Stenvall A, Badel A, Tixador P, Ramdane B, Meunier G, Perrin-Bit R, Bruzek CÉ. 2016. 3-D Numerical Modeling of AC Losses in Multifilamentary MgB₂ Wires. *IEEE Transactions on Applied Superconductivity*. 26(3). <https://doi.org/10.1109/TASC.2016.2533024>

Kirby G, Rossi L, Badel A, Bajko M, Ballarino A, Bottura L, Dhallo M, Durante M, Fazilleau P, Fleiter J, Goldacker W, Härö E, Himbele J, Kario A, Langeslag S, Lorin C, Murtzomaki J, Van Nugteren J, De Rijk G, Salmi T, Senatore C, Stenvall A, Tixador P, Usoskin A, Volpini G, Yang Y, Zangenberg N. 2016. Status of the Demonstrator Magnets for the EuCARD-2 Future Magnets Project. *IEEE Transactions on Applied Superconductivity*. 26(3). <https://doi.org/10.1109/TASC.2016.2528544>

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

Mashayekhi M, Winchester L, Evans L, Pease T, Laurila M-M, Mäntysalo M, Ogier S, Teres L, Carrabina J. 2016. Evaluation of Aerosol, Superfine Inkjet, and Photolithography Printing Techniques for Metallization of Application Specific Printed Electronic Circuits. *IEEE Transactions on Electron Devices*. 63(3):1246-1253. <https://doi.org/10.1109/TED.2016.2522388>

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

Ali-Löytty H, Louie MW, Singh MR, Li L, Sanchez Casalongue HG, Ogasawara H, Crumlin EJ, Liu Z, Bell AT, Nilsson A, Friebel D. 2016. Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction. *Journal of Physical Chemistry C*. 120(4):2247-2253. <https://doi.org/10.1021/acs.jpcc.5b10931>

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

Pavelescu E-M, Polojärvi V, Schramm A, Tukiainen A, Aho A, Zhang W, Puustinen J, Salmi J, Guina M. 2016. 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*. 52:177-180. <https://doi.org/10.1016/j.optmat.2015.12.035>

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

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

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

Pirkkalainen H, Elovaara J, Korpinen L. 2016. 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*. 48:55-66.

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

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

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

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

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

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

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

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

Aalto T, Harjanne M, Offrein BJ, Caër C, Neumeyr C, Malacarne A, Guina M, Sheehan RN, Peters FH, Melanen P. 2016. Integrating III-V, Si, and polymer waveguides for optical interconnects: RAPIDO. In *Optical Interconnects XVI*. SPIE. (Proceedings of SPIE). <https://doi.org/10.1117/12.2214786>

