

Nonlinear guided waves : Preface. / Assanto, Gaetano; Smyth, Noel F.

In: Journal of Nonlinear Optical Physics and Materials, Vol. 25, No. 4, 1650041, 01.12.2016.

Research output: Contribution to journal › Article › Scientific

0.6V threshold voltage thin film transistors with solution processable indium oxide (In_2O_3) Channel and Anodized High- κ Al_2O_3 Dielectric. / Bhalerao, Sagar R.; Lupo, Donald; Zangiabadi, Amirali; Kymissis, Ioannis; Leppäniemi, Jaakko; Alastalo, Ari; Berger, Paul R.

In: IEEE Electron Device Letters, Vol. 40, No. 7, 01.07.2019, p. 1112-1115.

Research output: Contribution to journal › Article › Scientific › peer-review

10 kA Joints for HTS Roebel Cables. / Murtomaeki, Jaakko Samuel; Kirby, Glyn; van Nugteren, Jeroen; Contat, Pierre Antoine; Fleiter, Jerome; De Frutos, Oscar Sacristan; Pincot, Francois Olivier; DeRijk, Gijs; Rossi, Lucio; Ruuskanen, Janne; Stenvall, Antti; Wolf, Felix.

In: IEEE Transactions on Applied Superconductivity, Vol. 28, No. 3, 2018.

Research output: Contribution to journal › Article › Scientific › peer-review

3-D mechanical modeling of 20 T HTS clover leaf end coils - Good practices and lessons learned. / Murtomäki, Jaakko Samuel; Van Nugteren, Jeroen; Stenvall, Antti; Kirby, Glyn; Rossi, Lucio.

In: IEEE Transactions on Applied Superconductivity, Vol. 29, No. 5, 8642381, 01.08.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

3-D Numerical Modeling of AC Losses in Multifilamentary MgB₂ Wires. / Escamez, Guillaume; Sirois, Frédéric; Lahtinen, Valtteri; Stenvall, Antti; Badel, Arnaud; Tixador, Pascal; Ramdane, Brahim; Meunier, Gérard; Perrin-Bit, Rémy; Bruzek, Christian Éric.

In: IEEE Transactions on Applied Superconductivity, Vol. 26, No. 3, 4701907, 01.04.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

3GPP LTE-assisted Wi-Fi-direct : Trial implementation of live D2D technology. / Pyattaev, Alexander; Hosek, Jiri; Johnsson, Kerstin; Krkos, Radko; Gerasimenko, Mikhail; Masek, Pavel; Ometov, Aleksandr; Andreev, Sergey; Sedy, Jakub; Novotny, Vit; Koucheryavy, Yevgeni.

In: ETRI Journal, Vol. 37, No. 5, 01.10.2015, p. 877-887.

Research output: Contribution to journal › Article › Scientific › peer-review

A 0.5-6MHz Active-RC LPF with Fine Gain Steps Using Binary Interpolated Resistor Banks. / Beck, Sungho; Jeong, Seongheon; Min, Sunki; Hwang, Myung Woon; Kim, Stephen T.; Lim, Kyutae; Tentzeris, Emmanouil M.

In: IEICE TRANSACTIONS ON ELECTRONICS, Vol. E94-C, No. 8, 08.2011, p. 1328-1331.

Research output: Contribution to journal › Article › Scientific › peer-review

Absorption profile and femtosecond intraband relaxation of the intense upper Davydov component in oligothiophenes. / Petelenz, Piotr; Kulig, Waldemar.

In: Physica Status Solidi B: Basic Solid State Physics, Vol. 248, No. 2, 02.2011, p. 412-415.

Research output: Contribution to journal › Article › Scientific › peer-review

Accelerator-quality HTS dipole magnet demonstrator designs for the EuCARD-2 5-T 40-mm clear aperture magnet. /

Kirby, G. A.; 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, J. C.; 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.

In: IEEE Transactions on Applied Superconductivity, Vol. 25, No. 3, 4000805, 01.06.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

Adaptive multiresolution method for MAP reconstruction in electron tomography. / Acar, Erman; Peltonen, Sari; Ruotsalainen, Ulla.

In: Ultramicroscopy, Vol. 170, 01.11.2016, p. 24-34.

Research output: Contribution to journal › Article › Scientific › peer-review

A Database for Storing Magnet Parameters and Analysis of Quench Test Results in HL-LHC Nb₃Sn Short Model Magnets. / Salmi, Tiina; Tarhasaari, Timo; Izquierdo-Bermudez, Susana.

In: IEEE Transactions on Applied Superconductivity, Vol. 30, No. 4, 4703705, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Adsorption and dissociation of molecular oxygen on α -Pu (0 2 0) surface : A density functional study. / Wang, Jianguang; Ray, Asok K.

In: Physica B: Condensed Matter, Vol. 406, No. 17, 01.09.2011, p. 3285-3294.

Research output: Contribution to journal › Article › Scientific › peer-review

A Fast Quench Protection System for High-Temperature Superconducting Magnets. / van Nugteren, Jeroen; Murtomäki, Jaakko; Ruuskanen, Janne; Kirby, Glyn; Hagen, Per; DeRijk, Gijs; Ten Kate, Herman; Bottura, Luca; Rossi, Lucio.

In: IEEE Transactions on Applied Superconductivity, Vol. 29, No. 1, 4700108, 01.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

A Finite Element Simulation Tool for Predicting Hysteresis Losses in Superconductors Using an H-Oriented Formulation with Cohomology Basis Functions. / Lahtinen, Valtteri; Stenvall, Antti; Sirois, Frédéric; Pellikka, Matti.

In: Journal of Superconductivity and Novel Magnetism, Vol. 28, No. 8, 22.04.2015, p. 2345-2354 .

Research output: Contribution to journal › Article › Scientific › peer-review

AlGaAs/AlGaInP VECSELs with Direct Emission at 740-770 nm. / Nechay, Kostiantyn; Kahle, Hermann; Penttinen, Jussi-Pekka; Rajala, Patrik; Tukiainen, Antti; Ranta, Sanna; Guina, Mircea.

In: IEEE Photonics Technology Letters, Vol. 31, No. 15, 01.08.2019, p. 1245-1248.

Research output: Contribution to journal › Article › Scientific › peer-review

Ambient-Pressure XPS Study of a Ni-Fe Electrocatalyst for the Oxygen Evolution Reaction. / Ali-Löyty, Harri; Louie, Mary W.; Singh, Meenesh R.; Li, Lin; Sanchez Casalongue, Hernan G.; Ogasawara, Hirohito; Crumlin, Ethan J.; Liu, Zhi; Bell, Alexis T.; Nilsson, Anders; Friebel, Daniel.

In: Journal of Physical Chemistry C, Vol. 120, No. 4, 04.02.2016, p. 2247-2253.

Research output: Contribution to journal › Article › Scientific › peer-review

An ab initio study of $\text{PuO}_{2\pm 0.25}$, $\text{UO}_{2\pm 0.25}$, and $\text{U}_{0.5}\text{Pu}_{0.5}\text{O}_{2\pm 0.25}$. / Ma, L.; Ray, A. K.

In: European Physical Journal B, Vol. 81, No. 1, 05.2011, p. 103-113.

Research output: Contribution to journal › Article › Scientific › peer-review

Analysis of uncertainties in protection heater delay time measurements and simulations in Nb₃Sn high-field accelerator magnets. / Salmi, Tiina; Chlachidze, Guram; Marchevsky, Maxim; Bajas, Hugo; Felice, Helene; Stenvall, Antti.

In: IEEE Transactions on Applied Superconductivity, Vol. 25, No. 4, 01.08.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

Analytical and Numerical Methods to Estimate the Effective Mechanical Properties of Rutherford Cables. / Zhao, Junjie; Stenvall, Antti; Gao, Yuanwen; Salmi, Tiina.

In: IEEE Transactions on Applied Superconductivity, Vol. 30, No. 5, 8400808, 01.08.2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Analytical computation of the demagnetizing energy of thin-film domain walls. / Skaugen, Audun; Murray, Peyton; Laurson, Lasse.

In: Physical Review B, Vol. 100, No. 9, 094440, 25.09.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

A near-infrared optoelectronic approach to detection of road conditions. / Colace, L.; Santoni, F.; Assanto, G.

In: Optics and Lasers in Engineering, Vol. 51, No. 5, 05.2013, p. 633-636.

Research output: Contribution to journal › Article › Scientific › peer-review

A new power-consumption optimization technique for two-stage operational amplifiers. / Beck, Sungho; Kim, Stephen T.; Lee, Michael; Lim, Kyutae; Laskar, Joy; Tentzeris, Manos M.

In: IEICE TRANSACTIONS ON ELECTRONICS, Vol. E94-C, No. 6, 06.2011, p. 1138-1140.

Research output: Contribution to journal › Article › Scientific › peer-review

An integrated "sense-and-communicate" broad-/narrow-band optically controlled reconfigurable antenna for cognitive radio systems. / Liu, Xiongying; Fan, Yi; Tentzeris, Manos M.

In: Microwave and Optical Technology Letters, Vol. 57, No. 4, 01.04.2015, p. 1016-1023.

Research output: Contribution to journal > Article > Scientific > peer-review

Anisotropic and strain-dependent model of magnetostriction in electrical steel sheets. / Belahcen, Anouar; Singh, Deepak; Rasilo, Paavo; Martin, Florian; Ghalamestani, Setareh Gorji; Vandeveld, Lieven.

In: IEEE Transactions on Magnetics, Vol. 51, No. 3, 2001204, 01.03.2015.

Research output: Contribution to journal > Article > Scientific > peer-review

An Optical Sensor for Volatile Amines Based on an Inkjet-Printed, Hydrogen-Bonded, Cholesteric Liquid Crystalline Film. / Stumpel, Jelle E.; Wouters, Claudia; Herzer, Nicole; Ziegler, Judith; Broer, Dirk J.; Bastiaansen, Cees W M; Schenning, Albertus P H J.

In: Advanced Optical Materials, Vol. 2, No. 5, 2014, p. 459-464.

Research output: Contribution to journal > Article > Scientific > peer-review

A Novel Enhanced-Performance Flexible RFID-Enabled Embroidered Wireless Integrated Module for Sensing Applications. / Hasani, Masoumeh; Vena, Arnaud; Sydänheimo, Lauri; Tentzeris, Manos M.; Ukkonen, Leena.

In: IEEE Transactions on Components, Packaging and Manufacturing Technology, Vol. 5, No. 9, 2015, p. 1244-1252.

Research output: Contribution to journal > Article > Scientific > peer-review

Architectures and codecs for real-time light field streaming. / Kovács, Péter Tamás; Zare, Alireza; Balogh, Tibor; Bregovic, Robert; Gotchev, Atanas.

In: Journal of Imaging Science and Technology, Vol. 61, No. 1, 010403, 01.01.2017.

Research output: Contribution to journal > Article > Scientific > peer-review

Are coarse-grained models apt to detect protein thermal stability? the case of OPEP force field. / Kalimeri, Maria; Derreumaux, Philippe; Sterpone, Fabio.

In: Journal of Non-Crystalline Solids, Vol. 407, 01.01.2015, p. 494-501.

Research output: Contribution to journal > Article > Scientific > peer-review

Aryl end-capped quaterthiophenes applied as anode interfacial layers in inverted organic solar cells. / Heiskanen, J. P.; Manninen, V. M.; Pankov, D.; Omar, W. A. E.; Kastinen, T.; Hukka, T. I.; Lemmetyinen, H. J.; Hormi, O. E. O.

In: Thin Solid Films, Vol. 574, 01.01.2015, p. 196-206.

Research output: Contribution to journal > Article > Scientific > peer-review

A study of electric transport in n- and p-type modulation-doped GaInNAs/GaAs quantum well structures under a high electric field. / Sarcan, F.; Mutlu, S.; Cokduygular, E.; Donmez, O.; Erol, A.; Puustinen, J.; Guina, M.

In: Semiconductor Science and Technology, Vol. 33, No. 6, 064003, 04.05.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Better understanding of the role of SiO₂, P₂O₅ and Al₂O₃ on the spectroscopic properties of Yb³⁺ doped silica sol-gel glasses. / Glorieux, Benoit; Salminen, Turkka; Massera, Jonathan; Lastusaari, Mika; Petit, Laetitia.

In: Journal of Non-Crystalline Solids, Vol. 482, 2018, p. 46-51.

Research output: Contribution to journal > Article > Scientific > peer-review

Block copolymer lithography : Feature size control and extension by an over-etch technique. / Rasappa, Sozaraj; Borah, Dipu; Sentharamaikannan, Ramsankar; Faulkner, Colm C.; Shaw, Matthew T.; Gleeson, Peter; Holmes, Justin D.; Morris, Michael A.

In: Thin Solid Films, Vol. 522, 01.11.2012, p. 318-323.

Research output: Contribution to journal > Article > Scientific > peer-review

Boron delta-doping dependence on Si/SiGe resonant interband tunneling diodes grown by chemical vapor deposition. / Ramesh, Anisha; Growden, Tyler A.; Berger, Paul R.; Loo, Roger; Vandervorst, Wilfried; Douhard, Bastien; Caymax, Matty.

In: IEEE Transactions on Electron Devices, Vol. 59, No. 3, 03.2012, p. 602-609.

Research output: Contribution to journal › Article › Scientific › peer-review

Bringing High-Performance GaInNAsSb/GaAs SOAs to True Data Applications. / Giannoulis, Giannis; Korpijärvi, Ville-Markus; Iliadis, Nikos; Mäkelä, Jaakko; Viheriälä, Jukka; Apostolopoulos, Dimitrios; Guina, Mircea; Avramopoulos, Hercules.

In: IEEE Photonics Technology Letters, Vol. 27, No. 16, 7113825, 15.08.2015, p. 1691-1694.

Research output: Contribution to journal › Article › Scientific › peer-review

Broadband finite-Difference Time-Domain modeling of plasmonic organic photovoltaics. / Jung, Kyung Young; Yoon, Woo Jun; Park, Yong Bae; Berger, Paul R.; Teixeira, Fernando L.

In: ETRI Journal, Vol. 36, No. 4, 2014, p. 654-661.

Research output: Contribution to journal › Article › Scientific › peer-review

Bursty magnetic friction between polycrystalline thin films with domain walls. / Rissanen, Ilari; Laurson, Lasse.

In: Physical Review B, Vol. 100, No. 14, 144408, 04.10.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Calculated electronic density of states and structural properties of tetrahedral amorphous carbon. / Koivusaari, K. Jarmo; Rantala, Tapio T.; Leppävuori, Seppo.

In: Diamond and Related Materials, Vol. 9, No. 3, 04.2000, p. 736-740.

Research output: Contribution to journal › Article › Scientific › peer-review

Calculation of the scalar diffraction field from curved surfaces by decomposing the three-dimensional field into a sum of Gaussian beams. / Şahin, Erdem; Onural, Levent.

In: Journal of the Optical Society of America A: Optics Image Science and Vision, Vol. 30, No. 3, 2013, p. 527-536.

Research output: Contribution to journal › Article › Scientific › peer-review

Capability assessment of inkjet printing for reliable RFID applications. / Putaala, Jussi; Niittynen, Juha; Hannu, Jari; Myllymäki, Sami; Kunnari, Esa; Mäntysalo, Matti; Hagberg, Juha; Jantunen, Heli.

In: IEEE Transactions on Device and Materials Reliability, Vol. 17, No. 2, 01.06.2017, p. 281-290.

Research output: Contribution to journal › Article › Scientific › peer-review

Cascaded crystalline raman lasers for extended wavelength coverage : Continuous-wave, third-stokes operation. / Casula, Riccardo; Penttinen, Jussi-Pekka; Guina, Mircea; Kemp, Alan J.; Hastie, Jennifer E.

In: Optica, Vol. 5, No. 11, 20.11.2018, p. 1406-1413.

Research output: Contribution to journal › Article › Scientific › peer-review

Catalytic Activity of AuCu Clusters on MgO(100) : Effect of Alloy Composition for CO Oxidation. / Ma, Li; Laasonen, Kari; Akola, Jaakko.

In: Journal of Physical Chemistry C, Vol. 121, No. 20, 25.05.2017, p. 10876-10886.

Research output: Contribution to journal › Article › Scientific › peer-review

Cavity formation in split ring resonators. / Caglayan, Humeyra; Bulu, Irfan; Loncar, Marko; Ozbay, Ekmel.

In: Photonics and Nanostructures - Fundamentals and Applications, Vol. 6, No. 3-4, 12.2008, p. 200-204.

Research output: Contribution to journal › Article › Scientific › peer-review

Chip-by-chip configurable interconnection using digital printing techniques. / Mashayekhi, Mohammad; Winchester, Lee; Laurila, Mika-Matti; Mäntysalo, Matti; Ogier, Simon; Terés, Lluís; Carrabina, Jordi.

In: Journal of Micromechanics and Microengineering, Vol. 27, No. 4, 045009, 06.03.2017.

Research output: Contribution to journal › Article › Scientific › peer-review

Cold test results of the LARP HQ Nb₃Sn quadrupole magnet at 1.9 K. / 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, A. R.; Marchevsky, M.; Russenschuck, S.; Sabbi, G. L.; Salmi, T.; Schmalzle, J.; Todesco, E.; Wanderer, P.; Wang, X.; Yu, M.

In: IEEE Transactions on Applied Superconductivity, Vol. 23, No. 3, 4002606, 2013.

Research output: Contribution to journal › Article › Scientific › peer-review

Combination of E-jet and inkjet printing for additive fabrication of multilayer high-density RDL of silicon interposer. /

Laurila, Mika-Matti; Khorramdel, Behnam; Mäntysalo, Matti.

In: IEEE Transactions on Electron Devices, Vol. 64, No. 3, 01.03.2017, p. 1217-1224.

Research output: Contribution to journal › Article › Scientific › peer-review

Comparative Analysis of Injection Microdisk Lasers Based on InGaAsN Quantum Wells and InAs/InGaAs Quantum Dots. /

Moiseev, E. I.; Maximov, M. V.; Kryzhanovskaya, N. V.; Simchuk, O. I.; Kulagina, M. M.; Kadinskaya, S. A.; Guina, M.; Zhukov, A. E.

In: Semiconductors, Vol. 54, No. 2, 01.02.2020, p. 263-267.

Research output: Contribution to journal › Article › Scientific › peer-review

Comparison of the optical, thermal and structural properties of Ge-Sb-S thin films deposited using thermal evaporation and pulsed laser deposition techniques. /

Musgraves, J. D.; Carlie, N.; Hu, J.; Petit, L.; Agarwal, A.; Kimerling, L. C.;

Richardson, K. A.

In: Acta Materialia, Vol. 59, No. 12, 07.2011, p. 5032-5039.

Research output: Contribution to journal › Article › Scientific › peer-review

Comparison of three light doses in the photodynamic treatment of actinic keratosis using mathematical modeling. /

Vignon-Dewalle, Anne Sophie; Betrouni, Nacim; Tylcz, Jean Baptiste; Vermandel, Maximilien; Mortier, Laurent; Mordon, Serge.

In: JOURNAL OF BIOMEDICAL OPTICS, Vol. 20, No. 5, 058001, 01.05.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

Compatibilization of natural rubber/nitrile rubber blends by sol-gel nano-silica generated by in situ method. /

Bansod, Naresh D.; Kapgate, Bharat P.; Das, Chayan; Das, Amit; Basu, Debdipta; Debnath, Subhas Chandra.

In: JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, Vol. 80, No. 2, 2016, p. 548-559.

Research output: Contribution to journal › Article › Scientific › peer-review

Composition dependent growth dynamics in molecular beam epitaxy of GaInNAs solar cells. /

Aho, Arto; Polojärvi, Ville; Korpijärvi, Ville Markus; Salmi, Joel; Tukiainen, Antti; Laukkanen, Pekka; Guina, Mircea.

In: Solar Energy Materials and Solar Cells, Vol. 124, 05.2014, p. 150-158.

Research output: Contribution to journal › Article › Scientific › peer-review

Computational super-resolution phase retrieval from multiple phase-coded diffraction patterns : Simulation study and experiments. /

Katkovnik, Vladimir; Shevkunov, Igor; Petrov, Nikolay V.; Egiazarian, Karen.

In: Optica, Vol. 4, No. 7, 20.07.2017, p. 786-794.

Research output: Contribution to journal › Article › Scientific › peer-review

Computation of torque of an electrical machine with different types of finite element mesh in the air gap. /

Silwal, Bishal; Rasilo, Paavo; Perkkio, Lauri; Oksman, Miika; Hannukainen, Antti; Eirola, Timo; Arkkio, Antero.

In: IEEE Transactions on Magnetics, Vol. 50, No. 12, 8105909, 01.12.2014.

Research output: Contribution to journal › Article › Scientific › peer-review

Considerations on a Cost Model for High-Field Dipole Arc Magnets for FCC. /

Schoerling, Daniel; Durante, Maria; Lorin, Clement; Martinez, Teresa; Ruuskanen, Janne; Salmi, Tiina; Sorbi, Massimo; Tommasini, Davide; Toral, Fernando.

In: IEEE Transactions on Applied Superconductivity, Vol. 27, No. 4, 4003105, 01.06.2017.

Research output: Contribution to journal › Article › Scientific › peer-review

Construction of an Interconnected Nanostructured Carbon Black Network : Development of Highly Stretchable and Robust Elastomeric Conductors. /

Bhagavatheswaran, Eshwaran Subramani; Parsekar, Meenali; Das, Amit; Le, Hai Hong;

Wiessner, Sven; Stöckelhuber, Klaus Werner; Schmaucks, Gerd; Heinrich, Gert.

In: Journal of Physical Chemistry C, Vol. 119, No. 37, 17.09.2015, p. 21723-21731.

