

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>

Peccianti M, Alberucci A, Assanto G, De Luca A, Coschignano G, Umeton 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>

Izdebskaya Y, Krolikowski 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>

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>

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>

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>

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>

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 Si O₂ glass with dense pyrite-type crystalline homology. *Physical Review B*. 99(4). <https://doi.org/10.1103/PhysRevB.99.045153>

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.

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>

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>

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>

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>

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

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>

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>

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>

Hongisto M, Veber A, Boetti NG, Danto S, Jubera V, Petit L. 2020. Transparent Yb³⁺ doped phosphate glass-ceramics. *Ceramics International*. <https://doi.org/10.1016/j.ceramint.2020.01.121>

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>

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>

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>

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>

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>

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>

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.

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>

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>

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.jnoncrsol.2015.12.022>

- 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>
- 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>
- Kylänpää I, Cavaliere F, Ziani NT, Sassetti 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>
- 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>
- 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>
- 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)
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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 Cr_3C_2 -Ni nanopowder. *Ceramics International*. 44(8):9338-9346. <https://doi.org/10.1016/j.ceramint.2018.02.146>

Tommasini D, Auchmann B, Bajas H, Bajko M, Ballarino A, Bellomo G, Benedikt M, Bermudez SI, Bordini B, Bottura L, Buzio M, Dhallo 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>

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>

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, Fevrier 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>

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>

Henno J, Jaakkola H, Mäkelä J. 2019. Teaching for virtual work. Skala K, Car Z, Pale P, Huljenic D, Janjic M, Koricic M, Sruc V, Ribaric S, Grbac TG, Butkovic Z, Cicin-Sain M, Skvorc D, Mauher M, Babic S, Gros S, Vrdoljak B, Tijan E, 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>

Sautter J, Xu L, Miroshnichenko A, Lysevych M, Volkovskaya I, Smirnova D, Camacho Morales M, Zangeneh Kamali K, Karouta F, Vora K, Tan HH, Kauranen M, Staude I, Jagadish C, Neshev DN, Rahmani M. 2019. Tailoring directional scattering of second-harmonic generation from (111)-GaAs nanoantennas. Mitchell A, Rubinsztein-Dunlop H, editors. In AOS Australian Conference on Optical Fibre Technology, ACOFT 2019 and Australian Conference on Optics, Lasers, and Spectroscopy, ACOLS 2019. SPIE. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2539086>

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>

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>

Xu L, Saerens G, Timofeeva M, Miroshnichenko AE, Camacho-Morales R, Volkovskaya I, Smirnova DA, Lysevych M, Huang L, Cai M, Karouta F, Hoe Tan H, Kauranen M, Jagadish C, Grange R, Neshev DN, Rahmani M. 2019. Switchable unidirectional second-harmonic emission through GaAs nanoantennas. Mitchell A, Rubinsztein-Dunlop H, editors. In AOS Australian Conference on Optical Fibre Technology, ACOFT 2019 and Australian Conference on Optics, Lasers, and Spectroscopy, ACOLS 2019. SPIE. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2539887>

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>

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>

- 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>
- Julku A, Peltonen TJ, Liang L, Heikkilä TT, Törmä P. 2020. Superfluid weight and Berezinskii-Kosterlitz-Thouless transition temperature of twisted bilayer graphene. *Physical Review B*. 101(6). <https://doi.org/10.1103/PhysRevB.101.060505>
- 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>
- 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>
- Salmi T, Prioli M, Stenvall A, Ruuskanen J, Verweij AP, Auchmann B, Marinuzzi V. 2017. Suitability of Different Quench Protection Methods for a 16 T Block-Type Nb₃Sn Accelerator Dipole Magnet. *IEEE Transactions on Applied Superconductivity*. 27(4). <https://doi.org/10.1109/TASC.2017.2651386>
- Lyly M, Krooshoop E, Lübkemann 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>
- 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
- Bitarafan MH, Suomala S, Toivonen J. 2020. Sub-microwatt direct laser writing of fluorescent gold nanoclusters in polymer films. *Optical Materials Express*. 10(1):138-148. <https://doi.org/10.1364/OME.381901>
- 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>
- 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>
- 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
- 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>
- Marinuzzi 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>
- Tainio JM, Salazar DAA, Nommeots-Nomm A, Roiland C, Bureau B, Neuville DR, Brauer DS, Massera J. 2020. Structure and in vitro dissolution of Mg and Sr containing borosilicate bioactive glasses for bone tissue engineering. *Journal of Non-Crystalline Solids*. 533. <https://doi.org/10.1016/j.jnoncrysol.2020.119893>