- Laudyn UA, Kwaśny M, Jung PS, Trippenbach M, Assanto G, Karpierz MA. 2016. Linear and nonlinear light beam propagation in chiral nematic liquid crystal waveguides. *Photonics Letters of Poland*. 8(1):11-13. <https://doi.org/10.4302/plp.2016.1.05>
- Assanto G. 2016. Nonlinear optics applications: In memory of George I. Stegeman. *Photonics Letters of Poland*. 8(1):1. <https://doi.org/10.4302/plp.2016.1.01>
- Fotiadi AA, Korobko DA, Okhotnikov OG, Zolotovskii IO. 2016. Optical fiber amplifier with spectral compression elements for high-power laser pulse generation. In *Nonlinear Optics and its Applications IV*. SPIE. (Proceedings of SPIE). <https://doi.org/10.1117/12.2223637>
- Sakho EHM, Oluwafemi OS, Perumbilavil S, Philip R, Kala MS, Thomas S, Kalarikkal N. 2016. Rapid and facile synthesis of graphene oxide quantum dots with good linear and nonlinear optical properties. *Journal of Materials Science: Materials in Electronics*. 27(10):10926–10933. <https://doi.org/10.1007/s10854-016-5204-z>
- Frantc VA, Makov SV, Voronin VV, Marchuk VI, Semenishchev EA, Egiazarian KO, Agaian S. 2016. Simultaneous binary hash and features learning for image retrieval. In *Mobile Multimedia/Image Processing, Security, and Applications 2016*. SPIE. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2223605>
- Hakkarainen T, Tommila J, Schramm A, Simonen J, Niemi T, Strelow C, Kipp T, Kontio J, Guina M. 2016. Site-controlled InAs Quantum Dots for Plasmonics. In *Conference on Lasers and Electro-Optics 2016: QELS_Fundamental Science*. OSA - The Optical Society. https://doi.org/10.1364/CLEO_QELS.2016.FM1B.3
- Farooq A, Evreinov G, Raisamo R, Takahata D. 2015. Evaluating transparent liquid screen overlay as a haptic conductor: Method of enhancing touchscreen based user interaction by a transparent deformable liquid screen overlay. In *2015 IEEE SENSORS - Proceedings*. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/ICSENS.2015.7370186>
- Su W, Cooper JR, Cook BS, Tentzeris MM, Mariotti C, Roselli L. 2015. Inkjet-printed dual microfluidic-based sensor integrated system. In *2015 IEEE SENSORS - Proceedings*. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/ICSENS.2015.7370300>
- Auer S, Koho T, Uusi-Kerttula H, Vesikari T, Blazevic V, Hytönen VP. 2015. Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor. *Sensors and Actuators B: Chemical*. 221:507-514. <https://doi.org/10.1016/j.snb.2015.06.088>
- Nate K, Tentzeris MM. 2015. A novel 3-D printed loop antenna using flexible NinjaFlex material for wearable and IoT applications. In *2015 IEEE 24th Conference on Electrical Performance of Electronic Packaging and Systems, EPEPS 2015*. Institute of Electrical and Electronics Engineers Inc. pp. 171-174. <https://doi.org/10.1109/EPEPS.2015.7347155>
- Gadelovits S, Sitbon M, Suntio T, Kuperman A. 2015. Single-source multibattery solar charger: Case study and implementation issues. *Progress in Photovoltaics: Research and Applications*. 23(12):1916-1928. <https://doi.org/10.1002/pip.2591>
- Wang D, Wang Z, Yue Y, Yu J, Tan C, Li D, Qiu R, Maple C. 2015. Determination of beam incidence conditions based on the analysis of laser interference patterns. *Optik*. 126(21):2902-2907. <https://doi.org/10.1016/j.ijleo.2015.07.039>
- Kuzmin M, Laukkanen P, Yasir M, Mäkelä J, Tuominen M, Dahl J, Punkkinen MPJ, Kokko K, Hedman HP, Moon J, Punkkinen R, Polojärvi V, Korpijärvi VM, Guina M. 2015. 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*. 92(16). <https://doi.org/10.1103/PhysRevB.92.165311>
- Pyattaev A, Hosek J, Johnsson K, Krkos R, Gerasimenko M, Masek P, Ometov A, Andreev S, Sedy J, Novotny V, Koucheryavy Y. 2015. 3GPP LTE-assisted Wi-Fi-direct: Trial implementation of live D2D technology. *ETRI Journal*. 37(5):877-887. <https://doi.org/10.4218/etrij.15.2415.0003>

Tamminen P, Viheriäkoski T, Sydänheimo L, Ukkonen L. 2015. ESD qualification data used as the basis for building electrostatic discharge protected areas. *Journal of Electrostatics*. 77:174-181. <https://doi.org/10.1016/j.elstat.2015.08.009>

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

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

Mäkelä J, Tuominen M, Yasir M, Polojärvi V, Aho A, Tukiainen A, Kuzmin M, Punkkinen MPJ, Laukkanen P, Kokko K, Guina M. 2015. Effects of thinning and heating for TiO₂/AlInP junctions. *Journal of Electron Spectroscopy and Related Phenomena*. 205:6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>

Lepcha A, Maccato C, Mettenböcker A, Andreu T, Mayrhofer L, Walter M, Olthof S, Ruoko TP, Klein A, Moseler M, Meerholz K, Morante JR, Barreca D, Mathur S. 2015. Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance. *Journal of Physical Chemistry C*. 119(33):18835-18842. <https://doi.org/10.1021/acs.jpcc.5b02767>

Giannoulis G, Korpjärvi V-M, Iliadis N, Mäkelä J, Viheriälä J, Apostolopoulos D, Guina M, Avramopoulos H. 2015. Bringing High-Performance GaInNAsSb/GaAs SOAs to True Data Applications. *IEEE Photonics Technology Letters*. 27(16):1691-1694. <https://doi.org/10.1109/LPT.2015.2436697>

Baron A, Faggiani R, Zang X, Lalouat L, Schulz SA, Vynck K, O'Regan B, Cluzel B, De Fornel F, Krauss TF, Lalanne P. 2015. Localization of light at vanishingly small disorder-levels with heavy photons. In 2015 Conference on Lasers and Electro-Optics, CLEO 2015. Optical Society of America OSA. https://doi.org/10.1364/CLEO_QELS.2015.FW1C.4

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

Kanerva U, Suhonen T, Lagerbom J, Levänen E. 2015. Evaluation of crushing strength of spray-dried MgAl₂O₄ granule beds. *Ceramics International*. 41(7):8494-8500. <https://doi.org/10.1016/j.ceramint.2015.03.056>