Research output: Contribution to journal › Article › Scientific › peer-review

Controlling the plasmon resonance via epsilon-near-zero multilayer metamaterials. / Habib, Mohsin; Briukhanova, Daria; Das, Nekhel; Yildiz, Bilge Can; Caglayan, Humeyra.
In: Nanophotonics, Vol. 9, No. 11, 20200245, 2020.
Research output: Contribution to journal > Article > Scientific > peer-review

Crystallization of supercooled liquid antimony : A density functional study. / Ropo, M.; Akola, J.; Jones, R. O.
In: Physical Review B, Vol. 96, No. 18, 184102, 03.11.2017.
Research output: Contribution to journal > Article > Scientific > peer-review

Crystallization processes in the phase change material Ge₂ Sb₂ Te₅ : Unbiased density functional/molecular dynamics simulations. / Kalikka, J.; Akola, J.; Jones, R. O.
In: Physical Review B, Vol. 94, No. 13, 134105, 17.10.2016.
Research output: Contribution to journal > Article > Scientific > peer-review

Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold. / Vikholm-Lundin, Inger; Auer, Sanna; Paakkunainen, Maija; Määttä, Juha A E; Munter, Tony; Leppiniemi, Jenni; Hytönen, Vesa P.; Tappura, Kirsi.
In: Sensors and Actuators B: Chemical, Vol. 171-172, 08.2012, p. 440-448.
Research output: Contribution to journal > Article > Scientific > peer-review

Decreasing the extremely low-frequency electric field exposure with a Faraday cage during work tasks from a man hoist at a 400 kV substation. / Pirkkalainen, Herkko; Elovaara, Jarmo; Korpinen, Leena.
In: Progress In Electromagnetics Research M, Vol. 48, 2016, p. 55-66.
Research output: Contribution to journal > Article > Scientific > peer-review

Deformation of lamellar γ -TiAl below the general yield stress. / Edwards, Thomas Edward James; Di Gioacchino, Fabio; Goodfellow, Amy Jane; Mohanty, Gaurav; Wehrs, Juri; Michler, Johann; Clegg, William John.
In: Acta Materialia, Vol. 163, 15.01.2019, p. 122-139.
Research output: Contribution to journal > Article > Scientific > peer-review

Demonstration of optical nonlinearity in InGaAsP/InP passive waveguides. / Saeidi, Shayan; Rasekh, Payman; Awan, Kashif M.; Tüngen, Alperen; Huttunen, Mikko J.; Dolgaleva, Ksenia.
In: Optical Materials, Vol. 84, 01.10.2018, p. 524-530.
Research output: Contribution to journal > Article > Scientific > peer-review

Design, fabrication, and testing of a low AC-loss conduction-cooled cryostat for magnetization loss measurement apparatus. / Järvelä, Joonas; Lyly, M.; Stenvall, Antti; Juntunen, Raimo; Souc, J.; Mikkonen, Risto.
In: IEEE Transactions on Applied Superconductivity, Vol. 25, No. 1, 01.02.2015.
Research output: Contribution to journal > Article > Scientific > peer-review

Designing materials with desired electromagnetic properties. / Bulu, Irfan; Caglayan, Humeyra; Ozbay, Ekmel.
In: Microwave and Optical Technology Letters, Vol. 48, No. 12, 12.2006, p. 2611-2615.
Research output: Contribution to journal > Article > Scientific > peer-review

Design of a Nb₃Sn 400 T/m quadrupole for the Future Circular Collider. / Lorin, Clement; Simon, Damien; Felice, Helene; Rifflet, Jean Michel; Salmi, Tiina; Schoerling, Daniel.
In: IEEE Transactions on Applied Superconductivity, Vol. 28, No. 3, 4004905, 2018.
Research output: Contribution to journal > Article > Scientific > peer-review

Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies. / Vikholm-Lundin, Inger; Auer, Sanna; Hellgren, Ann Charlotte.
In: Sensors and Actuators B: Chemical, Vol. 156, No. 1, 10.08.2011, p. 28-34.
Research output: Contribution to journal > Article > Scientific > peer-review

Determination of beam incidence conditions based on the analysis of laser interference patterns. / Wang, Dapeng; Wang, Zuobin; Yue, Yong; Yu, Juncai; Tan, Chunlei; Li, Dayou; Qiu, Renxi; Maple, Carsten.

In: *Optik*, Vol. 126, No. 21, 01.11.2015, p. 2902-2907.

Research output: Contribution to journal › Article › Scientific › peer-review

Development of a new illumination procedure for photodynamic therapy of the abdominal cavity. / Cuyon, Laurie; Lesage, Jean Claude; Betrouni, Nacim; Mordon, Serge.

In: *JOURNAL OF BIOMEDICAL OPTICS*, Vol. 17, No. 3, 038001, 03.2012.

Research output: Contribution to journal › Article › Scientific › peer-review

Development of MQXF : The Nb₃Sn Low-β Quadrupole for the HiLumi LHC. / Ferracin, P.; Ambrosio, G.; Anerella, M.; Ballarino, A.; Bajas, H.; Bajko, M.; Bordini, B.; Bossert, R.; Cheng, D. W.; Dietderich, D. R.; Chlachidze, G.; Cooley, L.; Felice, H.; Ghosh, A.; Hafalia, R.; Holik, E.; Izquierdo Bermudez, S.; Fessia, P.; Grosclaude, P.; Guinchard, M.; Juchno, M.; Krave, S.; Lackner, F.; Marchevsky, M.; Marinozzi, V.; Nobrega, F.; Oberli, L.; Pan, H.; Perez, J. C.; 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.

In: *IEEE Transactions on Applied Superconductivity*, Vol. 26, No. 4, 4000207, 01.06.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Diffusion on aluminum-cluster surfaces and the cluster growth. / Valkealahti, S.; Manninen, M.

In: *Physical Review B - Condensed Matter and Materials Physics*, Vol. 57, No. 24, 01.01.1998, p. 15533-15540.

Research output: Contribution to journal › Article › Scientific › peer-review

Dilute nitride triple junction solar cells for space applications : Progress towards highest AM0 efficiency. / Aho, Arto;

Isoaho, Riku; Tukiainen, Antti; Gori, Gabriele; Campesato, Roberta; Guina, Mircea.

In: *Progress in Photovoltaics: Research and Applications*, Vol. 26, No. 19, 09.2018, p. 740-744.

Research output: Contribution to journal › Article › Scientific › peer-review

Direct measurement of vapour-metal shifts in photo- and Auger electron spectra of Zn and Cd. / Kumpula, R.; Vayrynen, J.; Rantala, T.; Aksela, S.

In: *Journal of physics c-Solid state physics*, Vol. 12, No. 21, 001, 1979.

Research output: Contribution to journal › Article › Scientific › peer-review

Dissolution behavior of the bioactive glass S53P4 when sodium is replaced by potassium, and calcium with magnesium or strontium. / Hupa, Leena; Fagerlund, Susanne; Massera, Jonathan; Björkvik, Leena.

In: *Journal of Non-Crystalline Solids*, 2016, p. 41-46.

Research output: Contribution to journal › Article › Scientific › peer-review

Dynamics of photovoltaic-generator-interfacing voltage-controlled buck power stage. / Sitbon, M.; Leppäaho, J.; Suntio, T.; Kuperman, A.

In: *IEEE Journal of Photovoltaics*, Vol. 5, No. 2, 01.03.2015, p. 633-640.

Research output: Contribution to journal › Article › Scientific › peer-review

Dynamic speckle analysis with smoothed intensity-based activity maps. / Stoykova, Elena; Berberova, Natalia; Kim, Youngmin; Nazarova, Dimana; Ivanov, Branimir; Gotchev, Atanas; Hong, Jisoo; Kang, Hoonjong.

In: *Optics and Lasers in Engineering*, Vol. 93, 01.06.2017, p. 55-65.

Research output: Contribution to journal › Article › Scientific › peer-review

Effect of heat-treatment on the upconversion of NaYF₄:Yb³⁺, Er³⁺ nanocrystals containing silver phosphate glass. / Ojha, N.; Bogdan, M.; Galatus, R.; Petit, L.

In: *Journal of Non-Crystalline Solids*, Vol. 544, 120243, 15.09.2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Effect of Hole Transporting Material on Charge Transfer Processes in Zinc Phthalocyanine Sensitized ZnO Nanorods. / Hakola, Hanna; Sariola-Leikas, Essi; Efimov, Alexander; Tkachenko, Nikolai V.

In: *Journal of Physical Chemistry C*, Vol. 120, No. 13, 21.04.2016, p. 7044-7051.

Research output: Contribution to journal › Article › Scientific › peer-review

Effect of incorporation of CdS NPs on performance of PTB7 : PCBM organic solar cells. / Sharma, Ramakant; Bhalerao, Sagar; Gupta, Dipti.

In: Organic Electronics: physics, materials, applications, Vol. 33, 01.06.2016, p. 274-280.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of sol-gel derived in situ silica on the morphology and mechanical behavior of natural rubber and acrylonitrile butadiene rubber blends. / Kavgate, Bharat P.; Das, Chayan; Das, Amit; Basu, Debdipta; Reuter, Uta; Heinrich, Gert.

In: JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, Vol. 63, No. 3, 09.2012, p. 501-509.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of the addition of Al₂O₃, TiO₂ and ZnO on the thermal, structural and luminescence properties of Er³⁺-doped phosphate glasses. / López-Iscoa, Pablo; Petit, Laetitia; Massera, Jonathan; Janner, Davide; Boetti, Nadia G.; Pugliese, Diego; Fiorilli, Sonia; Novara, Chiara; Giorgis, Fabrizio; Milanese, Daniel.

In: Journal of Non-Crystalline Solids, Vol. 460, 15.03.2017, p. 161-168.

Research output: Contribution to journal > Article > Scientific > peer-review

Effect of the glass melting condition on the processing of phosphate-based glass-ceramics with persistent luminescence properties. / Massera, J.; Gaussiran, M.; Głuchowski, P.; Lastusaari, M.; Petit, L.; Hölsä, J.; Hupa, L.

In: Optical Materials, Vol. 52, 01.02.2016, p. 56-61.

Research output: Contribution to journal > Article > Scientific > peer-review

Effects of insertion of strain-engineering Ga(In)NAs layers on optical properties of InAs/GaAs quantum dots for high-efficiency solar cells. / Pavelescu, Emil-Mihai; Polojärvi, Ville; Schramm, Andreas; Tukiainen, Antti; Aho, Arto; Zhang, Wenxin; Puustinen, Janne; Salmi, Joel; Guina, Mircea.

In: Optical Materials, Vol. 52, 01.02.2016, p. 177-180.

Research output: Contribution to journal > Article > Scientific > peer-review

Effects of thinning and heating for TiO₂/AlInP junctions. / Mäkelä, J.; Tuominen, M.; Yasir, M.; Polojärvi, V.; Aho, A.; Tukiainen, A.; Kuzmin, M.; Punkkinen, M. P. J.; Laukkanen, P.; Kokko, K.; Guina, M.

In: Journal of Electron Spectroscopy and Related Phenomena, Vol. 205, 24.08.2015, p. 6-9.

Research output: Contribution to journal > Article > Scientific > peer-review

Efficient photon upconversion at remarkably low annihilator concentrations in a liquid polymer matrix: when less is more. / Durandin, Nikita A.; Isokuortti, Jussi; Efimov, Alexander; Vuorimaa-Laukkanen, Elina; Tkachenko, Nikolai V.; Laaksonen, Timo.

In: Chemical Communications, Vol. 54, No. 99, 2018, p. 14029-14032.

Research output: Contribution to journal > Article > Scientific > peer-review

Electrical Contacts in SOI MEMS Using Aerosol Jet Printing. / Khorramdel, Behnam; Torkkeli, Altti; Mäntysalo, Matti.

In: IEEE Journal of the Electron Devices Society, Vol. 6, 2017, p. 34-40.

Research output: Contribution to journal > Article > Scientific > peer-review

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. / Donmez, O.; Aydin, M.; Ardali; Yildirim, S.; Tiraş, E.; Nutku, F.; Cetinkaya, C.; okduygulular, E.; Puustinen, J.; Hilska, J.; Guina, M.; Erol, A.

In: Semiconductor Science and Technology, Vol. 35, No. 2, 025009, 2020.

Research output: Contribution to journal > Article > Scientific > peer-review

Electro-optic steering of nematicons. / Assanto, Gaetano; Piccardi, Armando; Barboza, Raouf; Alberucci, Alessandro.

In: Photonics Letters of Poland, Vol. 4, No. 1, 2012, p. 2-4.

Research output: Contribution to journal > Article > Scientific > peer-review

Electro-optic steering of random laser emission in liquid crystals. / Assanto, Gaetano; Perumbilavil, Sreekanth; Piccardi, Armando; Kauranen, Martti.

In: Photonics Letters of Poland, Vol. 10, No. 4, 2018, p. 103-105.

Research output: Contribution to journal › Article › Scientific › peer-review

Electrospun Black Titania Nanofibers : Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance. / Lepcha, A.; Maccato, C.; Mettenböcker, A.; Andreu, T.; Mayrhofer, L.; Walter, M.; Olthof, S.; Ruoko, T. P.; Klein, A.; Moseler, M.; Meerholz, K.; Morante, J. R.; Barreca, D.; Mathur, S.
In: Journal of Physical Chemistry C, Vol. 119, No. 33, 20.08.2015, p. 18835-18842.

Research output: Contribution to journal › Article › Scientific › peer-review

Energy density-method : An approach for a quick estimation of quench temperatures in high-field accelerator magnets. / Salmi, Tiina; Schoerling, Daniel.

In: IEEE Transactions on Applied Superconductivity, Vol. 29, No. 4, 06.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Engineering of Chern insulators and circuits of topological edge states. / Minarelli, Emma L.; Pöyhönen, Kim; Van Dalum, Gerwin A.R.; Ojanen, Teemu; Fritz, Lars.

In: Physical Review B, Vol. 99, No. 16, 165413, 10.04.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

ESD qualification data used as the basis for building electrostatic discharge protected areas. / Tamminen, Pasi; Viheriäköske, Toni; Sydänheimo, Lauri; Ukkonen, Leena.

In: Journal of Electrostatics, Vol. 77, 3024, 01.10.2015, p. 174-181.

Research output: Contribution to journal › Article › Scientific › peer-review

Essential Measurements for Finite Element Simulations of Magnetostrictive Materials. / Poutala, Arto; Kovanen, Tuomas; Kettunen, Lauri.

In: IEEE Transactions on Magnetics, Vol. 54, No. 1, 7200107, 2018.

Research output: Contribution to journal › Article › Scientific › peer-review

Evaluation of Aerosol, Superfine Inkjet, and Photolithography Printing Techniques for Metallization of Application Specific Printed Electronic Circuits. / Mashayekhi, Mohammad; Winchester, Lee; Evans, Louise; Pease, Tim; Laurila, Mika-Matti; Mäntysalo, Matti; Ogier, Simon; Teres, Lluís; Carrabina, Jordi.

In: IEEE Transactions on Electron Devices, Vol. 63, No. 3, 01.03.2016, p. 1246-1253.

Research output: Contribution to journal › Article › Scientific › peer-review

Evaluation of crushing strength of spray-dried MgAl₂O₄ granule beds. / Kanerva, Ulla; Suhonen, Tomi; Lagerbom, Juha; Levänen, Erkki.

In: Ceramics International, Vol. 41, No. 7, 01.08.2015, p. 8494-8500.

Research output: Contribution to journal › Article › Scientific › peer-review

Evaluation of screen printed silver trace performance and long-term reliability against environmental stress on a low surface energy substrate. / Mikkonen, Riikka; Mäntysalo, Matti.

In: Microelectronics Reliability, Vol. 86, 01.07.2018, p. 54-65.

Research output: Contribution to journal › Article › Scientific › peer-review

Exciton localization and structural disorder of GaAs_{1-x}Bi_x/GaAs quantum wells grown by molecular beam epitaxy on (311)B GaAs substrates. / Prando, G. A.; Orsi Gordo, V.; Puustinen, J.; Hilska, J.; Alghamdi, H. M.; Som, G.; Gunes, M.; Akyol, M.; Souto, S.; Rodrigues, A. D.; Galetti, H. V.A.; Henini, M.; Gobato, Y. Galvão; Guina, M.

In: Semiconductor Science and Technology, Vol. 33, No. 8, 084002, 17.07.2018.

Research output: Contribution to journal › Article › Scientific › peer-review

Experimental realization of wave-packet dynamics in cyclic quantum walks. / Nejdattari, Farshad; Zhang, Yingwen; Bouchard, Frédéric; Larocque, Hugo; Sit, Alicia; Cohen, Eliahu; Fickler, Robert; Karimi, Ebrahim.

In: Optica, Vol. 6, No. 2, 20.02.2019, p. 174-180.

Research output: Contribution to journal › Article › Scientific › peer-review

Exploration of Two Layer Nb₃Sn Designs of the Future Circular Collider Main Quadrupoles. / Lorin, Clement; Fleiter, Jerome; Salmi, Tiina; Schoerling, Daniel.

In: IEEE Transactions on Applied Superconductivity, Vol. 29, No. 5, 4001005, 01.08.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Fabrication of ssDNA/Oligo(ethylene glycol) monolayers and patterns by exchange reaction promoted by ultraviolet light irradiation. / Khan, M. Nuruzzaman; Zharnikov, Michael.

In: Journal of Physical Chemistry C, Vol. 117, No. 47, 27.11.2013, p. 24883-24893.

Research output: Contribution to journal › Article › Scientific › peer-review

Fabrication of ssDNA/oligo(ethylene glycol) monolayers by promoted exchange reaction with thiol and disulfide substituents. / Khan, M. Nuruzzaman; Zharnikov, Michael.

In: Journal of Physical Chemistry C, Vol. 118, No. 6, 13.02.2014, p. 3093-3101.

Research output: Contribution to journal › Article › Scientific › peer-review

Features of correlation measurements of the parameters of pulsed hyperspectral optical fields using an asymmetric interferometer. / Kulya, M. S.; Katkovnik, V. Ya; Egiazarian, K.; Petrov, N. V.

In: Quantum Electronics, Vol. 50, No. 7, 2020, p. 679-682.

Research output: Contribution to journal › Article › Scientific › peer-review

FEM for directly coupled magneto-mechanical phenomena in electrical machines. / Fonteyn, Katarzyna; Belahcen, Anouar; Kouhia, Reijo; Rasilo, Paavo; Arkkio, Antero.

In: IEEE Transactions on Magnetics, Vol. 46, No. 8, 08.2010, p. 2923-2926.

Research output: Contribution to journal › Article › Scientific › peer-review

First Cold Powering Test of REBCO Roebel Wound Coil for the EuCARD2 Future Magnet Development Project. / Kirby,

Glyn A.; Van Nugteren, Jeroen; Bajas, H.; Benda, V.; Ballarino, A.; Bajko, M.; Bottura, Luca; Broekens, K.; Canale, M.; Chiuchiolo, A.; Gentini, L.; Peray, N.; Perez, Juan Carlos; De Rijk, Gijs; Rijllart, Adriaan; Rossi, Lucio; Murtomaeki, J.; Mazet, Jacky; Pincot, Francois Olivier; Volpini, Giovanni; Durante, Maria; Fazilleau, P.; Lorin, Clement; Stenvall, A.; Goldacker, Wilfried; Kario, Anna; Usoskin, Alexander.

In: IEEE Transactions on Applied Superconductivity, Vol. 27, No. 4, 4003307, 01.06.2017.

Research output: Contribution to journal › Article › Scientific › peer-review

First principles prediction of the solar cell efficiency of chalcopyrite materials AgMX₂(M=In, Al; X=S, Se, Te). / Dongho-Nguimdo, G. M.; Igumbor, Emmanuel; Zambou, Serges; Joubert, Daniel P.

In: Computational Condensed Matter, Vol. 21, e00391, 01.12.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Fluid flow simulations meet high-speed video : Computer vision comparison of droplet dynamics. / Kulju, S.; Riegger, L.; Koltay, P.; Mattila, K.; Hyväluoma, J.

In: Journal of Colloid and Interface Science, Vol. 522, 15.07.2018, p. 48-56.

Research output: Contribution to journal › Article › Scientific › peer-review

Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models. / Välimäki, Hannu; Verho, Jarmo; Kreutzer, Joose; Kattippambal Rajan, Dhanesh; Ryyänen, Tomi; Pekkanen-Mattila, Mari; Ahola, Antti; Tappura, Kirsi; Kallio, Pasi; Lekkala, Jukka.

In: Sensors and Actuators B: Chemical, Vol. 249, 01.10.2017, p. 738-746.

Research output: Contribution to journal › Article › Scientific › peer-review

Frequency modulation of semiconductor disk laser pulses. / Zolotovskii, I. O.; Korobko, D. A.; Okhotnikov, O. G.

In: Quantum Electronics, Vol. 45, No. 7, 2015, p. 628-634.

Research output: Contribution to journal › Article › Scientific › peer-review

Full-field mode sorter using two optimized phase transformations for high-dimensional quantum cryptography. / Fickler, Robert; Bouchard, Frédéric; Giese, Enno; Grillo, Vincenzo; Leuchs, Gerd; Karimi, Ebrahim.

In: Journal of Optics (United Kingdom), Vol. 22, No. 2, 024001, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Fundamental gaps of quantum dots on the cheap. / Guandalini, Alberto; Rozzi, Carlo A.; Räsänen, Esa; Pittalis, Stefano.
In: Physical Review B, Vol. 99, No. 12, 125140, 25.03.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

GaInAsSb/AlGa(In)AsSb type I quantum wells emitting in 3 μ m range for application in superluminescent diodes. / Kurka, M.; Dyksik, M.; Suomalainen, S.; Koivusalo, E.; Guina, M.; Motyka, M.

In: Optical Materials, Vol. 91, 01.05.2019, p. 274-278.

Research output: Contribution to journal › Article › Scientific › peer-review

Generalized slip transformations and air-gap harmonics in field models of electrical machines. / Räsänen, Ville; Suuriniemi, Saku; Kettunen, Lauri.

In: IEEE Transactions on Magnetics, Vol. 52, No. 9, 8107708, 01.09.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Generation of a broad IR spectrum and N-soliton compression in a longitudinally inhomogeneous dispersion-shifted fibre. / Zolotovskii, I. O.; Korobko, D. A.; Okhotnikov, O. G.; Stolyarov, D. A.; Sysolyatin, A. A.

In: Quantum Electronics, Vol. 45, No. 9, 2015, p. 844-852.

Research output: Contribution to journal › Article › Scientific › peer-review

Generation of bound states of pulses in a soliton laser with complex relaxation of a saturable absorber. / Zolotovskii, I. O.; Korobko, D. A.; Gumenyuk, R. V.; Okhotnikov, O. G.