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>

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>

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>

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

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>

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>

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>

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>

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>

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

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).

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>

Kolesnik S, Sitbon M, Lineykin S, Batzelis E, Papatthanassiou 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>

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>

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

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>

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>

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>

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>

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>

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>

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>

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>

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>

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

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 μm . In *Advanced Solid State Lasers, ASSL 2015*. Optical Society of America OSA. <https://doi.org/10.1364/ASSL.2015.AW1A.2>

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>

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

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

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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

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

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>

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>

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

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>

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>

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>

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>

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>

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>

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>

Marinozzi 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>

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 θ Dipole for the Future Circular Collider (FCC). *IEEE Transactions on Applied Superconductivity*. 27(4). <https://doi.org/10.1109/TASC.2017.2656156>

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>

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>

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>

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

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

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, Guincharde 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>

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>

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>

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>

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>

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>

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>

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>

- Kleiven D, Akola J. 2020. Precipitate formation in aluminium alloys: Multi-scale modelling approach. *Acta Materialia*. 195:123-131. <https://doi.org/10.1016/j.actamat.2020.05.050>
- Donmez O, Aydin M, Ardali, Yildirim S, Tiraş E, Erol A, Puustinen J, Hilska J, Guina M. 2020. Power loss mechanisms in n-type modulation-doped AlGaAs/GaAsBi quantum well heterostructures. *Semiconductor Science and Technology*. 35(9). <https://doi.org/10.1088/1361-6641/ab94d9>
- 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>
- 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>
- Yildiz BC, Bek A, Tasgin ME. 2020. Plasmon lifetime enhancement in a bright-dark mode coupled system. *Physical Review B*. 101(3). <https://doi.org/10.1103/PhysRevB.101.035416>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>

- 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>
- 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>
- 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>
- 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>
- 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>
- Sahin E, Akpınar U, Gotchev A. 2019. Phase-coded computational imaging for depth of field extension. In *Proceedings - Digital Holography and Three-Dimensional Imaging 2019*. Optical Society of America.
- 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>
- Raappana M, Aho A, Aho T, Isoaho R, Anttola E, Kajas N, Polojärvi V, Tukiainen A, Guina M. 2019. Performance of Solar Cell Grids based on Ag, Au, and Al for Cost-Effective Manufacturing. In *2019 European Space Power Conference (ESPC)*. IEEE. <https://doi.org/10.1109/ESPC.2019.8932002>
- 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.
- 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>
- Mehmood A, Vianto V, He H, Chen X, Buruk OO, Ukkonen L, Virkki J. 2019. Passive UHF RFID-based user interface on a wooden surface. In *2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings*. IEEE. pp. 1760-1763. <https://doi.org/10.1109/PIERS-Fall48861.2019.9021441>
- Salpavaara T, Järveläinen M, Seppälä S, Yli-Hallila T, Verho J, Viikko 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>
- 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>
- 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>
- 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>

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>

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>

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>

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>

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>

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>

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>

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>

Kuzmin M, Laukkanen P, Yasir M, Mäkelä J, Tuominen M, Dahl J, Punkkinen MPJ, Kokko K, Hedman HP, Moon J, Punkkinen R, Polojärvi V, Korpjärvi 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>