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

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

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

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

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

Kirby GA, Van Nugteren J, Ballarino A, Bottura L, Chouika N, Clement S, Datskov V, Fajardo L, Fleiter J, Gauthier R, Gentini L, Lambert L, Lopes M, Perez JC, De Rijk G, Rijllart A, Rossi L, Ten Kate H, Durante M, Fazilleau P, Lorin C, Härö E, Stenvall A, Caspi S, Marchevsky M, Goldacker W, Kario A. 2015. Accelerator-quality HTS dipole magnet demonstrator designs for the EuCARD-2 5-T 40-mm clear aperture magnet. *IEEE Transactions on Applied Superconductivity*. 25(3). <https://doi.org/10.1109/TASC.2014.2361933>

Borah D, Rasappa S, Salaun M, Zellsman M, Lorret O, Lontos G, Ntetsikas K, Avgeropoulos A, Morris MA. 2015. 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*. 25(22):3425-3432. <https://doi.org/10.1002/adfm.201500100>

Marinozzi V, Ambrosio G, Bellomo G, Chlachidze G, Felice H, Marchevsky M, Salmi T, Sorbi M, Todesco E. 2015. Study of quench protection for the Nb₃Sn low-β quadrupole for the LHC luminosity upgrade (HiLumi-LHC). *IEEE Transactions on Applied Superconductivity*. 25(3). <https://doi.org/10.1109/TASC.2014.2383435>

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

Bajas H, Ambrosio G, Anerella M, Bajko M, Bossert R, Bottura L, Caspi S, Cheng D, Chiuchiolo A, Chlachidze G, Dietderich D, Felice H, Ferracin P, Feuvrier J, Ghosh A, Giloux C, Godeke A, Hafalia AR, Marchevsky M, Ravaioli E, Sabbi GL, Salmi T, Schmalzle J, Todesco E, Wanderer P, Wang X, Yu M. 2015. Test results of the LARP HQ02b magnet at 1.9 K. *IEEE Transactions on Applied Superconductivity*. 25(3). <https://doi.org/10.1109/TASC.2014.2378375>

Rossi L, Badel A, Bajko M, Ballarino A, Bottura L, Dhallé MMJ, Durante M, Fazilleau P, Fleiter J, Goldacker W, Härö E, Kario A, Kirby G, Lorin C, Van Nugteren J, De Rijk G, Salmi T, Senatore C, Stenvall A, Tixador P, Usoskin A, Volpini G, Yang Y, Zangenberg N. 2015. The EuCARD-2 future magnets European collaboration for accelerator-quality HTS magnets. *IEEE Transactions on Applied Superconductivity*. 25(3). <https://doi.org/10.1109/TASC.2014.2364215>

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

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

Lahtinen V, Stenvall A, Sirois F, Pellikka M. 2015. 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*. 28(8):2345-2354 . <https://doi.org/10.1007/s10948-015-3074-x>

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

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

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

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

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

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

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

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

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

Miller TL, Ärrälä M, Smallwood CL, Zhang W, Hafiz H, Barbiellini B, Kurashima K, Adachi T, Koike Y, Eisaki H, Lindroos M, Bansil A, Lee DH, Lanzara A. 2015. Resolving unoccupied electronic states with laser ARPES in bismuth-based cuprate superconductors. *Physical Review B*. 91(8). <https://doi.org/10.1103/PhysRevB.91.085109>

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

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

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

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

Heiskanen JP, Manninen VM, Pankov D, Omar WAE, Kastinen T, Hukka TI, Lemmetyinen HJ, Hormi OEO. 2015. Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells. *Thin Solid Films*. 574:196-206. <https://doi.org/10.1016/j.tsf.2014.12.007>