In: Quantum Electronics, Vol. 45, No. 1, 2015, p. 26-34.

Research output: Contribution to journal › Article › Scientific › peer-review

Generation of Sub-100 ps Pulses at 532, 355, and 266 nm Using a SESAM Q-Switched Microchip Laser. / Nikkinen, Jari; Härkönen, Antti; Leino, Iiro; Guina, Mircea.

In: IEEE Photonics Technology Letters, Vol. 29, No. 21, 01.11.2017, p. 1816-1819.

Research output: Contribution to journal › Article › Scientific › peer-review

Geometric Structure and Chemical Ordering of Large AuCu Clusters : A Computational Study. / Goh, Jing-Qiang; Akola, Jaakko; Ferrando, Riccardo.

In: Journal of Physical Chemistry C, Vol. 121, No. 20, 25.05.2017, p. 10809-10816.

Research output: Contribution to journal › Article › Scientific › peer-review

Geometry Analysis in Screen-Printed Stretchable Interconnects. / Mosallaei, Mahmoud; Jokinen, Jarno; Honkanen, Mari; Iso-Ketola, Pekka; Vippola, Minnamari; Vanhala, Jukka; Kanerva, Mikko; Mantysalo, Matti.

In: IEEE Transactions on Components, Packaging and Manufacturing Technology, Vol. 8, No. 8, 08.2018, p. 1344-1352.

Research output: Contribution to journal › Article › Scientific › peer-review

Germanium-on-glass solar cells : Fabrication and characterization. / Sorianello, Vito; Colace, Lorenzo; Maragliano, Carlo; Fulgoni, Dominic; Nash, Lee; Assanto, Gaetano.

In: Optical Materials Express, Vol. 3, No. 2, 2013, p. 216-228.

Research output: Contribution to journal › Article › Scientific › peer-review

Ghost imaging in the time domain. / Ryczkowski, Piotr; Barbier, Margaux; Friberg, Ari T.; Dudley, John M.; Genty, Goëry.

In: Nature Photonics, No. 10, 01.02.2016, p. 167-170.

Research output: Contribution to journal › Article › Scientific › peer-review

Goos-Hänchen and Imbert-Fedorov shifts for epsilon-near-zero materials. / Nieminen, Arttu; Marini, Andrea; Ornigotti, Marco.

In: Journal of Optics, Vol. 22, No. 3, 035601, 28.01.2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Graphene-based tunable plasmon induced transparency in gold strips. / Habib, Mohsin; Rashed, Alireza Rahimi; Ozbay, Ekmel; Caglayan, Humeyra.

In: *Optical Materials Express*, Vol. 8, No. 4, 01.04.2018, p. 1069-1074.

Research output: Contribution to journal › Article › Scientific › peer-review

Hafnium oxide thin films as a barrier against copper diffusion in solar absorbers. / Kotilainen, Minna; Krumpolec, Richard; Franta, Daniel; Souček, Pavel; Homola, Tomáš; Cameron, David C.; Vuoristo, Petri.

In: *Solar Energy Materials and Solar Cells*, Vol. 166, 01.07.2017, p. 140-146.

Research output: Contribution to journal › Article › Scientific › peer-review

Halogen bonding stabilizes a cis-azobenzene derivative in the solid state : A crystallographic study. / Saccone, Marco; Siiskonen, Antti; Fernandez-Palacio, Francisco; Priimägi, Arri; Terraneo, Giancarlo; Resnati, Giuseppe; Metrangolo, Pierangelo.

In: *ACTA CRYSTALLOGRAPHICA SECTION B : STRUCTURAL SCIENCE, CRYSTAL ENGINEERING AND MATERIALS*, Vol. 73, No. 2, 01.04.2017, p. 227-233.

Research output: Contribution to journal › Article › Scientific › peer-review

Halogen bonding versus hydrogen bonding in driving self-assembly and performance of light-responsive supramolecular polymers. / Priimägi, Arri; Cavallo, Gabriella; Forni, Alessandra; Gorynsztein-Leben, Mikael; Kaivola, Matti; Metrangolo, Pierangelo; Milani, Roberto; Shishido, Atsushi; Pilati, Tullio; Resnati, Giuseppe; Terraneo, Giancarlo.

In: *Advanced Functional Materials*, Vol. 22, No. 12, 20.06.2012, p. 2572-2579.

Research output: Contribution to journal › Article › Scientific › peer-review

Harmonic mode-locking fiber ring laser with a pulse repetition rate up to 12 GHz. / Korobko, D. A.; Stoliarov, D. A.; Itrin, P. A.; Odnoblyudov, M. A.; Petrov, A. B.; Gumenyuk, R. V.

In: *Optics and laser technology*, Vol. 133, 106526, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Hematite Surface Modification toward Efficient Sunlight-Driven Water Splitting Activity : The Role of Gold Nanoparticle Addition. / Tofanello, Aryane; Freitas, Andre L.M.; Carvalho, Waldemir M.; Salminen, Turkka; Niemi, Tapio; Souza, Flavio L.

In: *Journal of Physical Chemistry C*, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

High-dimensional quantum gates using full-field spatial modes of photons. / Brandt, Florian; Hiekkamäki, Markus; Bouchard, Frédéric; Huber, Marcus; Fickler, Robert.

In: *Optica*, Vol. 7, No. 2, 20.02.2020, p. 98-107.

Research output: Contribution to journal › Article › Scientific › peer-review

Highly efficient charge separation in model Z-scheme TiO₂/TiSi₂/Si photoanode by micropatterned titanium silicide interlayer. / Hannula, M.; Ali-Löytty, H.; Lahtonen, K.; Saari, J.; Tukiainen, A.; Valden, M.

In: *Acta Materialia*, Vol. 174, 01.08.2019, p. 237-245.

Research output: Contribution to journal › Article › Scientific › peer-review

High performance corrosion resistant coatings by novel coaxial cold- and hot-wire laser cladding methods. / Pajukoski, H.; Näkki, J.; Thieme, S.; Tuominen, J.; Nowotny, S.; Vuoristo, P.

In: *Journal of Laser Applications*, Vol. 28, No. 1, 012011, 2016.

Research output: Contribution to journal › Article › Scientific › peer-review

High-Power 1.5 μm Tapered Distributed Bragg Reflector Laser Diodes for Eye-Safe LIDAR. / Aho, Antti T.; Viheriälä, Jukka; Koskinen, Mervi; Uusitalo, Topi; Reuna, Jarno; Guina, Mircea.

In: *IEEE Photonics Technology Letters*, Vol. 32, No. 19, 01.10.2020, p. 1249-1252.

Research output: Contribution to journal › Article › Scientific › peer-review

High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors. / Mojica, Edson; Pertuz, Said; Arguello, Henry.

In: *Optics Communications*, Vol. 404, 2017, p. 103-109.

Research output: Contribution to journal › Article › Scientific › peer-review

Hot spot temperature in an HTS Coil : Simulations with MIITs and finite element method. / Härö, E.; Stenvall, A.; Van Nugteren, J.; Kirby, G.

In: IEEE Transactions on Applied Superconductivity, Vol. 25, No. 2, 01.04.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

How well can we predict cluster fragmentation inside a mass spectrometer? / Passananti, Monica; Zapadinsky, Evgeni; Zanca, Tommaso; Kangasluoma, Juha; Mylly, Nanna; Rissanen, Matti P.; Kurtén, Theo; Ehn, Mikael; Attoui, Michel; Vehkamäki, Hanna.

In: Chemical Communications, Vol. 55, No. 42, 2019, p. 5946-5949.

Research output: Contribution to journal › Article › Scientific › peer-review

Hyperspectral phase imaging based on denoising in complex-valued eigensubspace. / Shevkunov, Igor; Katkovnik, Vladimir; Claus, Daniel; Pedrini, Giancarlo; Petrov, Nikolay V.; Egiazarian, Karen.

In: Optics and Lasers in Engineering, Vol. 127, 105973, 01.04.2020.

Research output: Contribution to journal › Article › Scientific › peer-review

ICED - Inductively Coupled Energy Dissipater for Future High Field Accelerator Magnets. / Murtomäki, Jaakko Samuel; van Nugteren, Jeroen; Kirby, Glyn; DeRijk, Gijs; Rossi, Lucio; Stenvall, Antti.

In: IEEE Transactions on Applied Superconductivity, Vol. 28, No. 8, 4009015, 12.2018.

Research output: Contribution to journal › Article › Scientific › peer-review

Identification of synchronous machine magnetization characteristics from calorimetric core-loss and no-load curve measurements. / Rasilo, Paavo; Abdallah, Ahmed Abou Elyazied; Belahcen, Anouar; Arkkio, Antero; Dupré, Luc.

In: IEEE Transactions on Magnetics, Vol. 51, No. 3, 2001304, 01.03.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

Importance of iron-loss modeling in simulation of wound-field synchronous machines. / Rasilo, Paavo; Belahcen, Anouar; Arkkio, Antero.

In: IEEE Transactions on Magnetics, Vol. 48, No. 9, 2012, p. 2495-2504.

Research output: Contribution to journal › Article › Scientific › peer-review

Improvements in the electromechanical properties of stretchable interconnects by locally tuning the stiffness. / Mosallaei, Milad; Di Vito, Donato; Khorramdel, Behnam; Mäntysalo, Matti.

In: Flexible and Printed Electronics, Vol. 5, No. 1, 015004, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Influence of As/group-III flux ratio on defects formation and photovoltaic performance of GaInNAs solar cells. / Polojärvi, Ville; Aho, Arto; Tukiainen, Antti; Raappana, Marianna; Aho, Timo; Schramm, Andreas; Guina, Mircea.

In: Solar Energy Materials and Solar Cells, Vol. 149, 01.05.2016, p. 213-220.

Research output: Contribution to journal › Article › Scientific › peer-review

Influence of environmental conditions on EMF levels in a span of overhead transmission lines. / Okun, Oleksandr; Kravchenko, Yurii; Korpinen, Leena.

In: Progress in Electromagnetics Research C, Vol. 63, 2016, p. 163-171.

Research output: Contribution to journal › Article › Scientific › peer-review

Influence of temperature-induced copper diffusion on degradation of selective chromium oxy-nitride solar absorber coatings. / Kotilainen, M.; Honkanen, M.; Mizohata, K.; Vuoristo, P.

In: Solar Energy Materials and Solar Cells, Vol. 145, 2016, p. 323-332.

Research output: Contribution to journal › Article › Scientific › peer-review

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. / Bourhis, Kevin; Boetti, Nadia G.; Koponen, Joonas; Milanese, Daniel; Petit, Laetitia.

In: Optical Materials, Vol. 36, No. 5, 03.2014, p. 926-931.

Research output: Contribution to journal › Article › Scientific › peer-review

Influence of the phosphate glass melt on the corrosion of functional particles occurring during the preparation of glass-ceramics. / Ojha, N.; Laihinen, T.; Salminen, T.; Lastusaari, M.; Petit, L.

In: *Ceramics International*, Vol. 44, No. 10, 06.2018, p. 11807-11811.

Research output: Contribution to journal › Article › Scientific › peer-review

Inkjet catalyst printing and electroless copper deposition for low-cost patterned microwave passive devices on paper. / Cook, Benjamin S.; Fang, Yunnan; Kim, Sangkil; Le, Taoran; Goodwin, W. Brandon; Sandhage, Kenneth H.; Tentzeris, Manos M.

In: *Electronic Materials Letters*, Vol. 9, No. 5, 09.2013, p. 669-676.

Research output: Contribution to journal › Article › Scientific › peer-review

Inkjet printing of radio frequency electronics : Design methodologies and application of novel nanotechnologies. / Le, Taoran; Lin, Ziyin; Vyas, Rushi; Lakafosis, Vasileios; Yang, Li; Traille, Anya; Tentzeris, Manos M.; Wong, Ching Ping.

In: *Journal of Electronic Packaging*, Vol. 135, No. 1, 011007, 2013.

Research output: Contribution to journal › Article › Scientific › peer-review

Instability of cuboctahedral copper clusters. / Valkealahti, S.; Manninen, M.

In: *Physical Review B*, Vol. 45, No. 16, 01.01.1992, p. 9459-9462.

Research output: Contribution to journal › Article › Scientific › peer-review

Interfacial design and structure of protein/polymer films on oxidized AlGaIn surfaces. / Gupta, Samit K.; Wu, Hao Hsuan; Kwak, Kwang J.; Casal, Patricia; Nicholson, Theodore R.; Wen, Xuejin; Anisha, R.; Bhushan, Bharat; Berger, Paul R.; Lu, Wu; Brillson, Leonard J.; Lee, Stephen Craig.

In: *Journal of Physics D: Applied Physics*, Vol. 44, No. 3, 34010, 26.01.2011.

Research output: Contribution to journal › Article › Scientific › peer-review

Investigating solvent effects on aggregation behaviour, linear and nonlinear optical properties of silver nanoclusters. / Bhavitha, K. B.; Nair, Anju K.; Perumbilavil, Sreekanth; Joseph, Saju; Kala, M. S.; Saha, Abhijit; Narayanan, R. Aravinda; Hameed, Nishar; Thomas, Sabu; Oluwafemi, Oluwatobi S.; Kalarikkal, Nandakumar.

In: *Optical Materials*, Vol. 73, 01.11.2017, p. 695-705.

Research output: Contribution to journal › Article › Scientific › peer-review

Investigating the metallic behavior of Na clusters using site-specific polarizabilities. / Ma, Li; Jackson, Koblar Alan; Wang, Jianguang; Horoi, Mihai; Jellinek, Julius.

In: *Physical Review B*, Vol. 89, No. 3, 035429, 24.01.2014.

Research output: Contribution to journal › Article › Scientific › peer-review

Investigation of long-term chemical stability of structured ZnO films in aqueous solutions of varying conditions. /

Heinonen, Saara; Nikkanen, Juha-Pekka; Huttunen-Saarivirta, Elina; Levänen, Erkki.

In: *Thin Solid Films*, Vol. 638, 30.09.2017, p. 410-419.

Research output: Contribution to journal › Article › Scientific › peer-review

Investigation of REBCO Roebel Cable Irreversible Critical Current Degradation Under Transverse Pressure. / Murtomäki, Jaakko Samuel; Kouhia, Reijo; Stenvall, Antti; Bottura, Luca; Kirby, Glyn; van Nugteren, Jeroen; DeRijk, Gijs; Rossi, Lucio.

In: *IEEE Transactions on Applied Superconductivity*, Vol. 28, No. 4, 4802506, 06.2018.

Research output: Contribution to journal › Article › Scientific › peer-review

Iron losses, magnetoelasticity and magnetostriction in ferromagnetic steel laminations. / Rasilo, Paavo; Singh, Deepak; Belahcen, Anouar; Arkkio, Antero.

In: *IEEE Transactions on Magnetics*, Vol. 49, No. 5, 2041-2044.

Research output: Contribution to journal › Article › Scientific › peer-review

Irradiation promoted exchange reaction with disulfide substituents. / Khan, M. Nuruzzaman; Zharnikov, Michael.
In: Journal of Physical Chemistry C, Vol. 117, No. 28, 18.07.2013, p. 14534-14543.
Research output: Contribution to journal > Article > Scientific > peer-review

Laser angle-resolved photoemission as a probe of initial state kz dispersion, final-state band gaps, and spin texture of Dirac states in the Bi₂Te₃ topological insulator. / Årrälä, Minna; Hafiz, Hasnain; Mou, Daixiang; Wu, Yun; Jiang, Rui; Riedemann, Trevor; Lograsso, Thomas A.; Barbiellini, Bernardo; Kaminski, Adam; Bansil, Arun; Lindroos, Matti.
In: Physical Review B, Vol. 94, No. 15, 155144, 27.10.2016.
Research output: Contribution to journal > Article > Scientific > peer-review

Light-trapping enhanced thin-film III-V quantum dot solar cells fabricated by epitaxial lift-off. / Cappelluti, F.; Kim, D.; van Eerden, M.; Cédola, A. P.; Aho, T.; Bissels, G.; Elsehrawy, F.; Wu, J.; Liu, H.; Mulder, P.; Bauhuis, G.; Schermer, J.; Niemi, T.; Guina, M.
In: Solar Energy Materials and Solar Cells, Vol. 181, 2018, p. 83-92.
Research output: Contribution to journal > Article > Scientific > peer-review

Linear and nonlinear light beam propagation in chiral nematic liquid crystal waveguides. / Laudyn, Urszula A.; Kwaśny, Michał; Jung, Paweł S.; Trippenbach, Marek; Assanto, Gaetano; Karpierz, Mirosław A.
In: Photonics Letters of Poland, Vol. 8, No. 1, 2016, p. 11-13.
Research output: Contribution to journal > Article > Scientific > peer-review

Liquid crystal light valves : A versatile platform for nematicons. / Assanto, Gaetano; Piccardi, Armando; Alberucci, Alessandro; Residori, Stefania; Bortolozzo, Umberto.
In: Photonics Letters of Poland, Vol. 1, No. 4, 2009, p. 151-153.
Research output: Contribution to journal > Article > Scientific > peer-review

Localized surface plasmon resonance in silver nanoparticles : Atomistic first-principles time-dependent density-functional theory calculations. / Kuisma, M.; Sakko, A.; Rossi, T. P.; Larsen, A. H.; Enkovaara, J.; Lehtovaara, L.; Rantala, T. T.
In: Physical Review B, Vol. 91, No. 11, 115431, 24.03.2015.
Research output: Contribution to journal > Article > Scientific > peer-review

Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges. / Baek, Jinseok; Umeyama, Tomokazu; Stranius, Kati; Yamada, Hiroki; Tkachenko, Nikolai V.; Imahori, Hiroshi.
In: Journal of Physical Chemistry C, Vol. 121, No. 25, 29.06.2017, p. 13952-13961.
Research output: Contribution to journal > Article > Scientific > peer-review

Low-temperature germanium thin films on silicon. / Sorianello, Vito; Colace, Lorenzo; Armani, Nicola; Rossi, Francesca; Ferrari, Claudio; Lazzarini, Laura; Assanto, Gaetano.
In: Optical Materials Express, Vol. 1, No. 5, 01.09.2011, p. 856-865.
Research output: Contribution to journal > Article > Scientific > peer-review

Luminescent (Er,Ho)₂O₃ thin films by ALD to enhance the performance of silicon solar cells. / Ghazy, Amr; Safdar, Muhammad; Lastusaari, Mika; Aho, Arto; Tukiainen, Antti; Savin, Hele; Guina, Mircea; Karppinen, Maarit.
In: Solar Energy Materials and Solar Cells, Vol. 219, 110787, 2020.
Research output: Contribution to journal > Article > Scientific > peer-review

Magnetic and mechanical design of a 16 T common coil dipole for FCC. / Toral, Fernando; Munilla, Javier; Salmi, Tiina.
In: IEEE Transactions on Applied Superconductivity, Vol. 28, No. 3, 4004305, 2018.
Research output: Contribution to journal > Article > Scientific > peer-review

Magnetic non-contact friction from domain wall dynamics actuated by oscillatory mechanical motion. / Rissanen, Ilari; Laurson, Lasse.
In: Journal of Physics D: Applied Physics, Vol. 52, No. 44, 445002, 13.08.2019.
Research output: Contribution to journal > Article > Scientific > peer-review

Measuring optical anisotropy in poly(3,4-ethylene dioxythiophene) : poly(styrene sulfonate) films with added graphene. / Isoniemi, Tommi; Tuukkanen, Sampo; Cameron, David C.; Simonen, Janne; Toppari, J. Jussi.
In: *Organic Electronics*, Vol. 25, 09.07.2015, p. 317-323.
Research output: Contribution to journal › Article › Scientific › peer-review

Mechanical behavior of a 16 T FCC dipole magnet during a quench. / Zhao, Junjie; Stenvall, Antti; Salmi, Tiina; Gao, Yuanwen; Lorin, Clement.
In: *IEEE Transactions on Applied Superconductivity*, Vol. 27, No. 6, 4004407, 2017.
Research output: Contribution to journal › Article › Scientific › peer-review

Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting. / Barberi, Jacopo; Nommeots-Nomm, Amy; Fiume, Elisa; Verné, Enrica; Massera, Jonathan; Bairo, Francesco.
In: *Biomedical Glasses*, Vol. 5, No. 1, 2019, p. 140-147.
Research output: Contribution to journal › Article › Scientific › peer-review

Mechanical Effects of the Nonuniform Current Distribution on HTS Coils for Accelerators Wound With REBCO Roebel Cable. / Murtomaki, Jaakko S.; Van Nugteren, Jeroen; Kirby, Glyn; Rossi, Lucio; Ruuskanen, Janne; Stenvall, Antti.
In: *IEEE Transactions on Applied Superconductivity*, Vol. 27, No. 4, 4100405, 01.06.2017.
Research output: Contribution to journal › Article › Scientific › peer-review

Mechanical stress analysis during a quench in CLIQ protected 16 T dipole magnets designed for the future circular collider. / Zhao, Junjie; Prioli, Marco; Stenvall, Antti; Salmi, Tiina; Gao, Yuanwen; Caiffi, Barbara; Lorin, Clement; Marinozzi, Vittorio; Farinon, Stefania; Sorbi, Massimo.
In: *Physica C: Superconductivity and its Applications*, Vol. 550, 15.07.2018, p. 27-34.
Research output: Contribution to journal › Article › Scientific › peer-review

Membrane bound COMT isoform is an interfacial enzyme : General mechanism and new drug design paradigm. / Magarkar, Aniket; Parkkila, Petteri; Viitala, Tapani; Lajunen, Tatu; Mobarak, Edouard; Licari, Giuseppe; Cramariuc, Oana; Vauthey, Eric; Róg, Tomasz; Bunker, Alex.
In: *Chemical Communications*, Vol. 54, No. 28, 11.04.2018, p. 3440-3443.
Research output: Contribution to journal › Article › Scientific › peer-review

Micro-Raman characterization of Germanium thin films evaporated on various substrates. / Sorianello, V.; Colace, L.; Assanto, G.; Nardone, M.
In: *Microelectronic Engineering*, Vol. 88, No. 4, 04.2011, p. 492-495.
Research output: Contribution to journal › Article › Scientific › peer-review

Mining tailings as raw materials for reaction-sintered aluminosilicate ceramics : Effect of mineralogical composition on microstructure and properties. / Karhu, Marjaana; Lagerbom, Juha; Solismaa, Soili; Honkanen, Mari; Ismailov, Arnold; Räsänen, Marja Liisa; Huttunen-Saarivirta, Elina; Levänen, Erkki; Kivikytö-Reponen, Päivi.
In: *Ceramics International*, Vol. 45, No. 4, 03.2019, p. 4840-4848.
Research output: Contribution to journal › Article › Scientific › peer-review

Modification of Surface States of Hematite-Based Photoanodes by Submonolayer of TiO₂ for Enhanced Solar Water Splitting. / Palmolahti, Lauri; Ali-Löytty, Harri; Khan, Ramsha; Saari, Jesse; Tkachenko, Nikolai V.; Valden, Mika.
In: *Journal of Physical Chemistry C*, Vol. 124, No. 24, 2020, p. 13094-13101.
Research output: Contribution to journal › Article › Scientific › peer-review

Morphology evolution of PS-b-PDMS block copolymer and its hierarchical directed self-assembly on block copolymer templates. / Rasappa, Sozaraj; Schulte, Lars; Borah, Dipu; Hulkkonen, Hanna; Ndoni, Sokol; Salminen, Turkka; Sentharamaikanan, Ramsankar; Morris, Michael A.; Niemi, Tapio.
In: *Microelectronic Engineering*, Vol. 192, 15.05.2018, p. 1-7.
Research output: Contribution to journal › Article › Scientific › peer-review

Multisoliton complexes in fiber lasers. / Korobko, D. A.; Gumenyuk, R.; Zolotovskii, I. O.; Okhotnikov, O. G.
In: *Optical Fiber Technology*, Vol. 20, No. 6, 12.2014, p. 593-609.
Research output: Contribution to journal › Article › Scientific › peer-review

Multistep Bloch-line-mediated Walker breakdown in ferromagnetic strips. / Hütner, Johanna; Herranen, Touko; Laurson, Lasse.