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>

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>

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>

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

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>

- Luo Z, Bao Q, Caglayan H, Jia B, Zhang H. 2020. Novel optical and photonic devices based on 2D materials: Feature issue introduction. *Optical Materials Express*. 10(6):1344-1345. <https://doi.org/10.1364/OME.396413>
- 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>
- 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>
- 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>
- Del Cerro PR, Teittinen H, Norrbo I, Lastusaari M, Massera J, Petit L. 2020. Novel borosilicate bioactive scaffolds with persistent luminescence. *Biomedical Glasses*. 6(1):1-9. <https://doi.org/10.1515/bglass-2020-0001>
- 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>
- 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>
- 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>
- 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>
- Assanto G, Smyth NF. 2016. Nonlinear guided waves: Preface. *Journal of Nonlinear Optical Physics and Materials*. 25(4). <https://doi.org/10.1142/S0218863516500417>
- 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>
- Vimieiro RB, Borges LR, Caron RF, Barufaldi B, Bakic PR, Maidment ADA, Vieira MAC. 2019. Noise measurements from reconstructed digital breast tomosynthesis. Schmidt TG, Chen G-H, Bosmans H, editors. In *Medical Imaging 2019: Physics of Medical Imaging*. SPIE, IEEE. (Progress in Biomedical Optics and Imaging - Proceedings of SPIE). <https://doi.org/10.1117/12.2512977>
- 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>
- 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.
- 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>

- 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>
- 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>
- Kaneda Y, Hart ML, Warner SH, Penttinen JP, Guina M. 2018. Narrow-linewidth operation of folded VECSEL cavity with twist-mode configuration. Paper presented at Advanced Solid State Lasers, ASSL 2018, Boston, United States. <https://doi.org/10.1364/ASSL.2018.ATh2A.7>
- 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>
- Isoaho R, Aho A, Tukiainen A, Aho T, Raappana M, Salminen T, Reuna J, Guina M. 2019. Narrow Bandgap Dilute Nitride Materials for 6-junction Space Solar Cells. In 2019 European Space Power Conference (ESPC). IEEE. <https://doi.org/10.1109/ESPC47532.2019.9049263>
- Blanc W, Vermillac M, Petit L, Lukowiak A, Lu Z, Mady F, Benabdesselam M, Chaussement 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Korpijärvi 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>
- 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>
- Palmolahti L, Ali-Löyhty H, Khan R, Saari J, Tkachenko NV, Valden M. 2020. Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO₂ for Enhanced Solar Water Splitting. *Journal of Physical Chemistry C*. 124(24):13094-13101. <https://doi.org/10.1021/acs.jpcc.0c00798>

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>

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>

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>

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>

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>

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>

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>

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

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>

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>

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>

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

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>

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>

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>

Ghazy A, Safdar M, Lastusaari M, Aho A, Tukiainen A, Savin H, Guina M, Karppinen M. 2020. Luminescent (Er,Ho)₂O₃ thin films by ALD to enhance the performance of silicon solar cells. *Solar Energy Materials and Solar Cells*. 219.
<https://doi.org/10.1016/j.solmat.2020.110787>

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>

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>

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

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>

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

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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 AlGaIn surfaces. *Journal of Physics D: Applied Physics*. 44(3). <https://doi.org/10.1088/0022-3727/44/3/034010>

Linna P, Narra N, Grönman J. 2019. Intelligent data service for farmers. Skala K, Car Z, Pale P, Huljenic D, Janjic M, Korovic M, Struk V, Ribaric S, Grbac TG, Butkovic Z, Cicin-Sain M, Skvorc D, Mauher M, Babic S, Gros S, Vrdoljak B, Tijan E, 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>

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>

Karioja P, Alajoki T, Cherchi M, Ollila J, Harjanne M, Heinilehto N, Suomalainen S, Zia N, Tuorila H, Viheriälä J, Guina M, Buczynski R, Kasztelan 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>