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

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

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

- Battisti F, Carli M, Stramacci A, Boev A, Gotchev A. 2015. A perceptual quality metric for high-definition stereoscopic 3D video. In *Image Processing: Algorithms and Systems XIII*. SPIE. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2086901>
- Lukin VV, Ponomarenko NN, Ieremeiev O, Egiazarian K, Astola J. 2015. Combining full-reference image visual quality metrics by neural network. In *Proceedings of SPIE - The International Society for Optical Engineering*. SPIE. <https://doi.org/10.1117/12.2085465>
- Voronin VV, Marchuk VI, Fisunov AV, Tokareva SV, Egiazarian KO. 2015. Depth map occlusion filling and scene reconstruction using modified exemplar-based inpainting. In *Image Processing: Algorithms and Systems XIII*. SPIE. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2076506>
- Zolotovskii IO, Korobko DA, Okhotnikov OG. 2015. Frequency modulation of semiconductor disk laser pulses. *Quantum Electronics*. 45(7):628-634. <https://doi.org/10.1070/QE2015v045n07ABEH015670>
- Zolotovskii IO, Korobko DA, Okhotnikov OG, Stolyarov DA, Sysolyatin AA. 2015. Generation of a broad IR spectrum and N-soliton compression in a longitudinally inhomogeneous dispersion-shifted fibre. *Quantum Electronics*. 45(9):844-852. <https://doi.org/10.1070/QE2015v045n09ABEH015690>
- Zolotovskii IO, Korobko DA, Gumenyuk RV, Okhotnikov OG. 2015. Generation of bound states of pulses in a soliton laser with complex relaxation of a saturable absorber. *Quantum Electronics*. 45(1):26-34. <https://doi.org/10.1070/QE2015v045n01ABEH015558>
- Ledentsov NN, Shchukin VA, Lyytikäinen J, Okhotnikov O, Cherkashin NA, Shernyakov YM, Payusov AS, Gordeev NY, Maximov MV, Schlichting S, Nippert F, Hoffmann A. 2015. Green (In,Ga,Al)P-GaP light-emitting diodes grown on high-index GaAs surfaces. In *Proceedings of SPIE: Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XIX*. SPIE. <https://doi.org/10.1117/12.2083953>
- Leinonen T, Penttinen JP, Korpjärvi VM, Kantola E, Guina M. 2015. >8W GaInNAs VECSEL emitting at 615 nm. In *Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) V*. SPIE. <https://doi.org/10.1117/12.2079162>
- Leroy HA, Vermandel M, Tétard MC, Lejeune JP, Mordon S, Reyns N. 2015. Interstitial photodynamic therapy and glioblastoma: Light fractionation study on a preclinical model: Preliminary results. In *Optical Techniques in Neurosurgery, Neurophotonics, and Optogenetics II*. SPIE. <https://doi.org/10.1117/12.2079347>
- Frosio I, Egiazarian K, Pulli K. 2015. Machine learning for adaptive bilateral filtering. In *Image Processing: Algorithms and Systems XIII*. SPIE. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2077733>
- Ye C, Koponen J, Aallos V, Kokki T, Petit L, Kimmelma O. 2015. Measuring bend losses in large-mode-area fibers. In *Fiber Lasers XII: Technology, Systems, and Applications*. SPIE. <https://doi.org/10.1117/12.2076813>
- Korpjärvi V-M, Kantola EL, Leinonen T, Guina M. 2015. Monolithic GaInNAsSb/GaAs VECSEL emitting at 1550 nm. In *SPIE conference proceedings*. SPIE. <https://doi.org/10.1117/12.2077517>
- Huttunen MJ, Partanen M, Bautista G, Chu S-W, Kauranen M. 2015. Nonlinear optical activity effects in complex anisotropic three-dimensional media. *Optical Materials Express*. 5(1):11-21. <https://doi.org/10.1364/OME.5.000011>
- Voronin VV, Frantc VA, Marchuk VI, Sherstobitov AI, Egiazarian K. 2015. No-reference visual quality assessment for image inpainting. In *Image Processing: Algorithms and Systems XIII*. SPIE. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2076507>

Heikkinen J, Gumenyuk R, Rantamäki A, Lyytikäinen J, Leinonen T, Zolotovskii I, Melkumov M, Dianov EM, Okhotnikov OG. 2015. Power and wavelength scaling using semiconductor disk laser - bismuth fiber MOPA systems. Guina M, editor. In Vertical External Cavity Surface Emitting Lasers (VECSELs) V. BELLINGHAM: SPIE. (Proceedings of SPIE). <https://doi.org/10.1117/12.2076805>

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

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

Wang Y, Xie G, Xu X, Di J, Qin Z, Suomalainen S, Guina M, Härkönen A, Agnesi A, Griebner U, Mateos X, Loiko P, Petrov V. 2015. SESAM mode-locked Tm: CALGO laser at 2 μ m. In Advanced Solid State Lasers, ASSL 2015. Optical Society of America OSA. <https://doi.org/10.1364/ASSL.2015.AW1A.2>

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

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

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

Dutta R, Friberg AT, Genty G, Turunen J. 2015. 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*. 32(9):1631-1637. <https://doi.org/10.1364/JOSAA.32.001631>