In: Physical Review B, Vol. 99, No. 17, 174427, 24.05.2019.

Research output: Contribution to journal > Article > Scientific > peer-review

Narrow-linewidth 780 nm DFB lasers fabricated using nanoimprint lithography. / Virtanen, Heikki; Uusitalo, Topi; Karjalainen, Maija; Ranta, Sanna; Viheriala, Jukka; Dumitrescu, Mihail.

In: IEEE Photonics Technology Letters, Vol. 30, No. 1, 2018, p. 51-54.

Research output: Contribution to journal > Article > Scientific > peer-review

Near-infrared photodetectors in evaporated ge : Characterization and TCAD simulations. / Sorianello, Vito; De Iacovo, Andrea; Colace, Lorenzo; Assanto, Gaetano.

In: IEEE Transactions on Electron Devices, Vol. 60, No. 6, 6515586, 2013, p. 1995-2000.

Research output: Contribution to journal > Article > Scientific > peer-review

Near-surface defect profiling with slow positrons : Argon-sputtered Al(110). / Vehanen, A.; Mäkinen, J.; Hautajarvi, P.; Huomo, H.; Lahtinen, J.; Nieminen, R. M.; Valkealahti, S.

In: Physical Review B, Vol. 32, No. 11, 01.01.1985, p. 7561-7563.

Research output: Contribution to journal > Article > Scientific > peer-review

Near-threshold high spin amplification in a 1300 nm GaInNAs spin laser. / Cemlyn, Ben; Adams, Mike; Harbord, Edmund; Li, Nianqiang; Henning, Ian D.; Oulton, Ruth; Korpijärvi, Ville Markus; Guina, Mircea.

In: Semiconductor Science and Technology, Vol. 33, No. 9, 094005, 01.08.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Non-destructive and wireless monitoring of biodegradable polymers. / Salpavaara, Timo; Hänninen, Aleks; Antniemi, Anni; Leikkala, Jukka; Kellomäki, Minna.

In: Sensors and Actuators B: Chemical, Vol. 251, 2017, p. 1018-1025.

Research output: Contribution to journal > Article > Scientific > peer-review

Nonlinear optical activity effects in complex anisotropic three-dimensional media. / Huttunen, Mikko J.; Partanen, Mari; Bautista, Godofredo; Chu, Shi-Wei; Kauranen, Martti.

In: Optical Materials Express, Vol. 5, No. 1, 2015, p. 11-21.

Research output: Contribution to journal > Article > Scientific > peer-review

Nonlocal soliton scattering in random potentials. / Piccardi, Armando; Residori, Stefania; Assanto, Gaetano.

In: Journal of Optics, Vol. 18, No. 7, 07LT01, 01.07.2016.

Research output: Contribution to journal > Article > Scientific > peer-review

Novel borosilicate bioactive scaffolds with persistent luminescence. / Del Cerro, Paloma Roldán; Teittinen, Henriikka; Norrbo, Isabella; Lastusaari, Mika; Massera, Jonathan; Petit, Laetitia.

In: Biomedical Glasses, Vol. 6, No. 1, 2020, p. 1-9.

Research output: Contribution to journal > Article > Scientific > peer-review

Novel oxyfluorophosphate glasses and glass-ceramics. / Cui, S.; Massera, J.; Lastusaari, M.; Hupa, L.; Petit, L.

In: Journal of Non-Crystalline Solids, Vol. 445-446, 01.08.2016, p. 40-44.

Research output: Contribution to journal > Article > Scientific > peer-review

Observation of cavity structures in composite metamaterials. / Caglayan, Humeyra; Özbay, Ekmel.

In: Journal of Nanophotonics, Vol. 4, No. 1, 041790, 2010.

Research output: Contribution to journal > Article > Scientific > peer-review

Observation of off-axis directional beaming via subwavelength asymmetric metallic gratings. / Caglayan, H.; Bulu, I.; Özbay, E.

In: Journal of Physics D: Applied Physics, Vol. 42, No. 4, 045105, 2009.

Research output: Contribution to journal › Article › Scientific › peer-review

Observation of PT-symmetric quantum interference. / Klauck, F.; Teuber, L.; Ornigotti, M.; Heinrich, M.; Scheel, S.; Szameit, A.

In: Nature Photonics, 16.09.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Observation of unusual metal-semiconductor interaction and metal-induced gap states at an oxide-semiconductor interface : The case of epitaxial BaO/Ge(100) junction. / Kuzmin, M.; Laukkanen, P.; Yasir, M.; Mäkelä, J.; Tuominen, M.; Dahl, J.; Punkkinen, M. P. J.; Kokko, K.; Hedman, H. P.; Moon, J.; Punkkinen, R.; Polojärvi, V.; Korpjärvi, V. M.; Guina, M.

In: Physical Review B, Vol. 92, No. 16, 165311, 20.10.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

On the limit of superhydrophobicity : Defining the minimum amount of TiO₂ nanoparticle coating. / Haapanen, Janne; Aromaa, Mikko; Teisala, Hannu; Juuti, Paxton; Tuominen, Mikko; Sillanpää, Markus; Stepien, Milena; Saarinen, Jarkko J.; Toivakka, Martti; Kuusipalo, Jurkka; Mäkelä, Jyrki M.

In: Materials Research Express, Vol. 6, No. 3, 035004, 2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Open Material Property Library With Native Simulation Tool Integrations - MASTO. / Stenvall, Antti; Lahtinen, Valtteri.

In: IEEE Transactions on Applied Superconductivity, 2018.

Research output: Contribution to journal › Article › Scientific › peer-review

Optical power monitors in Ge monolithically integrated on SOI chips. / Colace, L.; Sorianello, V.; Romagnoli, M.; Socci, L.; Assanto, G.

In: Microelectronic Engineering, Vol. 88, No. 4, 04.2011, p. 514-517.

Research output: Contribution to journal › Article › Scientific › peer-review

Optical properties of GaAs_{1-x}Bi_x/GaAs quantum well structures grown by molecular beam epitaxy on (100) and (311)B GaAs substrates. / Gunes, M.; Ükelge, M. O.; Donmez, O.; Erol, A.; Gumus, C.; Alghamdi, H.; Galeti, H. V.A.; Henini, M.; Schmidbauer, M.; Hilska, J.; Puustinen, J.; Guina, M.

In: Semiconductor Science and Technology, Vol. 33, No. 12, 124015, 13.11.2018.

Research output: Contribution to journal › Article › Scientific › peer-review

Optimization of an E3SPreSSO Energy-Extraction System for High-Field Superconducting Magnets. / Ruuskanen, Janne; Stenvall, Antti; Van Nugteren, Jeroen; Lahtinen, Valtteri.

In: IEEE Transactions on Applied Superconductivity, Vol. 28, No. 3, 4700805, 01.04.2018.

Research output: Contribution to journal › Article › Scientific › peer-review

Optimization of convectively cooled heat sinks. / Lampio, Kaj; Karvinen, Reijo.

In: Microelectronics Reliability, Vol. 79, 2017, p. 473-479.

Research output: Contribution to journal › Article › Scientific › peer-review

Paraxial light beams in structured anisotropic media. / Jisha, Chandroth P.; Alberucci, Alessandro.

In: Journal of the Optical Society of America A: Optics and Image Science, and Vision, Vol. 34, No. 11, 01.11.2017, p. 2019-2024.

Research output: Contribution to journal › Article › Scientific › peer-review

Passive resonance sensor based method for monitoring particle suspensions. / Salpavaara, Timo; Järveläinen, Matti; Seppälä, Sari; Yli-Hallila, Teemu; Verho, Jarmo; Viikko, Matti; Lekkala, Jukka; Levänen, Erkki.

In: Sensors and Actuators B: Chemical, Vol. 219, 08.06.2015, p. 324-330.

Research output: Contribution to journal › Article › Scientific › peer-review

Perfect magnetic mirror and simple perfect absorber in the visible spectrum. / Valagiannopoulos, C. A.; Tukiainen, A.; Aho, T.; Niemi, T.; Guina, M.; Tretyakov, S. A.; Simovski, C. R.

In: Physical Review B, Vol. 91, No. 11, 115305, 11.03.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

Performance enhancement of the RFID EPC Gen2 protocol by exploiting collision re-recovery. / De Donno, D.; Tarricone, L.; Catarinucci, L.; Lakafosis, V.; Tentzeris, M. M.

In: Progress in Electromagnetics Research B, No. 43, 2012, p. 53-72.

Research output: Contribution to journal › Article › Scientific › peer-review

Phosphate glasses with blue persistent luminescence prepared using the direct doping method. / Ojha, N.; Tuomisto, M.; Lastusaari, M.; Petit, L.

In: Optical Materials, Vol. 87, 01.2019, p. 151-156.

Research output: Contribution to journal › Article › Scientific › peer-review

Photocatalytic and antibacterial properties of ZnO films with different surface topographies on stainless steel substrate. /

Heinonen, Saara; Kannisto, Matti; Nikkanen, Juha-Pekka; Huttunen-Saarivirta, Elina; Karp, Matti; Levänen, Erkki.

In: Thin Solid Films, Vol. 616, 01.10.2016, p. 842-849.

Research output: Contribution to journal › Article › Scientific › peer-review

Photoinduced bending upon pulsed irradiation in azobenzene-containing crosslinked liquid-crystalline polymers. /

Shimamura, Aki; Priimagi, Arri; Mamiya, Jun Ichi; Kinoshita, Motoi; Ikeda, Tomiki; Shishido, Atsushi.

In: Journal of Nonlinear Optical Physics and Materials, Vol. 20, No. 4, 09.2011, p. 405-413.

Research output: Contribution to journal › Article › Scientific › peer-review

Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods : Aggregation Effects. / Virkki, Kirsi; Hakola, Hanna; Urbani, Maxence; Tejerina, Lara; Ince, Mine; Martínez-Díaz, M. Victoria; Torres, Tomás; Golovanova, Viktoria; Golovanov, Viacheslav; Tkachenko, Nikolai V.

In: Journal of Physical Chemistry C, Vol. 121, No. 17, 04.05.2017, p. 9594-9605.

Research output: Contribution to journal › Article › Scientific › peer-review

Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids. / Virkki, Kirsi; Demir, Sinem; Lemmetyinen, Helge; Tkachenko, Nikolai V.

In: Journal of Physical Chemistry C, Vol. 119, No. 31, 23.07.2015, p. 17561-17572.

Research output: Contribution to journal › Article › Scientific › peer-review

Photoinduced surface patterning of azobenzene-containing supramolecular dendrons, dendrimers and dendronized polymers. / Vapaavuori, Jaana; Priimagi, Arri; Soininen, Antti J.; Canilho, Nadia; Kasëmi, Edis; Ruokolainen, Janne; Kaivola, Matti; Ikkala, Olli.

In: Optical Materials Express, Vol. 3, No. 6, 2013, p. 711-722.

Research output: Contribution to journal › Article › Scientific › peer-review

Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems. / Baek, Jinseok; Umeyama, Tomokazu; Mizuno, Satoshi; Tkachenko, Nikolai V.; Imahori, Hiroshi.

In: Journal of Physical Chemistry C, Vol. 121, No. 39, 2017.

Research output: Contribution to journal › Article › Scientific › peer-review

Photovoltaic properties of low-bandgap (0.7–0.9eV) lattice-matched GaInNAsSb solar junctions grown by molecular beam epitaxy on GaAs. / Isoaho, Riku; Aho, Arto; Tukiainen, Antti; Aho, Timo; Raappana, Marianna; Salminen, Turkka; Reuna, Jarno; Guina, Mircea.

In: Solar Energy Materials and Solar Cells, Vol. 195, 15.06.2019, p. 198-203.

Research output: Contribution to journal › Article › Scientific › peer-review

Physics and applications of photonic crystals. / Ozbay, Ekmel; Bulu, Irfan; Aydin, Koray; Caglayan, Humeyra; Guven, Kaan.

In: Photonics and Nanostructures - Fundamentals and Applications, Vol. 2, No. 2, 10.2004, p. 87-95.

Research output: Contribution to journal › Article › Scientific › peer-review

Physisorption of benzene on a tin dioxide surface : Van der Waals interaction. / Viitala, Matti; Kuisma, Mikael; Rantala, Tapio T.

In: Physical Review B, Vol. 85, No. 8, 085412, 08.02.2012, p. 1-5.

Research output: Contribution to journal > Article > Scientific > peer-review

Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications. / Selvan, N. Tamil; Eshwaran, S. B.; Das, A.; Stöckelhuber, K. W.; Wiefßner, S.; Pötschke, P.; Nando, G. B.; Chervanyov, A. I.; Heinrich, G.

In: Sensors and Actuators, A: Physical, Vol. 239, 01.03.2016, p. 102-113.

Research output: Contribution to journal > Article > Scientific > peer-review

Plasma etch technologies for the development of ultra-small feature size transistor devices. / Borah, D.; Shaw, M. T.; Rasappa, S.; Farrell, R. A.; O'Mahony, C.; Faulkner, C. M.; Bosea, M.; Gleeson, P.; Holmes, J. D.; Morris, M. A.

In: Journal of Physics D: Applied Physics, Vol. 44, No. 17, 174012, 04.05.2011.

Research output: Contribution to journal > Article > Scientific > peer-review

Plasmon lifetime enhancement in a bright-dark mode coupled system. / Yildiz, Bilge Can; Bek, Alpan; Tasgin, Mehmet Emre.

In: Physical Review B, Vol. 101, No. 3, 035416, 16.01.2020.

Research output: Contribution to journal > Article > Scientific > peer-review

Polymer stabilization enhances the orientational optical nonlinearity of oligothiophene-doped nematic liquid crystals. /

Aihara, Yosuke; Kinoshita, Motoi; Wang, Jing; Mamiya, Jun Ichi; Priimagi, Arri; Shishido, Atsushi.

In: Advanced Optical Materials, Vol. 1, No. 11, 11.2013, p. 787-791.

Research output: Contribution to journal > Article > Scientific > peer-review

Power loss mechanisms in n-type modulation-doped AlGaAs/GaAsBi quantum well heterostructures. / Donmez, O.; Aydin, M.; Ardali, Yildirim, S.; Tiraş, E.; Erol, A.; Puustinen, J.; Hilska, J.; Guina, M.

In: Semiconductor Science and Technology, Vol. 35, No. 9, 095038, 2020.

Research output: Contribution to journal > Article > Scientific > peer-review

Precipitate formation in aluminium alloys : Multi-scale modelling approach. / Kleiven, David; Akola, Jaakko.

In: Acta Materialia, Vol. 195, 15.08.2020, p. 123-131.

Research output: Contribution to journal > Article > Scientific > peer-review

Preparation of water-based carbon nanotube inks and application in the inkjet printing of carbon nanotube gas sensors. /

Lin, Ziyin; Le, Taoran; Song, Xiaojuan; Yao, Yagang; Li, Zhuo; Moon, Kyoung Sik; Tentzeris, Manos M.; Wong, Ching Ping.

In: Journal of Electronic Packaging, Vol. 135, No. 1, 011001, 2013.

Research output: Contribution to journal > Article > Scientific > peer-review

Printable and flexible macroporous organosilica film with high protein adsorption capacity. / Heikkinen, Jarkko J.; Kivimäki, Liisa; Hytönen, Vesa P.; Kulomaa, Markku S.; Hormi, Osmo E. O.

In: Thin Solid Films, Vol. 520, No. 6, 01.01.2012, p. 1934-1937.

Research output: Contribution to journal > Article > Scientific > peer-review

Programming Photoresponse in Liquid Crystal Polymer Actuators with Laser Projector. / Wani, Owies M.; Zeng, Hao; Wasylczyk, Piotr; Priimagi, Arri.

In: Advanced Optical Materials, Vol. 6, No. 1, 1700949, 2018.

Research output: Contribution to journal > Article > Scientific > peer-review

Progress on HL-LHC Nb₃Sn Magnets. / Todesco, Ezio; Annarella, M.; Ambrosio, Giorgio; Apollinari, Giorgio; Ballarino, Amalia; Bajas, H.; Bajko, Marta; Bordini, Bernardo; Bossert, R.; Bottura, Luca; Cavanna, E.; Cheng, D.; Chlachidze, G.; De Rijk, Gijs; Dimarco, J.; Ferracin, Paolo; Fleiter, Jerome; Guinchard, M.; Hafalia, A.; Holik, E.; Izquierdo Bermudez, S.; Lackner, F.; Marchevsky, M.; Loeffler, C.; Nobrega, A.; Perez, Juan Carlos; Prestemon, Soren; Ravaioli, E.; Rossi, Lucio; Sabbi, Gianluca; Salmi, T.; Savary, Frederic; Schmalzle, J.; Stoynev, S.; Strauss, T.; Tartaglia, M.; Vallone, Giorgio; Velez, Gueorgui; Wanderer, Peter; Wang, X.; Willering, Gerard; Yu, M.

In: IEEE Transactions on Applied Superconductivity, Vol. 28, No. 4, 4008809, 01.06.2018.

Research output: Contribution to journal › Article › Scientific › peer-review

Properties of nematicons in low-birefringence nematic liquid crystals. / Kwaśny, Michał; Laudyn, Urszula A.; Sala, Filip A.; Piccardi, Armando; Alberucci, Alessandro; Karpierz, Mirosław A.; Assanto, Gaetano.

In: *Photonics Letters of Poland*, Vol. 5, No. 1, 2013, p. 8-10.

Research output: Contribution to journal › Article › Scientific › peer-review

Protection Heater Design Validation for the LARP Magnets Using Thermal Imaging. / Marchevsky, M.; Turqueti, M.; Cheng, D. W.; Felice, H.; Sabbi, G.; Salmi, T.; Stenvall, A.; Chlachidze, G.; Ambrosio, G.; Ferracin, P.; Izquierdo Bermudez, S.; Perez, J. C.; Todesco, E.

In: *IEEE Transactions on Applied Superconductivity*, Vol. 26, No. 4, 4003605, 01.06.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Quench Protection Study of the Eurocircol 16 T $\cos\theta$ Dipole for the Future Circular Collider (FCC). / Marinozzi, Vittorio; Bellomo, Giovanni; Caiffi, Barbara; Fabbriatore, Pasquale; Farinon, Stefania; Salmi, Tiina; Sorbi, Massimo; Stenvall, Antti; Volpini, Giovanni.

In: *IEEE Transactions on Applied Superconductivity*, Vol. 27, No. 4, 4702505, 01.06.2017.

Research output: Contribution to journal › Article › Scientific › peer-review

Quench Protection Study of the Updated MQXF for the LHC Luminosity Upgrade (HiLumi LHC). / Marinozzi, Vittorio; Ambrosio, Giorgio; Ferracin, Paolo; Izquierdo Bermudez, Susana; Rysti, Juho; Salmi, Tiina; Sorbi, Massimo; Todesco, Ezio.

In: *IEEE Transactions on Applied Superconductivity*, Vol. 26, No. 4, 4001805, 01.06.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Radiation properties of sources inside photonic crystals. / Bulu, Irfan; Caglayan, Humeyra; Ozbay, Ekmel.

In: *Physical Review B - Condensed Matter and Materials Physics*, Vol. 67, No. 20, 15.05.2003.

Research output: Contribution to journal › Article › Scientific › peer-review

Rapid and facile synthesis of graphene oxide quantum dots with good linear and nonlinear optical properties. / Sakho, El Hadji Mamour; Oluwafemi, Oluwatobi S.; Perumbilavil, Sreekanth; Philip, Reji; Kala, M. S.; Thomas, Sabu; Kalarikkal, Nandakumar.

In: *Journal of Materials Science: Materials in Electronics*, Vol. 27, No. 10, 2016, p. 10926–10933.

Research output: Contribution to journal › Article › Scientific › peer-review

Rapid and sensitive detection of norovirus antibodies in human serum with a bilayer interferometry biosensor. / Auer, Sanna; Koho, Tiia; Uusi-Kerttula, Hanni; Vesikari, Timo; Blazevic, Vesna; Hytönen, Vesa P.

In: *Sensors and Actuators B: Chemical*, Vol. 221, 31.12.2015, p. 507-514.

Research output: Contribution to journal › Article › Scientific › peer-review

Rational design of a printable, highly conductive silicone-based electrically conductive adhesive for stretchable radio-frequency antennas. / Li, Zhuo; Le, Taoran; Wu, Zhenkun; Yao, Yagang; Li, Liyi; Tentzeris, Manos; Moon, Kyoung Sik; Wong, C. P.