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>

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>

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>

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>

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>

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>

Ojha N, Laihininen 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>

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>

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>

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>

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>

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

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>

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>

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>

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

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

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>

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>

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>

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>

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

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>

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

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>

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>

Hannula M, Ali-Löytty H, Lahtonen K, Saari J, Tukiainen A, Valden M. 2019. Highly efficient charge separation in model Z-scheme TiO₂/TiSi₂/Si photoanode by micropatterned titanium silicide interlayer. *Acta Materialia*. 174:237-245. <https://doi.org/10.1016/j.actamat.2019.05.032>

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

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

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

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>

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>

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>

Leinonen T, Penttinen JP, Korpijärvi 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>

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>

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>

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

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>

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>

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>

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>

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>

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>

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>

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>

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>

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

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

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

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>

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

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

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>

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>

Yadav A, Chichkov NB, Gumenyuk R, Zhrebtsov 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>

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>

Dongho-Nguimdo GM, Igumbor E, Zambou S, Joubert DP. 2019. First principles prediction of the solar cell efficiency of chalcopyrite materials AgMX₂ (M=In, Al; X=S, Se, Te). *Computational Condensed Matter*. 21. <https://doi.org/10.1016/j.cocom.2019.e00391>

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>

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.

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>

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

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>

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>

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

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>

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>

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>

Lorin C, Fleiter J, Salmi T, Schoerling D. 2019. Exploration of Two Layer Nb₃Sn Designs of the Future Circular Collider Main Quadrupoles. *IEEE Transactions on Applied Superconductivity*. 29(5). <https://doi.org/10.1109/TASC.2019.2892814>

Nejadsattari F, Zhang Y, Bouchard F, Larocque H, Sit A, Cohen E, Fickler R, Karimi E. 2019. Experimental realization of wave-packet dynamics in cyclic quantum walks. *Optica*. 6(2):174-180. <https://doi.org/10.1364/OPTICA.6.000174>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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

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>

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>

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>

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

Khorrandel 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>

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>

- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- 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>
- Ojha N, Bogdan M, Galatus R, Petit L. 2020. Effect of heat-treatment on the upconversion of NaYF₄:Yb³⁺, Er³⁺ nanocrystals containing silver phosphate glass. *Journal of Non-Crystalline Solids*. 544. <https://doi.org/10.1016/j.jnoncrysol.2020.120243>
- 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>
- Mehmood A, Chen X, He H, Ukkonen L, Virkki J. 2019. Eco-friendly flexible wireless platforms by 3D printing pen. In *2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings*. IEEE. pp. 2422-2425. (2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings). <https://doi.org/10.1109/PIERS-Fall48861.2019.9021887>
- 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>
- 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>
- 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>
- 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>

- Hallman L, Ryykin BS, Avrutin EA, Aho AT, Viheriälä J, Guina M, Kostamovaara JT. 2019. Double-asymmetric-structure 1.5 μ m high power laser diodes. In Proceedings of the 2019 IEEE High Power Diode Lasers and Systems Conference, HPD 2019 - Co-located with Photonex 2019. IEEE. pp. 19-20. <https://doi.org/10.1109/HPD48113.2019.8938671>
- 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>
- 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>
- 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>
- 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.
- 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>
- 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>
- Giannoulis G, Korpiljärvi 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.
- 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>
- 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, Marinozzi 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>
- 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
- 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>
- 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>
- 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>

Vikholm-Lundin I, Auer S, Hellgren AC. 2011. Detection of 3,4-methylenedioxyamphetamine (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>

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>

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>

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

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>

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>

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>

Saeidi S, Rasekh P, Awan KM, Tügen 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>

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>

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.

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>

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

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

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>

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

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

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).

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>

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>

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>

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>

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>

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>

Aho A, Polojärvi V, Korpijärvi 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>

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

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>

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>

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>

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

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>

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>

Bajas H, Ambrosio G, Anerella M, Bajko M, Bossert R, Caspi S, Chiuchiolo A, Chlachidze G, Dietderich 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>

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>

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>

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>

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>

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>

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>

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.