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

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

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

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

Moradi E, Koski K, Björninen T, Muller R, Ledochowitsch P, Sydänheimo L, Alon E, Maharbiz MM, Rabaey JM, Ukkonen L, Rahmat-Samii Y. 2014. Advances in implantable and wearable antennas for wireless brain-machine interface systems. In 2014 United States National Committee of URSI National Radio Science Meeting, USNC-URSI NRS 2014. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/USNC-URSI-NRS.2014.6928137>

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

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

Lång JJK, Punkkinen MPJ, Tuominen M, Hedman HP, Vähä-Heikkilä M, Polojärvi V, Salmi J, Korpjärvi VM, Schulte K, Kuzmin M, Punkkinen R, Laukkanen P, Guina M, Kokko K. 2014. Unveiling and controlling the electronic structure of oxidized semiconductor surfaces: Crystalline oxidized InSb(100)(1 × 2)-O: Crystalline oxidized InSb(100)(1 × 2)-O. *Physical Review B*. 90(4):1-9. <https://doi.org/10.1103/PhysRevB.90.045312>

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

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

Bourhis K, Boetti NG, Koponen J, Milanese D, Petit L. 2014. Influence of the P2O5/Al2O3 co-doping on the local environment of erbium ions and on the 1.5 μm quantum efficiency of Er3+-borosilicate glasses. *Optical Materials*. 36(5):926-931. <https://doi.org/10.1016/j.optmat.2013.12.035>

Khan MN, Zharnikov M. 2014. Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents. *Journal of Physical Chemistry C*. 118(6):3093-3101. <https://doi.org/10.1021/jp411353f>

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

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

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

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

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

Jung KY, Yoon WJ, Park YB, Berger PR, Teixeira FL. 2014. Broadband finite-Difference Time-Domain modeling of plasmonic organic photovoltaics. *ETRI Journal*. 36(4):654-661. <https://doi.org/10.4218/14.0113.0767>

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

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

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

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

Wang Q, Sun Z, Rotenberg E, Ronning F, Bauer ED, Lin H, Markiewicz RS, Lindroos M, Barbiellini B, Bansil A, Dessau DS. 2013. Symmetry-broken electronic structure and uniaxial Fermi surface nesting of untwinned CaFe₂As₂. Physical Review B. 88(23). <https://doi.org/10.1103/PhysRevB.88.235125>

Khan MN, Zharnikov M. 2013. Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation. Journal of Physical Chemistry C. 117(47):24883-24893. <https://doi.org/10.1021/jp408819k>

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

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

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

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

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

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

Şahin E, Onural L. 2013. 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. 30(3):527-536.

Bajas H, Ambrosio G, Anerella M, Bajko M, Bossert R, Caspi S, Chiuchiolo A, Chlachidze G, Dieterich D, Dunkel O, Felice H, Ferracin P, Feuvrier J, Fiscarelli L, Ghosh A, Giloux C, Godeke A, Hafalia AR, Marchevsky M, Russenschuck S, Sabbi GL, Salmi T, Schmalzle J, Todesco E, Wanderer P, Wang X, Yu M. 2013. Cold test results of the LARP HQ Nb₃Sn quadrupole magnet at 1.9 K. IEEE Transactions on Applied Superconductivity. 23(3). <https://doi.org/10.1109/TASC.2013.2245281>

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

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

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

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

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

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

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

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

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

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

Rasappa S, Borah D, Sentharamaikannan R, Faulkner CC, Shaw MT, Gleeson P, Holmes JD, Morris MA. 2012. Block copolymer lithography: Feature size control and extension by an over-etch technique. *Thin Solid Films*. 522:318-323. <https://doi.org/10.1016/j.tsf.2012.09.017>

Kapgate BP, Das C, Das A, Basu D, Reuter U, Heinrich G. 2012. 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*. 63(3):501-509. <https://doi.org/10.1007/s10971-012-2812-9>

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

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

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

Priimagi A, Cavallo G, Forni A, Gorynsztejn-Leben M, Kaivola M, Metrangolo P, Milani R, Shishido A, Pilati T, Resnati G, Terraneo G. 2012. Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers. *Advanced Functional Materials*. 22(12):2572-2579. <https://doi.org/10.1002/adfm.201200135>