In: *Advanced Functional Materials*, Vol. 25, No. 3, 21.01.2015, p. 464-470.

Research output: Contribution to journal › Article › Scientific › peer-review

Realization of Free-Space Long-Distance Self-Healing Bessel Beams. / Vetter, Christian; Steinkopf, Ralf; Bergner, Klaus; Ornigotti, Marco; Nolte, Stefan; Gross, Herbert; Szameit, Alexander.

In: *Laser and Photonics Reviews*, Vol. 13, No. 10, 1900103, 01.10.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Real-time full-field characterization of transient dissipative soliton dynamics in a mode-locked laser. / Ryczkowski, P.; Närhi, M.; Billet, C.; Merolla, J. M.; Genty, G.; Dudley, J. M.

In: *Nature Photonics*, Vol. 12, 2018, p. 221–227.

Research output: Contribution to journal › Article › Scientific › peer-review

Refraction of nonlinear light beams in nematic liquid crystals. / Assanto, Gaetano; Smyth, Noel F.; Xia, Wenjun.
In: Journal of Nonlinear Optical Physics and Materials, Vol. 21, No. 3, 1250033, 09.2012.
Research output: Contribution to journal › Article › Scientific › peer-review

Relaxation behavior of densified sodium aluminoborate glass. / Veber, A.; Smedskjaer, M.M.; de Ligny, D.
In: Acta Materialia, Vol. 198, 01.10.2020, p. 153-167.
Research output: Contribution to journal › Article › Scientific › peer-review

Residual stress development in cold sprayed Al, Cu and Ti coatings. / Suhonen, T.; Varis, T.; Dosta, S.; Torrell, M.; Guilemany, J. M.
In: Acta Materialia, Vol. 61, No. 17, 10.2013, p. 6329-6337.
Research output: Contribution to journal › Article › Scientific › peer-review

Resolving unoccupied electronic states with laser ARPES in bismuth-based cuprate superconductors. / Miller, Tristan L.; Ärrälä, Minna; Smallwood, Christopher L.; Zhang, Wentao; Hafiz, Hasnain; Barbiellini, Bernardo; Kurashima, Koshi; Adachi, Tadashi; Koike, Yoji; Eisaki, Hiroshi; Lindroos, Matti; Bansil, Arun; Lee, Dung Hai; Lanzara, Alessandra.
In: Physical Review B, Vol. 91, No. 8, 085109, 13.02.2015.
Research output: Contribution to journal › Article › Scientific › peer-review

Restoring Integral Images from Focal Stacks Using Compressed Sensing Techniques. / Trujillo-Sevilla, J. M.; Katkovnik, Vladimir; Javidi, Bahram; Rodríguez-Ramos, J. M.
In: Journal of Display Technology, Vol. 12, No. 7, 01.07.2016, p. 701-706.
Research output: Contribution to journal › Article › Scientific › peer-review

Reversible photodoping of TiO₂ nanoparticles. / Joost, Urmas; Sutka, Andris; Oja, Marek; Smits, Krisjanis; Doebelin, Nicola; Loot, Ardi; Järvekülg, Martin; Hirsimäki, Mika; Valden, Mika; Nommiste, Ergo.
In: Chemistry of Materials, Vol. 30, No. 24, 26.12.2018, p. 8968-8974.
Research output: Contribution to journal › Article › Scientific › peer-review

RF measurements to pinpoint defects in inkjet-printed, thermally and mechanically stressed coplanar waveguides. / Myllymäki, Sami; Putaala, Jussi; Hannu, Jari; Kunnari, Esa; Mäntysalo, Matti.
In: Microelectronics Reliability, Vol. 65, 01.10.2016, p. 142-150.
Research output: Contribution to journal › Article › Scientific › peer-review

Roadmap on optical rogue waves and extreme events. / Akhmediev, Nail; Kibler, Bertrand; Baronio, Fabio; Belić, Milivoj; Zhong, Wei Ping; Zhang, Yiqi; Chang, Wonkeun; Soto-Crespo, Jose M.; Vouzas, Peter; Grelu, Philippe; Lecaplain, Caroline; Hammani, K.; Rica, S.; Picozzi, A.; Tlidi, Mustapha; Panajotov, Krassimir; Mussot, Arnaud; Bendahmane, Abdelkrim; Szriftgiser, Pascal; Genty, Goery; Dudley, John; Kudlinski, Alexandre; Demircan, Ayhan; Morgner, Uwe; Amiraranashvili, Shalva; Bree, Carsten; Steinmeyer, Günter; Masoller, C.; Broderick, Neil G R; Runge, Antoine F J; Erkintalo, Miro; Residori, S.; Bortolozzo, U.; Arecchi, F. T.; Wabnitz, Stefan; Tiofack, C. G.; Coulibaly, S.; Taki, M.
In: Journal of Optics, Vol. 18, No. 6, 063001, 01.06.2016.
Research output: Contribution to journal › Article › Scientific › peer-review

Scalar diffraction field calculation from curved surfaces via Gaussian beam decomposition. / Şahin, Erdem; Onural, Levent.
In: Journal of the Optical Society of America A: Optics Image Science and Vision, Vol. 29, No. 7, 01.07.2012, p. 1459-1469.
Research output: Contribution to journal › Article › Scientific › peer-review

Segregation of iron losses from rotational field measurements and application to electrical machine. / Belahcen, Anouar; Rasilo, Paavo; Arkkio, Antero.
In: IEEE Transactions on Magnetics, Vol. 50, No. 2, 7022104, 02.2014.
Research output: Contribution to journal › Article › Scientific › peer-review

Self-alignment in the stacking of microchips with mist-induced water droplets. / Chang, Bo; Sariola, Veikko; Jääskeläinen, Mirva; Zhou, Quan.
In: Journal of Micromechanics and Microengineering, Vol. 21, No. 1, 015016, 01.2011.

Research output: Contribution to journal › Article › Scientific › peer-review

Self-alignment of RFID dies on four-pad patterns with water droplet for sparse self-assembly. / Chang, Bo; Routa, Iiris; Sariola, Veikko; Zhou, Quan.

In: Journal of Micromechanics and Microengineering, Vol. 21, No. 9, 095024, 09.2011.

Research output: Contribution to journal › Article › Scientific › peer-review

Self-orienting liquid crystal doped with polymer-azo-dye complex. / Ouskova, Elena; Vapaavuori, Jaana; Kaivola, Matti.

In: Optical Materials Express, Vol. 1, No. 8, 01.12.2011, p. 1463-1470.

Research output: Contribution to journal › Article › Scientific › peer-review

Semantics of HTS AC Loss Modeling : Theories, Models, and Experiments. / Lahtinen, Valtteri; Stenvall, Antti.

In: IEEE Transactions on Applied Superconductivity, Vol. 30, No. 5, 5900809, 01.08.2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Sensitivity Analysis of Inverse Thermal Modeling to Determine Power Losses in Electrical Machines. / Nair, Devi Geetha; Rasilo, Paavo; Arkkio, Antero.

In: IEEE Transactions on Magnetics, Vol. 54, No. 11, 8109405, 11.2018.

Research output: Contribution to journal › Article › Scientific › peer-review

Silver sulfide nanoclusters and the superatom model. / Goh, Jing-Qiang; Malola, Sami; Häkkinen, Hannu; Akola, Jaakko.

In: Journal of Physical Chemistry C, Vol. 119, No. 3, 22.01.2015, p. 1583-1590.

Research output: Contribution to journal › Article › Scientific › peer-review

Simulation of cluster growth using a lattice gas model. / Valkealahti, S.; Manninen, M.

In: Physical Review B, Vol. 50, No. 23, 01.01.1994, p. 17564-17574.

Research output: Contribution to journal › Article › Scientific › peer-review

Simulation studies of DFB laser longitudinal structures for narrow linewidth emission. / Virtanen, Heikki; Uusitalo, Topi; Dumitrescu, Mihail.

In: Optical and Quantum Electronics, Vol. 49, No. 4, 160, 23.03.2017.

Research output: Contribution to journal › Article › Scientific › peer-review

Single-source multibattery solar charger : Case study and implementation issues. / Gadelovits, Shlomo; Sitbon, Moshe; Suntio, Teuvo; Kuperman, Alon.

In: Progress in Photovoltaics: Research and Applications, Vol. 23, No. 12, 25.11.2015, p. 1916-1928.

Research output: Contribution to journal › Article › Scientific › peer-review

Soft graphoepitaxy for large area directed self-assembly of polystyrene-block-poly(dimethylsiloxane) block copolymer on nanopatterned substrates fabricated by nanoimprint lithography. / Borah, Dipu; Rasappa, Sozaraj; Salaun, Mathieu; Zellsman, Marc; Lorret, Olivier; Lontos, George; Ntetsikas, Konstantinos; Avgeropoulos, Apostolos; Morris, Michael A.

In: Advanced Functional Materials, Vol. 25, No. 22, 01.06.2015, p. 3425-3432.

Research output: Contribution to journal › Article › Scientific › peer-review

Solar Irradiation Independent Expression for Photovoltaic Generator Maximum Power Line. / Kolesnik, Sergei; Sitbon, Moshe; Lineykin, Simon; Batzelis, Efstratios; Papathanassiou, Stavros; Suntio, Teuvo; Kuperman, Alon.

In: IEEE Journal of Photovoltaics, Vol. 7, No. 5, 2017, p. 1416-1420.

Research output: Contribution to journal › Article › Scientific › peer-review

Soliton enhancement of spontaneous symmetry breaking. / Alberucci, Alessandro; Piccardi, Armando; Kravets, Nina; Buchnev, Oleksandr; Assanto, Gaetano.

In: Optica, Vol. 2, No. 9, 2015, p. 783-789.

Research output: Contribution to journal › Article › Scientific › peer-review

Stable blue phase polymeric Langmuir-Schaefer films based on unsymmetrical hydroxyalkadiynyl N-arylcarbamate derivatives. / Alekseev, Alexander; Ihalainen, Petri; Ivanov, Artem; Domnin, Ivan; Rosqvist, Emil; Lemmetyinen, Helge; Vuorimaa-Laukkanen, Elina; Peltonen, Jouko; Vyaz'min, Sergey.
In: Thin Solid Films, Vol. 645, 2018, p. 108-118.

Research output: Contribution to journal › Article › Scientific › peer-review

Statistical analysis of E-jet print parameter effects on Ag-nanoparticle ink droplet size. / Laurila, M. M.; Khorramdel, B.; Dastpak, A.; Mäntysalo, M.

In: Journal of Micromechanics and Microengineering, Vol. 27, No. 9, 095005, 02.08.2017.

Research output: Contribution to journal › Article › Scientific › peer-review

Status of the Demonstrator Magnets for the EuCARD-2 Future Magnets Project. / Kirby, G.; Rossi, L.; Badel, A.; Bajko, M.; Ballarino, A.; Bottura, L.; Dhalle, 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.

In: IEEE Transactions on Applied Superconductivity, Vol. 26, No. 3, 4003307, 01.04.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels. / Stumpel, Jelle E.; Gil, Elda Renedo; Spoelstra, Anne B.; Bastiaansen, Cees W M; Broer, Dirk J.; Schenning, Albertus P H J.

In: Advanced Functional Materials, Vol. 25, No. 22, 2015, p. 3314-3320.

Research output: Contribution to journal › Article › Scientific › peer-review

Strand and cable R&D for fast cycled magnets at CERN. / Bottura, L.; Bonasia, A.; Borgnolutti, F.; Gaertner, W.; Le Naour, S.; Oberli, L.; Peiro, G.; Richter, D.; Salmi, T.; Sikler, G.; Willering, G.

In: IEEE Transactions on Applied Superconductivity, Vol. 21, No. 3 PART 2, 06.2011, p. 2354-2358.

Research output: Contribution to journal › Article › Scientific › peer-review

Structural and Electrical Characterization of Solution-Processed Electrodes for Piezoelectric Polymer Film Sensors. / Rajala, S.; Mettänen, M.; Tuukkanen, S.

In: IEEE Sensors Journal, Vol. 16, No. 6, 15.03.2016, p. 1692-1699.

Research output: Contribution to journal › Article › Scientific › peer-review

Structure and in vitro dissolution of Mg and Sr containing borosilicate bioactive glasses for bone tissue engineering. /

Tainio, J. M.; Salazar, D. A. Avila; Nommeots-Nomm, A.; Roiland, C.; Bureau, B.; Neuville, D. R.; Brauer, D. S.; Massera, J.

In: Journal of Non-Crystalline Solids, Vol. 533, 119893, 01.04.2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Study of quench protection for the Nb₃Sn low-β quadrupole for the LHC luminosity upgrade (HiLumi-LHC). / Marinozzi, Vittorio; Ambrosio, Giorgio; Bellomo, Giovanni; Chlachidze, Guram; Felice, Helene; Marchevsky, Maxim; Salmi, Tiina; Sorbi, Massimo; Todesco, Ezio.

In: IEEE Transactions on Applied Superconductivity, Vol. 25, No. 3, 4002905, 01.06.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

Sub-100 ps monolithic diamond Raman laser emitting at 573 nm. / Nikkinen, Jari; Savitski, Vasili; Reilly, Sean; Dziechciarzyk, Lukasz; Härkönen, Antti; Kemp, Alan; Guina, Mircea.

In: IEEE Photonics Technology Letters, Vol. 30, No. 11, 2018, p. 981-984.

Research output: Contribution to journal › Article › Scientific › peer-review

Sub-microwatt direct laser writing of fluorescent gold nanoclusters in polymer films. / Bitarafan, Mohammad H.; Suomala, Sofia; Toivonen, Juha.

In: Optical Materials Express, Vol. 10, No. 1, 2020, p. 138-148.

Research output: Contribution to journal › Article › Scientific › peer-review

Suitability of bundle approximation in AC loss analysis of NbTi wires : Simulations and experiment. / Lyly, M.; Krooshoop, E.; Lübke, R.; Wessel, S.; Stenvall, A.; Dhalle, M.; Mikkonen, R.

In: IEEE Transactions on Applied Superconductivity, Vol. 25, No. 3, 01.06.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

Suitability of Different Quench Protection Methods for a 16 T Block-Type Nb₃Sn Accelerator Dipole Magnet. / Salmi, Tiina; Prioli, Marco; Stenvall, Antti; Ruuskanen, Janne; Verweij, Arjan P.; Auchmann, Bernhard; Marinozzi, Vittorio.

In: IEEE Transactions on Applied Superconductivity, Vol. 27, No. 4, 4702305, 01.06.2017.

Research output: Contribution to journal › Article › Scientific › peer-review

Superatom Model for Ag-S Nanocluster with Delocalized Electrons. / Goh, Jing Qiang; Akola, Jaakko.

In: Journal of Physical Chemistry C, Vol. 119, No. 36, 10.09.2015, p. 21165-21172.

Research output: Contribution to journal › Article › Scientific › peer-review

Supercontinuum generation as a signal amplifier. / Orsila, Lasse; Sand, Johan; Närhi, Mikko; Genty, Goëry; Steinmeyer, Günter.

In: Optica, Vol. 2, No. 8, 2015, p. 757-764.

Research output: Contribution to journal › Article › Scientific › peer-review

Superfluid weight and Berezinskii-Kosterlitz-Thouless transition temperature of twisted bilayer graphene. / Julku, A.;

Peltonen, T. J.; Liang, L.; Heikkilä, T. T.; Törmä, P.

In: Physical Review B, Vol. 101, No. 6, 060505, 01.02.2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Surface-induced charge state conversion of nitrogen-vacancy defects in nanodiamonds. / Rondin, L.; Dantelle, G.;

Slablab, A.; Grosshans, F.; Treussart, F.; Bergonzo, P.; Perruchas, S.; Gacoin, T.; Chaigneau, M.; Chang, H. C.; Jacques, V.; Roch, J. F.

In: Physical Review B, Vol. 82, No. 11, 115449, 28.09.2010.

Research output: Contribution to journal › Article › Scientific › peer-review

Surface-relief gratings and stable birefringence inscribed using light of broad spectral range in supramolecular polymer-bisazobenzene complexes. / Koskela, Jenni E.; Vapaavuori, Jaana; Hautala, Juho; Priimagi, Arri; Faul, Charl F J; Kaivola, Matti; Ras, Robin H A.

In: Journal of Physical Chemistry C, Vol. 116, No. 3, 26.01.2012, p. 2363-2370.

Research output: Contribution to journal › Article › Scientific › peer-review

Symmetry-broken electronic structure and uniaxial Fermi surface nesting of untwinned CaFe₂As₂. / Wang, Q.; Sun, Z.;

Rotenberg, E.; Ronning, F.; Bauer, E. D.; Lin, H.; Markiewicz, R. S.; Lindroos, M.; Barbiellini, B.; Bansil, A.; Dessau, D. S.

In: Physical Review B, Vol. 88, No. 23, 235125, 26.12.2013.

Research output: Contribution to journal › Article › Scientific › peer-review

Temporal ghost imaging using wavelength conversion and two-color detection. / Wu, Han; Ryczkowski, Piotr; Friberg, Ari T.; Dudley, John M.; Genty, Goëry.

In: Optica, Vol. 6, No. 7, 20.07.2019, p. 902-906.

Research output: Contribution to journal › Article › Scientific › peer-review

Test results of the LARP HQ02b magnet at 1.9 K. / Bajas, H.; Ambrosio, G.; Anerella, M.; Bajko, M.; Bossert, R.; Bottura, L.; Caspi, S.; Cheng, D.; Chiuchiolo, A.; Chlachidze, G.; Dietderich, D.; Felice, H.; Ferracin, P.; Feuvrier, J.; Ghosh, A.; Giloux, C.; Godeke, A.; Hafalia, A. R.; Marchevsky, M.; Ravaioli, E.; Sabbi, G. L.; Salmi, T.; Schmalzle, J.; Todesco, E.; Wanderer, P.; Wang, X.; Yu, M.

In: IEEE Transactions on Applied Superconductivity, Vol. 25, No. 3, 4003306, 01.06.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

Test Results of the LARP Nb₃Sn Quadrupole HQ03a. / 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, A. R.; Marchevsky, M.; Orris, D.; Ravaioli, E.; Sabbi, G.; Salmi, T.; Schmalzle, J.; Stoynev, S.; Strauss, T.; Sylvestre, C.; Tartaglia, M.; Todesco, E.; Wanderer, P.; Wang, X.; Yu, M.

In: IEEE Transactions on Applied Superconductivity, Vol. 26, No. 4, 4005105, 01.06.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

The 16 T Dipole Development Program for FCC. / Tommasini, Davide; Auchmann, B.; Bajas, Hugues; Bajko, Marta; Ballarino, Amalia; Bellomo, Giovanni; Benedikt, Michael; Bermudez, Susana Izquierdo; Bordini, Bernardo; Bottura, Luca; Buzio, Marco; Dhalle, Marc; Durante, Maria; De Rijk, Gijs; Fabbricatore, Pasquale; Farinon, Stefania; Ferracin, Paolo; Gao, Peng; Lackner, Friedrich; Lorin, Clement; Marinozzi, Vittorio; Martinez, Teresa; Munilla, J.; Ogitsu, Toru; Ortwein, Rafal; Perez, Juan; Prioli, M.; Rifflet, Jean Michel; Rochepault, Etienne; Russenschuck, Stephan; Salmi, Tiina; Savary, Frederic; Schoerling, Daniel; Segreti, Michel; Senatore, Carmine; Sorbi, Massimo; Stenvall, Antti; Todesco, Ezio; Toral, Fernando; Verweij, Arjan P.; Volpini, Giovanni; Wessel, Sander; Wolf, Felix.

In: IEEE Transactions on Applied Superconductivity, Vol. 27, No. 4, 4000405, 01.06.2017.

Research output: Contribution to journal > Article > Scientific > peer-review

The effect of carbon and nickel additions on the precursor synthesis of Cr₃C₂-Ni nanopowder. / Kaunisto, Kimmo; Kotilainen, Minna; Karhu, Marjaana; Lagerbom, Juha; Vuorinen, Tommi; Honkanen, Mari; Vippola, Minnamari; Turunen, Erja.

In: Ceramics International, Vol. 44, No. 8, 01.06.2018, p. 9338-9346.

Research output: Contribution to journal > Article > Scientific > peer-review

The effects of laser patterning 10CeTZP-Al₂O₃ nanocomposite disc surfaces : Osseous differentiation and cellular arrangement in vitro. / Goyos-Ball, Lidia; Prádo, Catuxa; Díaz, Raquel; Fernández, Elisa; Ismailov, Arnold; Kumpulainen, Tero; Levänen, Erkki; Torrecillas, Ramón; Fernández, Adolfo.

In: Ceramics International, Vol. 44, No. 8, 06.2018, p. 9472-9478.

Research output: Contribution to journal > Article > Scientific > peer-review

The EuCARD-2 future magnets European collaboration for accelerator-quality HTS magnets. / Rossi, L.; Badel, A.; Bajko, M.; Ballarino, A.; Bottura, L.; Dhallé, M. M J; Durante, M.; Fazilleau, Ph; 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.

In: IEEE Transactions on Applied Superconductivity, Vol. 25, No. 3, 4001007, 01.06.2015.

Research output: Contribution to journal > Article > Scientific > peer-review

The EuCARD2 Future Magnets Program for particle accelerator high field dipoles : review of results and next steps. / Rossi, Lucio; Badel, Arnaud; Bajas, Hugues; Bajko, Marta; Ballarino, Amalia; Barth, Christian; Betz, Ulrich; Bottura, Luca; Broggi, Francesco; Chiuchiolo, Antonella; Dhalle, Marc; Durante, Maria; Fazilleau, Philippe; Fleiter, J.; Gao, Peng; Goldacker, Wilfried; Kario, Anna; Kirby, Glyn; Lorin, Clement; Murtomaeki, Jaakko Samuel; van Nugteren, Jeroen; Petrone, Carlo; DeRijk, Gijs; Senatore, Carmine; Statera, Marco; Stenvall, Antti; Tixador, Pascal; Yang, Yifeng; Usoskin, Alexander; Zangenberg, Nikolaj.