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)

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>

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>

- Giannoulis G, Korpiljärvi 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>
- 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>
- 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>
- 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.
- Glorieux B, Salminen T, Massera J, Lastusaari 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.jnoncrysol.2017.12.021>
- 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>
- Ukkonen L, Sydänheimo L, Ma S, Björninen T. 2020. Backscattering-based wireless communication and power transfer to small biomedical implants. Gray BL, Becker H, editors. In *Microfluidics, BioMEMS, and Medical Microsystems XVIII*. SPIE. (Progress in Biomedical Optics and Imaging - Proceedings of SPIE). <https://doi.org/10.1117/12.2552183>
- Aho T, Tukiainen A, Elsehrawy F, Ranta S, Raappana M, Aho A, Isoaho R, Cappelluti F, Guina M. 2019. Back Reflector with Diffractive Gratings for Light-Trapping in Thin-Film III-V Solar Cells. In *2019 European Space Power Conference (ESPC)*. IEEE. <https://doi.org/10.1109/ESPC47532.2019.9049262>
- Järvenhaara J, Filanovsky IM, Nevalainen I, Tchamov NT. 2020. A Two-Stage LNA Design for 28GHz Band of 5G on 45nm CMOS. In *2020 IEEE 63rd International Midwest Symposium on Circuits and Systems, MWSCAS 2020 - Proceedings*. IEEE. pp. 957-961. (Midwest Symposium on Circuits and Systems). <https://doi.org/10.1109/MWSCAS48704.2020.9184697>
- 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>
- 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>
- 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>
- 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, Koricic M, Sruc V, Ribaric S, Grbac TG, Butkovic Z, Cicin-Sain M, Skvorc D, Mauher M, Babic S, Gros S, Vrdoljak B, Tijan E, 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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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>

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

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>

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

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>

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>

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

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>

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

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>

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>

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>

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>

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>

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>

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 NRSM 2014. Institute of Electrical and Electronics Engineers Inc. <https://doi.org/10.1109/USNC-URSI-NRSM.2014.6928137>

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>

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>

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>

Salmi T, Tarhasaari T, Izquierdo-Bermudez S. 2020. A Database for Storing Magnet Parameters and Analysis of Quench Test Results in HL-LHC Nb₃Sn Short Model Magnets. *IEEE Transactions on Applied Superconductivity*. 30(4). <https://doi.org/10.1109/TASC.2020.2981304>

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>

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>

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>

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>

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>

Wang Y, Zhao Y, Pan Z, Suomalainen S, Härkönen A, Guina M, Griebner U, Wang L, Loiko P, Mateos X, Chen W, Petrov V. 2020. 73-fs SESAM mode-locked Tm,Ho:CNGG laser at 2061 nm. Clarkson WA, Shori RK, editors. In *Solid State Lasers XXIX: Technology and Devices*. SPIE. (Proceedings of SPIE - The International Society for Optical Engineering). <https://doi.org/10.1117/12.2548180>

Yadav A, Chichkov NB, Gumenyuk R, Zherebtsov 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>

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>

- 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>
- 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>
- Bhalerao SR, Lupo D, Berger PR. 2019. 2-volt Solution-Processed, Indium Oxide (In₂O₃) Thin Film Transistors on flexible Kapton. In 2019 IEEE International Flexible Electronics Technology Conference, IFETC 2019. IEEE. <https://doi.org/10.1109/IFETC46817.2019.9073721>
- 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>
- 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>
- 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 μ m 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>
- Kosunen M, Lemberg J, Martelius M, Roverato E, Nieminen T, Englund M, Stadius K, Anttila L, Pallonen J, Valkama M, Ryyänänen 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>
- 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>
- 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.
- 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>
- 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 (In₂O₃) Channel and Anodized High- κ Al₂O₃ Dielectric. *IEEE Electron Device Letters*. 40(7):1112-1115. <https://doi.org/10.1109/LED.2019.2918492>