- Ramesh A, Growden TA, Berger PR, Loo R, Vandervorst W, Douhard B, Caymax M. 2012. Boron delta-doping dependence on Si/SiGe resonant interband tunneling diodes grown by chemical vapor deposition. *IEEE Transactions on Electron Devices*. 59(3):602-609. <https://doi.org/10.1109/TED.2011.2180532>
- Cuyon L, Lesage JC, Betrouni N, Mordon S. 2012. Development of a new illumination procedure for photodynamic therapy of the abdominal cavity. *JOURNAL OF BIOMEDICAL OPTICS*. 17(3). <https://doi.org/10.1117/1.JBO.17.3.038001>
- Viitala M, Kuisma M, Rantala TT. 2012. Physisorption of benzene on a tin dioxide surface: Van der Waals interaction. *Physical Review B*. 85(8):1-5. <https://doi.org/10.1103/PhysRevB.85.085412>
- Koskela JE, Vapaavuori J, Hautala J, Priimagi A, Faul CFJ, Kaivola M, Ras RHA. 2012. Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes. *Journal of Physical Chemistry C*. 116(3):2363-2370. <https://doi.org/10.1021/jp210706n>
- Heikkinen JJ, Kivimäki L, Hytönen VP, Kulomaa MS, Hormi OEO. 2012. Printable and flexible macroporous organosilica film with high protein adsorption capacity. *Thin Solid Films*. 520(6):1934-1937. <https://doi.org/10.1016/j.tsf.2011.09.041>
- Assanto G, Piccardi A, Barboza R, Alberucci A. 2012. Electro-optic steering of nematicons. *Photonics Letters of Poland*. 4(1):2-4. <https://doi.org/10.4302/plp.2012.1.02>
- Rasilo P, Belahcen A, Arkkio A. 2012. Importance of iron-loss modeling in simulation of wound-field synchronous machines. *IEEE Transactions on Magnetics*. 48(9):2495-2504. <https://doi.org/10.1109/TMAG.2012.2195190>
- Le T, Lakafosis V, Lin Z, Wong CP, Tentzeris MM. 2012. Inkjet-printed graphene-based wireless gas sensor modules. In 2012 IEEE 62nd Electronic Components and Technology Conference, ECTC 2012. pp. 1003-1008. <https://doi.org/10.1109/ECTC.2012.6248958>
- Busacca AC, Stivala S, Curcio L, Assanto G. 2012. Parametric conversion in micrometer and submicrometer structured ferroelectric crystals by surface poling. *International Journal of Optics*. 2012. <https://doi.org/10.1155/2012/606892>
- De Donno D, Tarricone L, Catarinucci L, Lakafosis V, Tentzeris MM. 2012. Performance enhancement of the RFID EPC Gen2 protocol by exploiting collision re-recovery. *Progress in Electromagnetics Research B*. (43):53-72.
- Yi X, Vyas R, Cho C, Fang CH, Cooper J, Wang Y, Leon RT, Tentzeris MM. 2012. Thermal effects on a passive wireless antenna sensor for strain and crack sensing. In *Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2012*. <https://doi.org/10.1117/12.914833>
- Iliopoulos K, Czaplicki R, Ouazzani HE, Balandier J-Y, Chas M, Goeb S, Sallé M, Gindre D, Sahraoui B. 2012. Third order nonlinear optical response of TTF-based molecular corners. *Nonlinear Optics, Quantum Optics*. 43(1-4):205-212.
- Ouskova E, Vapaavuori J, Kaivola M. 2011. Self-orienting liquid crystal doped with polymer-azo-dye complex. *Optical Materials Express*. 1(8):1463-1470.
- Wang J, Ray AK. 2011. Adsorption and dissociation of molecular oxygen on α -Pu (0 2 0) surface: A density functional study. *Physica B: Condensed Matter*. 406(17):3285-3294. <https://doi.org/10.1016/j.physb.2011.05.041>
- Sorianello V, Colace L, Armani N, Rossi F, Ferrari C, Lazzarini L, Assanto G. 2011. Low-temperature germanium thin films on silicon. *Optical Materials Express*. 1(5):856-865. <https://doi.org/10.1364/OME.1.000856>
- Sorianello V, Colace L, Nardone M, Assanto G. 2011. Thermally evaporated single-crystal Germanium on Silicon. *Thin Solid Films*. 519(22):8037-8040. <https://doi.org/10.1016/j.tsf.2011.06.023>

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

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

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

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

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

Musgraves JD, Carlie N, Hu J, Petit L, Agarwal A, Kimerling LC, Richardson KA. 2011. 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*. 59(12):5032-5039. <https://doi.org/10.1016/j.actamat.2011.04.060>

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

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

Borah D, Shaw MT, Rasappa S, Farrell RA, O'Mahony C, Faulkner CM, Bosea M, Gleeson P, Holmes JD, Morris MA. 2011. Plasma etch technologies for the development of ultra-small feature size transistor devices. *Journal of Physics D: Applied Physics*. 44(17). <https://doi.org/10.1088/0022-3727/44/17/174012>