In: IEEE Transactions on Applied Superconductivity, Vol. 28, No. 3, 04.2018.

Research output: Contribution to journal > Article > Scientific > peer-review

The Impact of Protection Heater Delays Distribution on the Hotspot Temperature in a High-Field Accelerator Magnet. / Salmi, T.; Stenvall, A.

In: IEEE Transactions on Applied Superconductivity, Vol. 26, No. 4, 4001405, 01.06.2016.

Research output: Contribution to journal > Article > Scientific > peer-review

Theoretical studies of structural properties of the high-T_c superconductor Y₁Ba₂Cu₃O_{7-x}. / Valkealahti, Seppo; Welch, David O.

In: Physica C: Superconductivity and its Applications, Vol. 162-164, No. PART 1, 01.01.1989, p. 540-541.

Research output: Contribution to journal > Article > Scientific > peer-review

The red, purple and blue modifications of polymeric unsymmetrical hydroxyalkadiynyl-N-arylcarbamate derivatives in Langmuir-Schaefer films. / Alekseev, Alexander; Ihalainen, Petri; Ivanov, Artem; Domnin, Ivan; Klechkovskaya, Vera; Orekhov, Anton; Lemmetyinen, Helge; Vuorimaa-Laukkanen, Elina; Peltonen, Jouko; Vyaz'min, Sergey.

In: Thin Solid Films, Vol. 612, 01.08.2016, p. 463-471.

Research output: Contribution to journal > Article > Scientific > peer-review

Thermal effects on the Wigner localization and Friedel oscillations in many-electron nanowires. / Kylänpää, I.; Cavaliere, F.; Ziani, N. Traverso; Sasseti, M.; Räsänen, E.

In: Physical Review B, Vol. 94, No. 11, 115417, 13.09.2016.

Thermal evaporation of Ge on Si for near infrared detectors : Material and device characterization. / Sorianello, V.; Colace, L.; Assanto, G.; Notargiacomo, A.; Armani, N.; Rossi, F.; Ferrari, C.
In: *Microelectronic Engineering*, Vol. 88, No. 4, 04.2011, p. 526-529.

Research output: Contribution to journal › Article › Scientific › peer-review

Thermally evaporated single-crystal Germanium on Silicon. / Sorianello, V.; Colace, L.; Nardone, M.; Assanto, G.
In: *Thin Solid Films*, Vol. 519, No. 22, 01.09.2011, p. 8037-8040.

Research output: Contribution to journal › Article › Scientific › peer-review

Thermal, structural and optical properties of Er³⁺ doped phosphate glasses containing silver nanoparticles. / Soltani, I.; Hraiech, S.; Horchani-Naifer, K.; Massera, J.; Petit, L.; Férid, M.
In: *Journal of Non-Crystalline Solids*, Vol. 438, 15.04.2016, p. 67-73.

Research output: Contribution to journal › Article › Scientific › peer-review

The sensitivity of random polymer brush-lamellar polystyrene-b-polymethylmethacrylate block copolymer systems to process conditions. / Borah, Dipu; Rasappa, Sozaraj; Senthamarai Kannan, Ramsankar; Shaw, Matthew T.; Holmes, Justin D.; Morris, Michael A.

In: *Journal of Colloid and Interface Science*, Vol. 393, No. 1, 01.03.2013, p. 192-202.

Research output: Contribution to journal › Article › Scientific › peer-review

Third order nonlinear optical response of TTF-based molecular corners. / Iliopoulos, Konstantinos; Czaplicki, Robert; Ouazzani, Hasnaa El; Balandier, Jean-Yves; Chas, Marcos; Goeb, Sébastien; Sallé, Marc; Gindre, Denis; Sahraoui, Bouchta.

In: *Nonlinear Optics, Quantum Optics*, Vol. 43, No. 1-4, 2012, p. 205-212.

Research output: Contribution to journal › Article › Scientific › peer-review

Three-color vector nematicon. / Laudyn, Urszula A.; Kwaśny, Michał; Karpierz, Mirosław A.; Assanto, Gaetano.

In: *Photonics Letters of Poland*, Vol. 9, No. 2, 2017, p. 36-38.

Research output: Contribution to journal › Article › Scientific › peer-review

Towards REBCO 20T+ Dipoles for Accelerators. / van Nugteren, Jeroen; Kirby, Glyn; Murtomaki, Jaakko; DeRijk, Gijs; Rossi, Lucio; Stenvall, Antti.

In: *IEEE Transactions on Applied Superconductivity*, Vol. 28, No. 4, 4008509, 06.2018.

Research output: Contribution to journal › Article › Scientific › peer-review

Towards universal enrichment nanocoating for IR-ATR waveguides. / Giammarco, James; Zdyrko, Bogdan; Petit, Laetitia; Musgraves, J. David; Hu, Juejun; Agarwal, Anu; Kimerling, Lionel; Richardson, Kathleen; Luzinov, Igor.

In: *Chemical Communications*, Vol. 47, No. 32, 28.08.2011, p. 9104-9106.

Research output: Contribution to journal › Article › Scientific › peer-review

Transmission, refraction, and focusing properties of labyrinth based left-handed metamaterials. / Özbay, Ekmel; Bulu, Irfan; Caglayan, Humeyra.

In: *Physica Status Solidi (B) Basic Research*, Vol. 244, No. 4, 04.2007, p. 1202-1210.

Research output: Contribution to journal › Article › Scientific › peer-review

Transparent Yb³⁺ doped phosphate glass-ceramics. / Hongisto, M.; Veber, A.; Boetti, N. G.; Danto, S.; Jubera, V.; Petit, L.

In: *Ceramics International*, 01.01.2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Transverse deformation of a lamellar TiAl alloy at high temperature by in situ microcompression. / Edwards, Thomas Edward James; Di Gioacchino, Fabio; Goodfellow, Amy Jane; Mohanty, Gaurav; Wehrs, Juri; Michler, Johann; Clegg, William John.

In: *Acta Materialia*, Vol. 166, 01.03.2019, p. 85-99.

Research output: Contribution to journal › Article › Scientific › peer-review

Tuneable topological domain wall states in engineered atomic chains. / Huda, Md Nurul; Kezilebieke, Shawulienu; Ojanen, Teemu; Drost, Robert; Liljeroth, Peter.

In: npj Quantum Materials, Vol. 5, No. 1, 17, 2020.

Research output: Contribution to journal › Article › Scientific › peer-review

Tuning electronic properties of graphene heterostructures by amorphous-to-crystalline phase transitions. / Kulju, S.; Akola, J.; Prendergast, D.; Jones, R. O.

In: Physical Review B, Vol. 93, No. 19, 195443, 31.05.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Two cations, two mechanisms : Interactions of sodium and calcium with zwitterionic lipid membranes. / Javanainen, Matti; Melcrová, Adéla; Magarkar, Aniket; Jurkiewicz, Piotr; Hof, Martin; Jungwirth, Pavel; Martinez-Seara, Hector.

In: Chemical Communications, Vol. 53, No. 39, 2017, p. 5380-5383.

Research output: Contribution to journal › Article › Scientific › peer-review

Two-time coherence of pulse trains and the integrated degree of temporal coherence. / Dutta, Rahul; Friberg, Ari T.; Genty, Goery; Turunen, Jari.

In: Journal of the Optical Society of America A: Optics Image Science and Vision, Vol. 32, No. 9, 2015, p. 1631-1637.

Research output: Contribution to journal › Article › Scientific › peer-review

Ultrahigh-pressure form of Si O₂ glass with dense pyrite-type crystalline homology. / 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, A. S.; Idemoto, Y.; Sakata, O.; Ohishi, Y.

In: Physical Review B, Vol. 99, No. 4, 045153, 29.01.2019.

Research output: Contribution to journal › Article › Scientific › peer-review

Unveiling and controlling the electronic structure of oxidized semiconductor surfaces: Crystalline oxidized InSb(100)(1 × 2)-O : Crystalline oxidized InSb(100)(1 × 2)-O. / Lång, J. J K; Punkkinen, M. P J; Tuominen, M.; Hedman, H. P.; Vähä-Heikkilä, M.; Polojärvi, V.; Salmi, J.; Korpijärvi, V. M.; Schulte, K.; Kuzmin, M.; Punkkinen, R.; Laukkanen, P.; Guina, M.; Kokko, Kalevi.

In: Physical Review B, Vol. 90, No. 4, 045312, 29.07.2014, p. 1-9.

Research output: Contribution to journal › Article › Scientific › peer-review

Utilizing triangular mesh with MMEV to study hysteresis losses of round superconductors obeying critical state model. / Ruuskanen, Janne; Stenvall, Antti; Lahtinen, Valtteri.

In: IEEE Transactions on Applied Superconductivity, Vol. 25, No. 3, 8200405, 01.06.2015.

Research output: Contribution to journal › Article › Scientific › peer-review

Very high dose electron irradiation effects on photoluminescence from GaInNAs/GaAs quantum wells grown by molecular beam epitaxy. / Pavelescu, E. M.; Bălăţeanu, N.; Spănulescu, S. I.; Arola, E.

In: Optical Materials, Vol. 64, 01.02.2017, p. 361-365.

Research output: Contribution to journal › Article › Scientific › peer-review

Vortex stabilization by means of spatial solitons in nonlocal media. / Izdebskaya, Yana; Krolikowski, Wieslaw; Smyth, Noel F.; Assanto, Gaetano.

In: Journal of Optics, Vol. 18, No. 5, 054006, 01.05.2016.

Research output: Contribution to journal › Article › Scientific › peer-review

Wetting hysteresis induced by temperature changes : Supercooled water on hydrophobic surfaces. / Heydari, Golrokh; Sedighi Moghaddam, Maziar; Tuominen, Mikko; Fielden, Matthew; Haapanen, Janne; Mäkelä, Jyrki M.; Claesson, Per M.

In: Journal of Colloid and Interface Science, Vol. 468, 15.04.2016, p. 21-33.

Research output: Contribution to journal › Article › Scientific › peer-review

Toward Graphene-Based Passive UHF RFID Textile Tags : A Reliability Study. / Akbari, M.; Virkki, J.; Sydänheimo, L.; Ukkonen, L.
In: IEEE Transactions on Device and Materials Reliability, Vol. 16, No. 3, 01.09.2016, p. 429-431.
Research output: Contribution to journal › Letter › Scientific › peer-review

Nonlinear optics applications : In memory of George I. Stegeman. / Assanto, Gaetano.
In: Photonics Letters of Poland, Vol. 8, No. 1, 2016, p. 1.
Research output: Contribution to journal › Editorial › Scientific

Novel optical and photonic devices based on 2D materials : Feature issue introduction. / Luo, Zhengqian; Bao, Qiaoliang; Caglayan, Humejra; Jia, Baohua; Zhang, Han.
In: Optical Materials Express, Vol. 10, No. 6, 2020, p. 1344-1345.
Research output: Contribution to journal › Editorial › Scientific

Special Issue: Mid-infrared optical materials and their device applications. / Hu, Juejun (Editor); Mawst, Luke (Editor); Moss, Steven (Editor); Petit, Laetitia (Editor); Ting, David (Editor).
In: Optical Materials Express, Vol. 8, No. 7, 2018.
Research output: Contribution to journal › Special issue › Scientific › peer-review

Special Issue: Novel Optical and Photonic Devices based on 2D Materials. / Luo, Zhengqian (Editor); Bao, Qiaoliang (Editor); Caglayan, Humejra (Editor); Jia, Baohua (Editor); Zhang, Han (Editor).
In: Optical Materials Express, Vol. 10, No. 6, 2020.
Research output: Contribution to journal › Special issue › Scientific › peer-review

Coherence of Supercontinuum Light. / Genty, Goëry; Friberg, Ari T.; Turunen, Jari.
Progress in Optics. Vol. 61 Elsevier, 2016. (Progress in Optics).
Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

1180nm VECSEL with 50 W output power. / Kantola, Emmi; Leinonen, Tomi; Ranta, Sanna; Tavast, Miki; Penttinen, Jussi-Pekka; Guina, Mircea.
Proceedings of SPIE - The International Society for Optical Engineering. Vol. 9349 SPIE, 2015. 93490U.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

13.5 A 0.35-to-2.6GHz multilevel outphasing transmitter with a digital interpolating phase modulator enabling up to 400MHz instantaneous bandwidth. / Kosunen, Marko; Lemberg, Jerry; Martelius, Mikko; Roverato, Enrico; Nieminen, Tero; Englund, Mikko; Stadius, Kari; Anttila, Lauri; Pallonen, Jorma; Valkama, Mikko; Ryyänänen, Jussi.
2017 IEEE International Solid-State Circuits Conference, ISSCC 2017. IEEE, 2017. p. 224-225.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

1.3µm U-bend traveling wave SOA devices for high efficiency coupling to silicon photonics. / Viheriälä, Jukka; Tuorila, Heidi; Zia, Nouman; Cherchi, Matteo; Aalto, Timo; Guina, Mircea.
Silicon Photonics XIV. ed. / Graham T. Reed; Andrew P. Knights. SPIE, IEEE, 2019. 109230E (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 10923).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

1.55-µm wavelength wafer-fused OP-VECSELs in flip-chip configuration. / Mereuta, Alexandru; Nechay, Kostiantyn; Caliman, Andrei; Suruceanu, Grigore; Gallo, Pascal; Guina, Mircea; Kapon, Eli.
Vertical External Cavity Surface Emitting Lasers (VECSELs) IX. ed. / Ursula Keller. SPIE, IEEE, 2019. 1090103 (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 10901).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

2-volt Solution-Processed, Indium Oxide (In₂O₃) Thin Film Transistors on flexible Kapton. / Bhalerao, Sagar R.; Lupo, Donald; Berger, Paul R.
2019 IEEE International Flexible Electronics Technology Conference, IFETC 2019. IEEE, 2019.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

405-nm pumped Ce³⁺-doped silica fiber for broadband fluorescence from cyan to red. / Yadav, Amit; Chichkov, Nikolay B.; Gumenyuk, Regina; Zherebtsov, Evgeny; Melkumov, Mikhail A.; Yashkov, Mikhail V.; Dianov, Evgeny M.; Rafailov, Edik U.

Optical Components and Materials XVI. ed. / Michel J. F. Digonnet; Shubin Jiang. SPIE, IEEE, 2019. 1091406 (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 10914).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

73-fs SESAM mode-locked Tm,Ho:CNGG laser at 2061 nm. / Wang, Yicheng; Zhao, Yongguang; Pan, Zhongben; Suomalainen, Soile; Härkönen, Antti; Guina, Mircea; Griebner, Uwe; Wang, Li; Loiko, Pavel; Mateos, Xavier; Chen, Weidong; Petrov, Valentin.

Solid State Lasers XXIX: Technology and Devices. ed. / W. Andrew Clarkson; Ramesh K. Shori. SPIE, 2020. 1125929 (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 11259).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Action recognition using the 3D dense microblock difference. / Voronin, V.; Pismenskova, M.; Zelensky, A.; Cen, Yigang; Nadykto, A.; Egiazarian, K.

Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II. SPIE, 2018. 1080200 (Proceedings of SPIE; Vol. 10802).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Advancements in Solution Processable Devices using Metal Oxides For Printed Internet-of-Things Objects. / Berger, Paul R.; Li, Miao; Mattei, Ryan M.; Niang, Maimouna A.; Talisa, Noah; Tripepi, Michael; Harris, Brandon; Bhalerao, Sagar R.; Chowdhury, Enam A.; Winter, Charles H.; Lupo, Donald.

2019 Electron Devices Technology and Manufacturing Conference, EDTM 2019. IEEE, 2019. p. 160-162.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Advances in implantable and wearable antennas for wireless brain-machine interface systems. / Moradi, Elham; Koski, Karoliina; Björninen, Toni; Muller, Rikky; Ledochowitsch, Peter; Sydänheimo, Lauri; Alon, Elad; Maharbiz, Michel M.; Rabaey, Jan M.; Ukkonen, Leena; Rahmat-Samii, Yahya.

2014 United States National Committee of URSI National Radio Science Meeting, USNC-URSI NRSM 2014. Institute of Electrical and Electronics Engineers Inc., 2014. 6928137.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A genetic algorithm for scheduling tasks onto dynamically reconfigurable hardware. / Qu, Yang; Soininen, Juha Pekka; Nurmi, Jari.

2007 IEEE International Symposium on Circuits and Systems. 2007. p. 161-164.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A hand-held immaterial volumetric display. / Sand, Antti; Rakkolainen, Ismo.

Proceedings of SPIE-IS and T Electronic Imaging - Stereoscopic Displays and Applications XXV. Vol. 9011 SPIE, 2014. 90110Q.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

All-fiber, high-power, picosecond Yb double clad tapered fiber amplifier. / Gumenyuk, R.; Filippov, V.; Vorotinskii, A.; Okhotnikov, O. G.; Chamorovskii, Yu; Golant, K.

Proceedings - 2014 International Conference Laser Optics, LO 2014. IEEE, 2014. 6886471.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Alpha radiation induced luminescence in solar blind spectral region. / Kerst, Thomas; Toivonen, Juha.

CLEO: Applications and Technology, CLEO_AT 2018. OSA - The Optical Society, 2018.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A membrane external-cavity surface-emitting laser (MECSEL) with emission around 825 nm. / Phung, Hoy My; Kahle, Hermann; Penttinen, Jussi-Pekka; Rajala, Patrik; Ranta, Sanna; Guina, Mircea.

Vertical External Cavity Surface Emitting Lasers (VECSELs) X. ed. / Jennifer E. Hastie. SPIE, 2020. 112630H (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 11263).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A method for predicting DCT-based denoising efficiency for grayscale images corrupted by AWGN and additive spatially correlated noise. / Rubel, Aleksey S.; Lukin, Vladimir V.; Egiazarian, Karen.
Proceedings of SPIE - The International Society for Optical Engineering. Vol. 9399 SPIE, 2015. 93990P.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

A multi-band WCDMA SAW-less receivers with frequency selective feedback loop. / Beck, Sungho; Kim, Stephen T.; Lim, Kyutae; Tentzeris, Manos M.; Laskar, Joy.
54th IEEE International Midwest Symposium on Circuits and Systems, MWSCAS 2011. 2011. 6026387.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Anisotropic ultra-large mode area Yb-doped tapered double clad fiber for ultrafast amplifiers. / Filippov, Valery; Noronen, Teppo; Gumenyuk, Regina; Chamorovskii, Yuri; Golant, Konstantin; Odnoblyudov, Maxim.
Advanced Solid State Lasers 2017: Nagoya, Aichi Japan 1–5 October 2017. Vol. Part F75-ASSL 2017 The Optical Society; OSA, 2017. JTU2A.51.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

A novel 3-D printed loop antenna using flexible NinjaFlex material for wearable and IoT applications. / Nate, Kunal; Tentzeris, Manos M.
2015 IEEE 24th Conference on Electrical Performance of Electronic Packaging and Systems, EPEPS 2015. Institute of Electrical and Electronics Engineers Inc., 2015. p. 171-174 7347155.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

A novel strain sensor based on 3D printing technology and 3D antenna design. / Le, Taoran; Song, Bo; Liu, Qi; Bahr, Ryan A.; Moscato, Stefano; Wong, Ching Ping; Tentzeris, Manos M.
2015 IEEE 65th Electronic Components and Technology Conference, ECTC 2015. Vol. 2015-July Institute of Electrical and Electronics Engineers Inc., 2015. p. 981-986 7159714.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Antenna design considerations for far field and near field wireless body-centric systems. / Moradi, E.; Koski, K.; Hasani, M.; Rahmat-Samii, Y.; Ukkonen, L.
ICCEM 2015 - 2015 IEEE International Conference on Computational Electromagnetics. The Institute of Electrical and Electronics Engineers, Inc., 2015. p. 59-60 7052555.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

A perceptual quality metric for high-definition stereoscopic 3D video. / Battisti, F.; Carli, M.; Stramacci, A.; Boev, A.; Gotchev, A.
Image Processing: Algorithms and Systems XIII. SPIE, 2015. 939916 (SPIE Conference Proceedings; Vol. 9399).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Artificial intelligence yesterday, today and tomorrow. / Jaakkola, H.; Henno, J.; Mäkelä, J.; Thalheim, B.
2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings. ed. / Karolj Skala; Zeljka Car; Predrag Pale; Darko Huljenic; Matej Janjic; Marko Koricic; Vlado Sruk; Slobodan Ribaric; Tihana Galinac Grbac; Zeljko Butkovic; Marina Cicin-Sain; Dejan Skvorc; Mladen Mauher; Snjezana Babic; Stjepan Gros; Boris Vrdoljak; Edvard Tijan. IEEE, 2019. p. 860-867.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

ATM switch for 2.488 Gbit/s CATV network on FPGA with a high-throughput buffering architecture. / Kariniemi, H.; Nurmi, J.; Fagerlund, P.; Liitola, J.; Alinikula, J.
Midwest Symposium on Circuits and Systems. Vol. 2 2002.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

A Two-Stage LNA Design for 28GHz Band of 5G on 45nm CMOS. / Järvenhaara, J.; Filanovsky, I. M.; Nevalainen, I.; Tchamov, N. T.
2020 IEEE 63rd International Midwest Symposium on Circuits and Systems, MWSCAS 2020 - Proceedings. IEEE, 2020. p. 957-961 (Midwest Symposium on Circuits and Systems).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Back Reflector with Diffractive Gratings for Light-Trapping in Thin-Film III-V Solar Cells. / Aho, Timo; Tukiainen, Antti; Elsehrawy, Farid; Ranta, Sanna; Raappana, Marianna; Aho, Arto; Isoaho, Riku; Cappelluti, Federica; Guina, Mircea. 2019 European Space Power Conference (ESPC). IEEE, 2019.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Backscattering-based wireless communication and power transfer to small biomedical implants. / Ukkonen, Leena; Sydänheimo, Lauri; Ma, Shubin; Björninen, Toni.

Microfluidics, BioMEMS, and Medical Microsystems XVIII. ed. / Bonnie L. Gray; Holger Becker. SPIE, 2020. 112350A (Progress in Biomedical Optics and Imaging - Proceedings of SPIE; Vol. 11235).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Benchmarking of several disparity estimation algorithms for light field processing. / Zakeri, Faezeh Sadat; Bätz, Michel; Jaschke, Tobias; Keinert, Joachim; Chuchvara, Alexandra.

Fourteenth International Conference on Quality Control by Artificial Vision. ed. / Stephane Bazeille; Nicolas Verrier; Christophe Cudel. SPIE, IEEE, 2019. 111721C (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 11172).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Bistable optical propagation in nematic liquid crystals. / Piccardi, Armando; Alberucci, Alessandro; Kravets, Nina; Buchnev, Oleksander; Kaczmarek, Malgosia; Assanto, Gaetano.

Nonlinear Photonics, NP 2014. Optical Society of America OSA, 2014.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Combining full-reference image visual quality metrics by neural network. / Lukin, Vladimir V.; Ponomarenko, Nikolay N.; Ieremeiev, Oleg; Egiazarian, Karen; Astola, Jaakko.

Proceedings of SPIE - The International Society for Optical Engineering. Vol. 9394 SPIE, 2015. 93940K.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Complex-domain sparse imaging in terahertz pulse time-domain holography with balance detection. / Kulya, Maksim S.; Katkovnik, Vladimir; Egiazarian, Karen; Petrov, Nikolay V.

Terahertz, RF, Millimeter, and Submillimeter-Wave Technology and Applications XIII. ed. / Laurence P. Sadwick; Tianxin Yang. SPIE, 2020. 1127921 (Proceedings of SPIE; Vol. 11279).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Compressive strain measurement using RFID patch antenna sensors. / Cho, Chunhee; Yi, Xiaohua; Wang, Yang; Tentzeris, Manos M.; Leon, Roberto T.

Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2014. Vol. 9061 SPIE, 2014. 90610X.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Computational wavelength resolution for in-line lensless holography : Phase-coded diffraction patterns and wavefront group-sparsity. / Katkovnik, Vladimir; Shevkunov, Igor; Petrov, Nikolay V.; Egiazarian, Karen.

Digital Optical Technologies 2017. SPIE, 2017. 1033509 (Proceedings of SPIE; Vol. 10335).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Continuous-wave, cascaded raman laser at 1.3, 1.5, and 1.7 μm . / Casula, Riccardo; Penttinen, Jussi Pekka; Guina, Mircea; Kemp, Alan J.; Hastie, Jennifer E.

The European Conference on Lasers and Electro-Optics, CLEO_Europe 2017. OSA - The Optical Society, 2017. (Optics InfoBase Conference Papers; Vol. Part F82-CLEO_Europe 2017).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Continuous-wave optical parametric oscillators for mid-infrared spectroscopy. / Vainio, Markku.

Nonlinear Frequency Generation and Conversion: Materials and Devices XIX. ed. / Peter G. Schunemann; Kenneth L. Schepler. SPIE, 2020. 1126419 (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 11264).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Cyclic quantum walks : Photonic realization and decoherence analysis. / Nejdassattari, F.; Zhang, Y.; Jayakody, M. N.; Bouchard, F.; Larocque, H.; Sit, A.; Fickler, R.; Cohen, E.; Karimi, E.
Advanced Optical Techniques for Quantum Information, Sensing, and Metrology. ed. / Philip R. Hemmer; Alan L. Migdall; Zameer Ul Hasan. SPIE, 2020. 1129503 (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 11295).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Depth map occlusion filling and scene reconstruction using modified exemplar-based inpainting. / Voronin, V. V.; Marchuk, V. I.; Fisunov, A. V.; Tokareva, S. V.; Egiazarian, K. O.

Image Processing: Algorithms and Systems XIII. SPIE, 2015. 93990S (SPIE Conference Proceedings; Vol. 9399).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Design and simulation of a slotted patch antenna sensor for wireless strain sensing. / Yi, Xiaohua; Cho, Chunhee; Cook, Benjamin; Wang, Yang; Tentzeris, Manos M.; Leon, Roberto T.

Nondestructive Characterization for Composite Materials, Aerospace Engineering, Civil Infrastructure, and Homeland Security 2013. Vol. 8694 2013. 86941J.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Design, Fabrication, and Wireless Evaluation of a Passive 3D-printed Moisture Sensor on a Textile Substrate. / Chen, Xiaochen; He, Han; Khan, Zahangir; Sydänheimo, Lauri; Ukkonen, Leena; Virkki, Johanna.

2019 Photonics and Electromagnetics Research Symposium - Spring, PIERS-Spring 2019 - Proceedings. IEEE, 2019. p. 1027-1030 9017301 (Progress in Electromagnetics Research Symposium; Vol. 2019-June).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Development of dust test method for motor drives. / Pippola, Juha; Marttila, Tuomas; Frisk, Laura.

2017 IMAPS Nordic Conference on Microelectronics Packaging, NordPac 2017. IEEE, 2017. p. 43-46.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Development of efficient electrically pumped nanolasers based on InAlGaAs tunnel junction. / Fang, Cheng Yi; Vallini, Felipe; Amili, Abdelkrim El; Tukiainen, Antti; Lyytikäinen, Jari; Guina, Mircea; Fainman, Yashaiahu.

CLEO: Science and Innovations, CLEO_SI 2018. OSA - The Optical Society, 2018.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Dilute nitride SOAs for high-speed data processing in variable temperature conditions. / Giannoulis, G.; Korpijärvi, V. M.; Iliadis, N.; Mäkelä, J.; Viheriälä, J.; Apostolopoulos, D.; Guina, M.; Avramopoulos, H.

Optical Fiber Communication Conference, OFC 2015. OSA - The Optical Society, 2015.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Directional random laser by combining cavity-less lasing and spatial solitons in liquid crystals. / Perumbilavil, S.; Piccardi, A.; Kauranen, M.; Assanto, G.

Nonlinear Photonics, NP 2018. Vol. Part F108-NP 2018 OSA - The Optical Society, 2018.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Directional selectivity through the subwavelength slit in metallic gratings. / Cakmakyapan, Semih; Caglayan, Humeyra; Serebryannikov, Andriy; Ozbay, Ekmel.

2011 Conference on Lasers and Electro-Optics: Laser Science to Photonic Applications, CLEO 2011. 2011. 5951099.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Dots-on-the-fly electron beam lithography. / Isotalo, Tero J.; Niemi, Tapio.

SPIE Proceedings: Alternative Lithographic Technologies VIII. ed. / Christopher Bencher. Vol. 9777 SPIE, 2016. 97771E (Proceedings of SPIE).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Double-asymmetric-structure 1.5 μ m high power laser diodes. / Hallman, Lauri; Ryvkin, Boris S.; Avrutin, Eugene A.; Aho, Antti T.; Viheriälä, Jukka; Guina, Mircea; Kostamovaara, Juha T.

Proceedings of the 2019 IEEE High Power Diode Lasers and Systems Conference, HPD 2019 - Co-located with Photonex 2019. IEEE, 2019. p. 19-20.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Double-side pumped membrane external-cavity surface-emitting laser (MECSEL) with increased efficiency emitting > 3 W in the 780 nm region. / Kahle, Hermann; Phung, Hoy-My; Penttinen, Jussi-Pekka; Rajala, Patrik; Tukiainen, Antti; Ranta, Sanna; Guina, Mircea.

2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE, 2019.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Dynamic laser speckle metrology with binarization of speckle patterns. / Stoykova, Elena; Nazarova, Dimana; Berberova, Nataliya; Gotchev, Atanas; Ivanov, Branimir; Mateev, Georgy.

19th International Conference and School on Quantum Electronics: Laser Physics and Applications. SPIE, 2017.

102260R (Proceedings of SPIE; Vol. 10226).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Eco-friendly flexible wireless platforms by 3D printing pen. / Mehmood, Adnan; Chen, Xiaochen; He, Han; Ukkonen, Leena; Virkki, Johanna.

2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE, 2019. p.

2422-2425 9021887 (2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 -

Proceedings).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Effect of Epoxy Flux Underfill on Thermal Cycling Reliability of Sn-8Zn-3Bi Lead-Free Solder in a Sensor Application. /

Mostofizadeh, M.; Najari, M.; Das, D.; Pecht, M.; Frisk, L.

Proceedings - ECTC 2016: 66th Electronic Components and Technology Conference. IEEE, 2016. p. 2169-2175.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Embroidered and e-textile conductors embedded inside 3D-printed structures. / Khan, Zahangir; He, Han; Chen, Xiaochen; Ukkonen, Leena; Virkki, Johanna.

2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE, 2019. p.

1675-1680 9021681.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Enhanced-performance wireless conformal "smart skins" utilizing inkjet-printed carbon-nanostructures. / Le, Taoran; Lin, Ziyin; Wong, C. P.; Tentzeris, M. M.

Proceedings - Electronic Components and Technology Conference. Institute of Electrical and Electronics Engineers Inc., 2014. p. 769-774 6897372.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Evaluating transparent liquid screen overlay as a haptic conductor : Method of enhancing touchscreen based user interaction by a transparent deformable liquid screen overlay. / Farooq, A.; Evreinov, G.; Raisamo, R.; Takahata, D.

2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc., 2015. 7370186.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Fabrication and characterization of broadband superluminescent diodes for 2 μm wavelength. / Zia, Nouman; Viheriälä, Jukka; Koskinen, Riku; Koskinen, Mervi; Suomalainen, Soile; Guina, Mircea.

Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XX. SPIE, 2016. 97680Q

(Proceedings of SPIE; Vol. 9768).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Fabrication and performance evaluation of 3D-printed graphene passive UHF RFID tags on cardboard. / He, Han; Akbari, Mitra; Chen, Xiaochen; Nommeots-Nomm, Amy; Chen, Liquan; Ukkonen, Leena; Virkki, Johanna.

2017 Progress in Electromagnetics Research Symposium - Spring, PIERS 2017. IEEE, 2017. p. 3322-3325.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Fabrication and reliability evaluation of passive UHF RFID T-shirts. / Chen, X.; He, H.; Ukkonen, L.; Virkki, J.; Lu, Y.; Lam, H.

2018 IEEE International Workshop on Antenna Technology, iWAT2018 - Proceedings. IEEE, 2018. p. 1-4.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Fabrication Challenges in Embedding of Components and Embroidered Conductors into 3D-printed Textile Electronics Structures. / Khan, Zahangir; He, Han; Chen, Xiaochen; Ukkonen, Leena; Virkki, Johanna.

2019 Photonics and Electromagnetics Research Symposium - Spring, PIERS-Spring 2019 - Proceedings. IEEE, 2019. p. 1372-1377 9017223 (Progress in Electromagnetics Research Symposium; Vol. 2019-June).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Fluorescence bandwidth of 280nm from broadband Ce³⁺-doped silica fiber pumped with blue laser diode. / Yadav, A.; Chichkov, N. B.; Gumenyuk, R.; Zherebtsov, E.; Melkumov, M. A.; Yashkov, M. V.; Dianov, E. M.; Rafailov, E. U.

2018 International Conference Laser Optics (ICLO) . IEEE, 2018. p. 133-133 8435861.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Frequency Comb Generation in a Continuous-Wave Pumped Second-Order Nonlinear Waveguide Resonator. / Abdallah, Zeina; Stefszky, Michael; Ulvila, Ville; Silberhorn, Christine; Vainio, Markku.

2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE, 2019.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Frequency-doubled VECSEL employing a Volume Bragg Grating for linewidth narrowing. / Kantola, Emmi; Penttinen, Jussi-Pekka; Leinonen, Tomi; Ranta, Sanna; Guina, Mircea.

CLEO: Applications and Technology, CLEO_AT 2018. OSA - The Optical Society, 2018.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Frequency-doubled wafer-fused 638 nm VECSEL with an output power of 5.6 W. / Kantola, Emmi; Leinonen, Tomi; Rantamäki, Antti; Guina, Mircea; Sirbu, Alexei; Iakovlev, Vladimir.

CLEO: Applications and Technology, CLEO_AT 2018. OSA - The Optical Society, 2018.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Germanium-on-glass solar cells. / Colace, Lorenzo; Soriano, Vito; Maragliano, Carlo; Assanto, Gaetano; Fulgoni, D.; Nash, L.; Palmer, M.

8th IEEE International Conference on Group IV Photonics, GFP 2011. 2011. p. 255-257 6053781.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Green (In,Ga,Al)P-GaP light-emitting diodes grown on high-index GaAs surfaces. / Ledentsov, N. N.; Shchukin, V. A.; Lyytikäinen, J.; Okhotnikov, O.; Cherkashin, N. A.; Shernyakov, Yu M.; Payusov, A. S.; Gordeev, N. Y.; Maximov, M. V.; Schlichting, S.; Nippert, F.; Hoffmann, A.

Proceedings of SPIE: Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XIX. Vol. 9383 SPIE, 2015. 93830E.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

>8W GainNAs VECSEL emitting at 615 nm. / Leinonen, Tomi; Penttinen, Jussi Pekka; Korpijärvi, Ville Markus; Kantola, Emmi; Guina, Mircea.

Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) V. Vol. 9349 SPIE, 2015. 934909.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Highly-efficient Ho:KY(WO4)2 thin-disk lasers at 2.06 μm. / Mateos, Xavier; Loiko, Pavel; Lamrini, Samir; Scholle, Karsten; Fuhrberg, Peter; Suomalainen, Soile; Härkönen, Antti; Guina, Mircea; Vatnik, Sergei; Vedin, Ivan; Aguiló, Magdalena; Díaz, Francesc; Wang, Yicheng; Griebner, Uwe; Petrov, Valentin.

Pacific-Rim Laser Damage 2018: Optical Materials for High-Power Lasers. SPIE, IEEE, 2018. 107130J (Proceedings of SPIE; Vol. 10713).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

High performance GaSb superluminescent diodes for tunable light source at 2 μm and 2.55 μm. / Zia, Nouman; Viheriälä, Jukka; Koivusalo, Eero; Aho, Antti; Suomalainen, Soile; Guina, Mircea.

CLEO: Applications and Technology, CLEO_AT 2018. OSA - The Optical Society, 2018.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

High-power 1550 nm tapered DBR lasers fabricated using soft UV-nanoimprint lithography. / Viheriälä, Jukka; Aho, Antti T.; Mäkelä, Jaakko; Salmi, Joel; Virtanen, Heikki; Leinonen, Tomi; Dumitrescu, Mihail; Guina, Mircea.

High-Power Diode Laser Technology and Applications XIV. SPIE, 2016. 97330Q (SPIE Conference Proceedings; Vol. 9733).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

High-Q resonance train in a plasmonic metasurface. / Saad-Bin-Alam, Md; Reshef, Orad; Huttunen, Mikko J.; Carlow, Graham; Sullivan, Brian; Menard, Jean Michel; Dolgaleva, Ksenia; Boyd, Robert W.

2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE, 2019.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Hot pen and laser writable photonic polymer films. / Moirangthem, Monali; Stumpel, Jelle E.; Alp, Baran; Teunissen, Pit; Bastiaansen, Cees W M; Schenning, Albertus P H J.

Emerging Liquid Crystal Technologies XI. Vol. 9769 SPIE, 2016. 97690Y.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Inkjet-printed dual microfluidic-based sensor integrated system. / Su, W.; Cooper, J. R.; Cook, B. S.; Tentzeris, M. M.; Mariotti, C.; Roselli, L.

2015 IEEE SENSORS - Proceedings. Institute of Electrical and Electronics Engineers Inc., 2015. 7370300.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Inkjet-printed graphene-based wireless gas sensor modules. / Le, Taoran; Lakafosis, Vasileios; Lin, Ziyin; Wong, C. P.; Tentzeris, M. M.

2012 IEEE 62nd Electronic Components and Technology Conference, ECTC 2012. 2012. p. 1003-1008 6248958.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Inkjet printed single layer high-density circuitry for a MEMS device. / Laurila, Mika-Matti; Soltani, Ayat; Mäntysalo, Matti.

2015 IEEE 65th Electronic Components and Technology Conference (ECTC). IEEE, 2015. p. 968-972.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Integrated multi-wavelength mid-IR light source for gas sensing. / Karioja, Pentti; Alajoki, Teemu; Cherchi, Matteo; Ollila, Jyrki; Harjanne, Mikko; Heinilehto, Noora; Suomalainen, Soile; Zia, Nouman; Tuorila, Heidi; Viheriälä, Jukka; Guina, Mircea; Buczynski, Ryszard; Kasztelanica, Rafa; Salo, Tomi; Virtanen, Sami; Kluczynski, Pawel; Borgen, Lars; Ratajczyk, Marcin; Kalinowski, Przemyslaw.

Next-Generation Spectroscopic Technologies XI. SPIE, IEEE, 2018. 106570A (SPIE Conference Proceedings; Vol. 10657).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Integrating III-V, Si, and polymer waveguides for optical interconnects : RAPIDO. / Aalto, Timo; Harjanne, Mikko; Offrein, Bert Jan; Caër, Charles; Neumeier, Christian; Malacarne, Antonio; Guina, Mircea; Sheehan, Robert N.; Peters, Frank H.; Melanen, Petri.

Optical Interconnects XVI. SPIE, 2016. 97530D (Proceedings of SPIE; Vol. 9753).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Intelligent data service for farmers. / Linna, P.; Narra, N.; Grönman, J.

2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings. ed. / Karolj Skala; Zeljka Car; Predrag Pale; Darko Huljenic; Matej Janjic; Marko Korovic; Vlado Sruk; Slobodan Ribaric; Tihana Galinac Grbac; Zeljko Butkovic; Marina Cicin-Sain; Dejan Skvorc; Mladen Mauher; Snjezana Babic; Stjepan Gros; Boris Vrdoljak; Edvard Tijan. IEEE, 2019. p. 1072-1075.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Interstitial photodynamic therapy and glioblastoma : Light fractionation study on a preclinical model: Preliminary results. / Leroy, Henri Arthur; Vermandel, Maximilien; Tétard, Marie Charlotte; Lejeune, Jean Paul; Mordon, Serge; Reyns, Nicolas.

Optical Techniques in Neurosurgery, Neurophotonics, and Optogenetics II. Vol. 9305 SPIE, 2015. 93050D.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Investigating human skin using deep learning enhanced multiphoton microscopy. / Huttunen, Mikko J.; Hristu, Radu; Dumitru, Adrian; Costache, Mariana; Stanciu, Stefan G.
21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE, 2019. (International Conference on Transparent Optical Networks).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Labyrinth based left-handed metamaterials and sub-wavelength focusing of electromagnetic waves. / Ozbay, Ekmel; Bulu, Irfan; Caglayan, Humeyra.

Photonic Crystal Materials and Devices IV. Vol. 6128 2006. 612813 (Proceedings of SPIE; Vol. 6128).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Light propagation analysis in nervous tissue for wireless optogenetic nanonetworks. / Wirdatmadja, Stefanus; Johari, Pedram; Balasubramaniam, Sasitharan; Bae, Yongho; Stachowiak, Michal K.; Jorner, Josep M.

Optogenetics and Optical Manipulation 2018. SPIE, 2018. 104820R.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Localization of light at vanishingly small disorder-levels with heavy photons. / Baron, A.; Faggiani, R.; Zang, X.; Lalouat, L.; Schulz, S. A.; Vynck, K.; O'Regan, B.; Cluzel, B.; De Fornel, F.; Krauss, T. F.; Lalanne, P.

2015 Conference on Lasers and Electro-Optics, CLEO 2015. Vol. 2015-August Optical Society of America OSA, 2015. 7183319.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Local Mechanical Properties at the Dendrite Scale of Ni-Based Superalloys Studied by Advanced High Temperature Indentation Creep and Micropillar Compression Tests. / Haußmann, Lukas; Neumeier, Steffen; Kolb, Markus; Ast, Johannes; Mohanty, Gaurav; Michler, Johann; Göken, Mathias.

Superalloys 2020: Proceedings of the 14th International Symposium on Superalloys. ed. / Sammy Tin; Mark Hardy; Justin Clews; Jonathan Cormier; Qiang Feng; John Marcin; Chris O'Brien; Akane Suzuki. Springer, 2020. p. 273-281 (The Minerals, Metals and Materials Series).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Machine learning for adaptive bilateral filtering. / Frosio, Iuri; Egiazarian, Karen; Pulli, Kari.

Image Processing: Algorithms and Systems XIII. Vol. 9399 SPIE, 2015. 939908 (Proceedings of SPIE - The International Society for Optical Engineering).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Maintenance-free moisture sensor on dishcloth substrate. / Chen, Xiaochen; He, Han; Yang, Yunshan; Gou, Meinan; Sydanheimo, Lauri; Ukkonen, Leena; Virkki, Johanna.

2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE, 2019. p. 2418-2421 9021487.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Measuring bend losses in large-mode-area fibers. / Ye, Changgeng; Koponen, Joonas; Aallos, Ville; Kokki, Teemu; Petit, Laetitia; Kimmelma, Ossi.

Fiber Lasers XII: Technology, Systems, and Applications. Vol. 9344 SPIE, 2015. 934425.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

MECELS 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. / Kahle, Hermann; Penttinen, Jussi Pekka; Phung, Hoy My; Rajala, Patrik; Tukiainen, Antti; Ranta, Sanna; Guina, Mircea.

Vertical External Cavity Surface Emitting Lasers (VECSELs) IX. ed. / Ursula Keller. SPIE, IEEE, 2019. 109010D (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 10901).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Mode coupling in few-mode large-mode-area fibers. / Ye, Changgeng; Koponen, Joonas; Aallos, Ville; Petit, Laetitia; Kimmelma, Ossi; Kokki, Teemu.

Fiber Lasers XI: Technology, Systems, and Applications. Vol. 8961 SPIE, 2014. 89612W.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Molecular dynamics simulations for Xe absorbed in zeolites. / Kantola, J. H.; Vaara, J.; Rantala, T. T.; Jokisaari, J. Materials Research Society Symposium - Proceedings. ed. / Efthimios Kaxiras; John Joannopoulos; Priya Vashishta; Rajiv K. Kalia. Vol. 408 MATERIALS RESEARCH SOCIETY, 1996. p. 599-604.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Monolithic GaInNAsSb/GaAs VECSEL emitting at 1550 nm. / Korpijärvi, Ville-Markus; Kantola, Emmi L.; Leinonen, Tomi; Guina, Mircea.

SPIE conference proceedings. Vol. 9349 SPIE, 2015. 93490D.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Multicolor nonlinear pulse compression by consecutive optical parametric amplification in quasi-phase matched structures. / Sapaev, U. K.; Yusupov, D. B.; Assanto, G.