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

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

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

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

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

- Gupta SK, Wu HH, Kwak KJ, Casal P, Nicholson TR, Wen X, Anisha R, Bhushan B, Berger PR, Lu W, Brillson LJ, Lee SC. 2011. Interfacial design and structure of protein/polymer films on oxidized AlGaN surfaces. *Journal of Physics D: Applied Physics*. 44(3). <https://doi.org/10.1088/0022-3727/44/3/034010>
- Chang B, Sariola V, Jääskeläinen M, Zhou Q. 2011. Self-alignment in the stacking of microchips with mist-induced water droplets. *Journal of Micromechanics and Microengineering*. 21(1). <https://doi.org/10.1088/0960-1317/21/1/015016>
- Beck S, Kim ST, Lim K, Tentzeris MM, Laskar J. 2011. A multi-band WCDMA SAW-less receivers with frequency selective feedback loop. In 54th IEEE International Midwest Symposium on Circuits and Systems, MWSCAS 2011. <https://doi.org/10.1109/MWSCAS.2011.6026387>
- Cakmakyapan S, Caglayan H, Serebryannikov A, Ozbay E. 2011. Directional selectivity through the subwavelength slit in metallic gratings. In 2011 Conference on Lasers and Electro-Optics: Laser Science to Photonic Applications, CLEO 2011.
- Colace L, Sorianello V, Maragliano C, Assanto G, Fulgoni D, Nash L, Palmer M. 2011. Germanium-on-glass solar cells. In 8th IEEE International Conference on Group IV Photonics, GFP 2011. pp. 255-257. <https://doi.org/10.1109/GROUP4.2011.6053781>
- Sapaev UK, Yusupov DB, Assanto G. 2011. Multicolor nonlinear pulse compression by consecutive optical parametric amplification in quasi-phase matched structures. In ICONO 2010: International Conference on Coherent and Nonlinear Optics. <https://doi.org/10.1117/12.882887>
- Colace L, Scacchi A, Assanto G. 2011. Noise characterization of Ge/Si photodetectors. In 8th IEEE International Conference on Group IV Photonics, GFP 2011. pp. 290-292. <https://doi.org/10.1109/GROUP4.2011.6053793>
- Dejean G, Lakafosis V, Traille A, Lee H, Gebara E, Tentzeris M, Kirovski D. 2011. RFDNA: A wireless authentication system on flexible substrates. In 2011 IEEE 61st Electronic Components and Technology Conference, ECTC 2011. pp. 1332-1337. <https://doi.org/10.1109/ECTC.2011.5898684>
- Yi X, Wu T, Lantz G, Wang Y, Leon RT, Tentzeris MM. 2011. Thickness variation study of RFID-based folded patch antennas for strain sensing. In Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2011. <https://doi.org/10.1117/12.879868>
- Rondin L, Dantelle G, Slablab A, Grosshans F, Treussart F, Bergonzo P, Perruchas S, Gacoin T, Chaigneau M, Chang HC, Jacques V, Roch JF. 2010. Surface-induced charge state conversion of nitrogen-vacancy defects in nanodiamonds. *Physical Review B*. 82(11). <https://doi.org/10.1103/PhysRevB.82.115449>
- Fonteyn K, Belahcen A, Kouhia R, Rasilo P, Arkkio A. 2010. FEM for directly coupled magneto-mechanical phenomena in electrical machines. *IEEE Transactions on Magnetics*. 46(8):2923-2926. <https://doi.org/10.1109/TMAG.2010.2044148>
- Caglayan H, Özbay E. 2010. Observation of cavity structures in composite metamaterials. *Journal of Nanophotonics*. 4(1). <https://doi.org/10.1117/1.3475763>
- Assanto G, Piccardi A, Alberucci A, Residori S, Bortolozzo U. 2009. Liquid crystal light valves: A versatile platform for nematicons. *Photonics Letters of Poland*. 1(4):151-153. <https://doi.org/10.4302/plp.2009.4.03>
- Caglayan H, Bulu I, Ozbay E. 2009. Observation of off-axis directional beaming via subwavelength asymmetric metallic gratings. *Journal of Physics D: Applied Physics*. 42(4). <https://doi.org/10.1088/0022-3727/42/4/045105>
- Slablab A, Le Xuan L, Zhou C, Chauvat D, De Wilde Y, Perruchas S, Tard C, Gacoin T, Villeval P, Roch JF. 2009. Single KTiOPO4 nanocrystals for nonlinear probing of local optical fields and interaction with a metallic nanostructure. In CLEO/Europe - EQEC 2009 - European Conference on Lasers and Electro-Optics and the European Quantum Electronics Conference. <https://doi.org/10.1109/CLEOE-EQEC.2009.5192089>

- Caglayan H, Ozbay E. 2009. The magical world of metamaterials. In *Photonic Materials, Devices, and Applications III*. (Proceedings of SPIE). <https://doi.org/10.1117/12.821407>
- Caglayan H, Bulu I, Loncar M, Ozbay E. 2008. Cavity formation in split ring resonators. *Photonics and Nanostructures - Fundamentals and Applications*. 6(3-4):200-204. <https://doi.org/10.1016/j.photonics.2008.09.001>
- Özbay E, Bulu I, Caglayan H. 2007. Transmission, refraction, and focusing properties of labyrinth based left-handed metamaterials. *Physica Status Solidi (B) Basic Research*. 244(4):1202-1210. <https://doi.org/10.1002/pssb.200674507>
- Qu Y, Soininen JP, Nurmi J. 2007. A genetic algorithm for scheduling tasks onto dynamically reconfigurable hardware. In *2007 IEEE International Symposium on Circuits and Systems*. pp. 161-164. <https://doi.org/10.1109/ISCAS.2007.378246>
- Qu Y, Tiensyrjä K, Soininen JP, Nurmi J. 2007. System-level design for partially reconfigurable hardware. In *2007 IEEE International Symposium on Circuits and Systems*. pp. 2738-2741. <https://doi.org/10.1109/ISCAS.2007.378619>
- Bulu I, Caglayan H, Ozbay E. 2006. Designing materials with desired electromagnetic properties. *Microwave and Optical Technology Letters*. 48(12):2611-2615. <https://doi.org/10.1002/mop.21988>
- Ozbay E, Bulu I, Caglayan H. 2006. Labyrinth based left-handed metamaterials and sub-wavelength focusing of electromagnetic waves. In *Photonic Crystal Materials and Devices IV*. (Proceedings of SPIE). <https://doi.org/10.1117/12.649548>
- Peccianti M, Alberucci A, Assanto G, De Luca A, Coschignano G, Umetsu C. 2005. Walking anisotropic spatial solitons and their steering in nematic liquid crystals. In *Nonlinear Guided Waves and Their Applications, NLGW 2005*. Optical Society of America OSA. <https://doi.org/10.1364/NLGW.2005.FA1>
- Ozbay E, Bulu I, Aydin K, Caglayan H, Guven K. 2004. Physics and applications of photonic crystals. *Photonics and Nanostructures - Fundamentals and Applications*. 2(2):87-95. <https://doi.org/10.1016/j.photonics.2004.08.001>
- Bulu I, Caglayan H, Ozbay E. 2003. Radiation properties of sources inside photonic crystals. *Physical Review B - Condensed Matter and Materials Physics*. 67(20). <https://doi.org/10.1103/PhysRevB.67.205103>
- Kariniemi H, Nurmi J, Fagerlund P, Liitola J, Alinikula J. 2002. ATM switch for 2.488 Gbit/s CATV network on FPGA with a high-throughput buffering architecture. In *Midwest Symposium on Circuits and Systems*. <https://doi.org/10.1109/MWSCAS.2002.1186814>
- Koivusaari KJ, Rantala TT, Leppävuori S. 2000. Calculated electronic density of states and structural properties of tetrahedral amorphous carbon. *Diamond and Related Materials*. 9(3):736-740. [https://doi.org/10.1016/S0925-9635\(99\)00286-1](https://doi.org/10.1016/S0925-9635(99)00286-1)
- Valkealahti S, Manninen M. 1998. Diffusion on aluminum-cluster surfaces and the cluster growth. *Physical Review B - Condensed Matter and Materials Physics*. 57(24):15533-15540. <https://doi.org/10.1103/PhysRevB.57.15533>
- Kantola JH, Vaara J, Rantala TT, Jokisaari J. 1996. Molecular dynamics simulations for Xe absorbed in zeolites. Kaxiras E, Joannopoulos J, Vashishta P, Kalia RK, editors. In *Materials Research Society Symposium - Proceedings*. MATERIALS RESEARCH SOCIETY. pp. 599-604. <https://doi.org/10.1557/PROC-408-599>
- Vehviläinen J, Nurmi J. 1995. Processor core for 32 kbit/s G.726 ADPCM codecs. In *1995 IEEE International Symposium on Circuits and Systems*. ISCAS '95. IEEE. pp. 1932-1935. <https://doi.org/10.1109/ISCAS.1995.523797>

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

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

Valkealahti S, Welch DO. 1989. Theoretical studies of structural properties of the high- T_c superconductor $Y_1Ba_2Cu_3O_{7-x}$. *Physica C: Superconductivity and its Applications*. 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)

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

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