ICONO 2010: International Conference on Coherent and Nonlinear Optics. Vol. 7993 2011. 79930Q.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Multiwavelength surface contouring from phase-coded diffraction patterns. / Katkovnik, Vladimir; Shevkunov, Igor; Petrov, Nikolay V.; Eguiazarian, Karen.

Unconventional Optical Imaging 2018. Strasbourg, France. SPIE, 2018. 106771B (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 10677).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Nanoparticles in optical waveguides : A toolbox to promote lasers, amplifiers and sensors. / Blanc, Wilfried; Vermillac, Manuel; Petit, Laetitia; Lukowiak, Anna; Lu, Zhuorui; Mady, Franck; Benabdesselam, Mourad; Chaussedent, Stéphane; Mehdi, Ahmad; Ferrari, Maurizio.

21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE, 2019. (International Conference on Transparent Optical Networks).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Narrow Bandgap Dilute Nitride Materials for 6-junction Space Solar Cells. / Isoaho, Riku; Aho, Arto; Tukiainen, Antti; Aho, Timo; Raappana, Marianna; Salminen, Turkka; Reuna, Jarno ; Guina, Mircea.

2019 European Space Power Conference (ESPC). IEEE, 2019.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

New multisoliton complex in Bi-doped fiber laser operated at 1450 nm. / Gumenyuk, Regina; Rissanen, Joonas; Korobko, Dmitry A.; Zolotovskiy, Igor O.; Melkumov, Mikhail; Khopin, Vladimir F.

European Quantum Electronics Conference 2017. Vol. Part F81-EQEC 2017 The Optical Society; OSA, 2017. EF_5_4.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Noise characterization of Ge/Si photodetectors. / Colace, Lorenzo; Scacchi, Andrea; Assanto, Gaetano.

8th IEEE International Conference on Group IV Photonics, GFP 2011. 2011. p. 290-292 6053793.

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Noise measurements from reconstructed digital breast tomosynthesis. / Vimieiro, Rodrigo B.; Borges, Lucas R.; Caron, Renato F.; Barufaldi, Bruno; Bakic, Predrag R.; Maidment, Andrew D.A.; Vieira, Marcelo A.C.

Medical Imaging 2019: Physics of Medical Imaging. ed. / Taly Gilat Schmidt; Guang-Hong Chen; Hilde Bosmans. SPIE, IEEE, 2019. 109480C (Progress in Biomedical Optics and Imaging - Proceedings of SPIE; Vol. 10948).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

No-reference visual quality assessment for image inpainting. / Voronin, V. V.; Frantc, V. A.; Marchuk, V. I.; Sherstobitov, A. I.; Egiuzarian, K.

Image Processing: Algorithms and Systems XIII. SPIE, 2015. 93990U (SPIE Conference Proceedings; Vol. 9399).

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Novel enhancement techniques for ultra-high-performance conformal wireless sensors and 'smart skins' utilizing inkjet-printed graphene. / Le, Taoran; Lin, Ziyin; Wong, C. P.; Tentzeris, M. M.
2013 IEEE 63rd Electronic Components and Technology Conference, ECTC 2013. 2013. p. 1640-1643 6575792.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Novel Er³⁺ doped phosphate glass-ceramics for photonics. / Petit, L.; Nguyen, H.; Hongisto, M.; Salminen, T.; Hakkarainen, T.; Lopez-Iscoa, P.; Pugliese, D.; Boetti, N. G.; Milanese, D.
ICTON 2017 - 19th International Conference on Transparent Optical Networks. IEEE COMPUTER SOCIETY PRESS, 2017.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Novel highly-efficient and misalignment insensitive wireless power transfer systems utilizing Strongly Coupled Magnetic Resonance principles. / Daerhan, Daerhan; Jonah, Olutola; Hu, Hao; Georgakopoulos, Stavros V.; Tentzeris, Manos M.
Proceedings - Electronic Components and Technology Conference. Institute of Electrical and Electronics Engineers Inc., 2014. p. 759-762 6897370.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Observation of local electroluminescent cooling and identifying the remaining challenges. / Radevici, Ivan; Sadi, Toufik; Tripurari, Tripathi; Tiira, Jonna; Ranta, Sanna; Tukiainen, Antti; Guina, Mircea; Oksanen, Jani.
Photonic Heat Engines: Science and Applications. ed. / Denis V. Seletskiy; Richard I. Epstein; Mansoor Sheik-Bahae. SPIE, IEEE, 2019. 109360A (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 10936).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Optical and topographic changes in water-responsive patterned cholesteric liquid crystalline polymer coatings. / Stumpel, Jelle E.; Broer, Dirk J.; Bastiaansen, Cees W M; Schenning, Albert P H J.
Proceedings of SPIE: Organic Photonics VI. Vol. 9137 SPIE, 2014. 91370U (Proceedings of SPIE: the International Society for Optical Engineering).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Optical fiber amplifier with spectral compression elements for high-power laser pulse generation. / Fotiadi, Andrei A.; Korobko, Dmitry A.; Okhotnikov, Oleg G.; Zolotovskii, Igor O.
Nonlinear Optics and its Applications IV. Vol. 9894 SPIE, 2016. 989411 (Proceedings of SPIE; Vol. 9894).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Optical Frequency Comb Photoacoustic Spectroscopy. / Sadiq, Ibrahim; Mikkonen, Tommi; Vainio, Markku; Toivonen, Juha; Foltynowicz, Aleksandra.
2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings. IEEE, 2019.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Passive UHF RFID-based user interface on a wooden surface. / Mehmood, Adnan; Vianto, Ville; He, Han; Chen, Xiaochen; Buruk, Oguz Oz; Ukkonen, Leena; Virkki, Johanna.
2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE, 2019. p. 1760-1763 9021441.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Performance of Solar Cell Grids based on Ag, Au, and Al for Cost-Effective Manufacturing. / Raappana, Marianna; Aho, Arto; Aho, Timo; Isoaho, Riku; Anttola, Elina; Kajas, Ninja; Polojärvi, Ville; Tukiainen, Antti; Guina, Mircea.
2019 European Space Power Conference (ESPC). IEEE, 2019.
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Persistent luminescent glasses prepared using the direct doping method. / Aryal, U.; Ojha, N.; Trautvetter, T.; Lastusaari, M.; Ueda, J.; Mueller, R.; Veber, A.; Petit, L.
21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE, 2019. (International Conference on Transparent Optical Networks).
Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Phase-coded computational imaging for depth of field extension. / Sahin, Erdem; Akpinar, Ugur; Gotchev, Atanas. Proceedings - Digital Holography and Three-Dimensional Imaging 2019. Optical Society of America, 2019. Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Picosecond MOPA with ytterbium doped tapered double clad fiber. / Filippov, Valery; Vorotynskii, Andrei; Noronen, Teppo; Gumenyuk, Regina; Chamorovskii, Yuri; Golant, Konstantin. Fiber Lasers XIV: Technology and Systems. Vol. 10083 SPIE, 2017. 100831H (Proceedings of SPIE; No. 10083). Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Pipeline for effective denoising of digital mammography and digital breast tomosynthesis. / Borges, Lucas R.; Bakic, Predrag R.; Foi, Alessandro; Maidment, Andrew D.A.; Vieira, Marcelo A.C. Medical Imaging 2017: Physics of Medical Imaging. SPIE, 2017. 1013206 (Progress in biomedical optics and imaging). Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Power and wavelength scaling using semiconductor disk laser - bismuth fiber MOPA systems. / Heikkinen, Juuso; Gumenyuk, Regina; Rantamäki, Antti; Lyytikäinen, Jari; Leinonen, Tomi; Zolotovskii, Igor; Melkumov, Mikhail; Dianov, Evgeny M.; Okhotnikov, Oleg G. Vertical External Cavity Surface Emitting Lasers (VECSELs) V. ed. / M Guina. BELLINGHAM : SPIE, 2015. 93490E (Proceedings of SPIE; Vol. 9349). Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Preserving natural scene lighting by strobe-lit video. / Suominen, Olli; Gotchev, Atanas. Image Processing: Algorithms and Systems XIII. SPIE, 2015. 939919 (SPIE Conference Proceedings; Vol. 9399). Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Processing and Characterization of Bioactive Borosilicate Glasses and Scaffolds with Persistent Luminescence. / Del Cerro, P. Roldan; Saarinen, M.; Massera, J.; Norrbo, I.; Lastusaari, M.; Petit, L. 2018 20th International Conference on Transparent Optical Networks, ICTON 2018. Vol. 2018-July IEEE COMPUTER SOCIETY PRESS, 2018. 8473916 (Conference proceedings : International Conference on Transparent Optical Networks). Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Processing of printed silver patterns on an ETFE substrate. / Mikkonen, Riikka; Lahokallio, Sanna; Frisk, Laura; Mäntysalo, Matti. Proceedings - 2018 IMAPS Nordic Conference on Microelectronics Packaging, NORDPAC 2018. IEEE, 2018. p. 1-7 8423860. Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Processor core for 32 kbit/s G.726 ADPCM codecs. / Vehviläinen, Juhani; Nurmi, Jari. 1995 IEEE International Symposium on Circuits and Systems. ISCAS '95. Vol. 3 IEEE, 1995. p. 1932-1935. Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Propagation dynamics of ultrabroadband terahertz beams with orbital angular momentum for wireless data transfer. / Kulya, Maksim S.; Sokolenko, Bogdan; Gorodetsky, Andrei; Petrov, Nikolay V. Broadband Access Communication Technologies XIV. ed. / Benjamin B. Dingel; Katsutoshi Tsukamoto; Spiros Mikroulis. SPIE, 2020. 113070J (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 11307). Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Pulsed high-power yellow-orange VECSEL. / Kantola, Emmi; Leinonen, Tomi; Ranta, Sanna; Tavast, Miki; Guina, Mircea. Photonics Europe 2014, Semiconductor Lasers and Laser Dynamics VI, April 14-17, 2014, Brussels, Belgium. Proceedings of SPIE. Vol. 9134 SPIE, 2014. 91340Z (SPIE Conference Proceedings; Vol. 9134). Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Quantum-well Laser Emitting at 1.2 μm -1.3 μm Window Monolithically Integrated on Ge Substrate. / Guina, Mircea; Isoaho, Riku; Viheriälä, Jukka; Aho, Arto; Aho, Antti; Tukiainen, Antti. 43rd European Conference on Optical Communication, ECOC 2017. IEEE, 2018. p. 1-3. Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Real-time depth image-based rendering with layered dis-occlusion compensation and aliasing-free composition. / Smirnov, Sergey; Gotchev, Atanas.

Proceedings of SPIE - The International Society for Optical Engineering. SPIE, 2015. 93990T (SPIE Conference Proceedings; Vol. 9399).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Real-time measurements of nonlinear instabilities in optical fibers. / Ryczkowski, Piotr; Närhi, Mikko; Billet, Cyril; Merolla, Jean Marc; Dudley, John M.; Genty, Goery.

CLEO: Applications and Technology, CLEO_AT 2018. OSA - The Optical Society, 2018.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Real-time measurements of ultrafast instabilities in nonlinear fiber optics : Recent advances. / Dudley, John M.; Ryczkowski, Piotr; Närhi, Mikko; Billet, Cyril; Merolla, Jean Marc; Lapre, Coraline; Meng, Fanchao; Lacourt, Pierre Ambroise; Genty, Goery.

21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE, 2019. (International Conference on Transparent Optical Networks).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Reliability of ACA interconnections on microvia HDI PCBs in thermal cycling conditions. / Frisk, L.; Lahokallio, S.; Kiilunen, J.

IMAPS Nordic Annual Conference 2016 Proceedings. ed. / J. Kutilainen. IMAPS-International Microelectronics and Packaging Society, 2016.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

RFDNA : A wireless authentication system on flexible substrates. / Dejean, Gerald; Lakafosis, Vasileios; Traille, Anya; Lee, Hoseon; Gebara, Edward; Tentzeris, Manos; Kirovski, Darko.

2011 IEEE 61st Electronic Components and Technology Conference, ECTC 2011. 2011. p. 1332-1337 5898684.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Screen-Printed Stretchable Interconnects. / Suikkola, Jari; Kankkunen, Timo; Iso-Ketola, Pekka; Vanhala, Jukka; Mäntysalo, Matti.

Proceedings - ECTC 2016: 66th Electronic Components and Technology Conference. IEEE, 2016. p. 1650-1655.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Screen printed temporary tattoos for skin-mounted electronics. / Tuominen, Samuli; Mäntysalo, Matti.

IEEE 69th Electronic Components and Technology Conference, ECTC 2019. IEEE, 2019. p. 1252-1257.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

SESAM mode-locked Tm : CALGO laser at 2 μm . / Wang, Yicheng; Xie, Guoqiang; Xu, Xiaodong; Di, Juqing; Qin, Zhipeng; Suomalainen, Soile; Guina, Mircea; Härkönen, Antti; Agnesi, Antonio; Griebner, Uwe; Mateos, Xavier; Loiko, Pavel; Petrov, Valentin.

Advanced Solid State Lasers, ASSL 2015. Optical Society of America OSA, 2015. AW1A.2.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Short-range supercontinuum based lidar for combustion diagnostics. / Saleh, Abba; Ryczkowski, Piotr; Genty, Goery; Toivonen, Juha.

SPIE Future Sensing Technologies. ed. / Masafumi Kimata; Christopher R. Valenta. SPIE, IEEE, 2019. 111970Y (Proceedings of SPIE; Vol. 11197).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Simulation of photon-photon resonance enhanced direct modulation bandwidth of DFB lasers. / Dumitrescu, M.; Uusitalo, T.; Virtanen, H.; Laakso, A.; Bardella, P.; Montrosset, I.

16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE, 2016. p. 147-148.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Simulation studies of DFB laser longitudinal structures for narrow linewidth emission. / Virtanen, Heikki; Uusitalo, Topi; Dumitrescu, Mihail.
16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE, 2016. p. 153-154.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Simultaneous binary hash and features learning for image retrieval. / Frantc, V. A.; Makov, S. V.; Voronin, V. V.; Marchuk, V. I.; Semenishchev, E. A.; Egiazarian, K. O.; Agaian, S.
Mobile Multimedia/Image Processing, Security, and Applications 2016. SPIE, 2016. 986902 (SPIE Conference Proceedings; Vol. 9869).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Single exposure lensless subpixel phase imaging. / Kocsis, Péter; Shevkunov, Igor; Katkovnik, Vladimir; Egiazarian, Karen.
Digital Optical Technologies 2019. ed. / Bernard C. Kress; Peter Schelkens. SPIE, IEEE, 2019. (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 11062).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Single KTIPO4 nanocrystals for nonlinear probing of local optical fields and interaction with a metallic nanostructure. / Slablab, A.; Le Xuan, L.; Zhou, C.; Chauvat, D.; De Wilde, Y.; Perruchas, S.; Tard, C.; Gacoin, T.; Villeval, P.; Roch, J. F.
CLEO/Europe - EQEC 2009 - European Conference on Lasers and Electro-Optics and the European Quantum Electronics Conference. 2009. 5192089.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Site-controlled InAs Quantum Dots for Plasmonics. / Hakkarainen, Teemu; Tommila, Juha; Schramm, Andreas; Simonen, Janne; Niemi, Tapio; Strelow, Christian; Kipp, Tobias; Kontio, Juha; Guina, Mircea.
Conference on Lasers and Electro-Optics 2016: QELS_Fundamental Science. OSA - The Optical Society, 2016. FM1B.3.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Strong localization in unintentional disordered photonics crystal waveguides. / Zang, X.; Lalanne, P.
2013 7th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics, METAMATERIALS 2013. IEEE COMPUTER SOCIETY PRESS, 2013. p. 322-324.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Study of second-harmonic generation from CdS nanostructured thin film. / Mathew, S.; Koskinen, Kalle; Czaplicki, Robert; Pradeep, C.; Kailasnath, M.; GVallabhan, C. P.; Kauranen, Martti; Radhakrishnan, P.
12th International Conference on Fiber Optics and Photonics. Optical Society of America (OSA), 2014. M4A.46.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Sub-100 fs pulse generation from a Tm,Ho : CALYO laser mode-locked by a GaSb-based SESAM at ~2043 nm. / Zhao, Yongguang; Wang, Yicheng; Zhang, Xuzhao; Mateos, Xavier; Pan, Zhongben; Loiko, Pavel; Zhou, Wei; Xu, Xiaodong; Xu, Jun; Shen, Deyuan; Suomalainen, Soile; Härkönen, Antti; Guina, Mircea; Griebner, Uwe; Petrov, Valentin.
CLEO: Science and Innovations, CLEO_SI 2018. OSA - The Optical Society, 2018.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Sub-10 optical-cycle mode-locked Tm:(Lu₂/3Sc₁/3)2O₃ mixed ceramic laser at 2057 nm. / Wang, Yicheng; Jing, Wei; Loiko, Pavel; Zhao, Yongguang; Huang, Hui; Suomalainen, Soile; Härkönen, Antti; Guina, Mircea; Mateos, Xavier; Griebner, Uwe; Petrov, Valentin.
Advanced Solid State Lasers 2017: Nagoya, Aichi Japan 1–5 October 2017. The Optical Society; OSA, 2017. ATu6A.4.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Sub-parts-per-trillion sensitivity in trace gas detection by cantilever-enhanced photo-acoustic spectroscopy. / Tomberg, Teemu; Vainio, Markku; Hieta, Tuomas; Halonen, Lauri.
CLEO: Applications and Technology, CLEO_AT 2018. OSA - The Optical Society, 2018.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Switchable unidirectional second-harmonic emission through GaAs nanoantennas. / Xu, Lei; Saerens, Grégoire; Timofeeva, Maria; Miroshnichenko, Andrey E.; Camacho-Morales, Rocio; Volkovskaya, Irina; Smirnova, Daria A.; Lysevych, Mykhaylo; Huang, Lujun; Cai, Marcus; Karouta, Fouad; Hoe Tan, H.; Kauranen, Martti; Jagadish, Chennupati;

Grange, Rachel; Neshev, Dragomir N.; Rahmani, Mohsen.

AOS Australian Conference on Optical Fibre Technology, ACOFT 2019 and Australian Conference on Optics, Lasers, and Spectroscopy, ACOLS 2019. ed. / Arnan Mitchell; Halina Rubinsztein-Dunlop. SPIE, 2019. 112000J (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 11200).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

System-level design for partially reconfigurable hardware. / Qu, Yang; Tiensyrjä, Kari; Soininen, Juha Pekka; Nurmi, Jari. 2007 IEEE International Symposium on Circuits and Systems . 2007. p. 2738-2741.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Tailoring directional scattering of second-harmonic generation from (111)-GaAs nanoantennas. / Sautter, J.; Xu, L.; Miroshnichenko, A.; Lysevych, M.; Volkovskaya, I.; Smirnova, D.; Camacho Morales, M.; Zangeneh Kamali, K.; Karouta, F.; Vora, K.; Tan, H. H.; Kauranen, M.; Staude, I.; Jagadish, C.; Neshev, D. N.; Rahmani, M.

AOS Australian Conference on Optical Fibre Technology, ACOFT 2019 and Australian Conference on Optics, Lasers, and Spectroscopy, ACOLS 2019. ed. / Arnan Mitchell; Halina Rubinsztein-Dunlop. SPIE, 2019. 112000H (Proceedings of SPIE - The International Society for Optical Engineering; Vol. 11200).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Teaching for virtual work. / Henno, J.; Jaakkola, H.; Mäkelä, J.

2019 42nd International Convention on Information and Communication Technology, Electronics and Microelectronics, MIPRO 2019 - Proceedings. ed. / Karolj Skala; Zeljka Car; Predrag Pale; Darko Huljenic; Matej Janjic; Marko Koracic; Vlado Sruk; Slobodan Ribaric; Tihana Galinac Grbac; Zeljko Butkovic; Marina Cicin-Sain; Dejan Skvorc; Mladen Mauher; Snjezana Babic; Stjepan Gros; Boris Vrdoljak; Edvard Tijan. IEEE, 2019. p. 818-826.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

The effects of I/Q imbalance on wireless communications : A survey. / Selim, Bassant; Sofotasios, Paschalis C.; Muhaidat, Sami; Karagiannidis, George K.

2016 IEEE 59th International Midwest Symposium on Circuits and Systems (MWSCAS). IEEE, 2017.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

The magical world of metamaterials. / Caglayan, Humeyra; Ozbay, Ekmel.

Photonic Materials, Devices, and Applications III. Vol. 7366 2009. 73660X (Proceedings of SPIE; Vol. 7366).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Thermal effects on a passive wireless antenna sensor for strain and crack sensing. / Yi, Xiaohua; Vyas, Rushi; Cho, Chunhee; Fang, Chia Hung; Cooper, James; Wang, Yang; Leon, Roberto T.; Tentzeris, Manos M.

Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2012. Vol. 8345 2012. 83450F.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Thickness variation study of RFID-based folded patch antennas for strain sensing. / Yi, Xiaohua; Wu, Terence; Lantz, Gabriel; Wang, Yang; Leon, Roberto T.; Tentzeris, Manos M.

Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2011. Vol. 7981 2011. 79811H.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Towards efficient nonlinear plasmonic metasurfaces. / Huttunen, Mikko J.; Stolt, Timo; Reshef, Orad; Kiviniemi, Antti; Czaplicki, Robert; Zang, Xiaorun; Vartiainen, Ismo; Butet, Jeremy; Kuittinen, Markku; Martin, Olivier J.F.; Dolgaleva, Ksenia; Boyd, Robert W.; Kauranen, Martti.

21st International Conference on Transparent Optical Networks, ICTON 2019. IEEE, 2019. (International Conference on Transparent Optical Networks).

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Transverse structure optimization of laterally-coupled ridge waveguide DFB lasers. / Uusitalo, Topi; Virtanen, Heikki; Dumitrescu, Mihail.

16th International Conference on Numerical Simulation of Optoelectronic Devices, NUSOD 2016. IEEE, 2016. p. 79-80 7547038.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Tunable Reflection Type Plasmon Induced Transparency with Graphene. / Habib, M.; Ozbay, E.; Caglayan, H.
2018 12th International Congress on Artificial Materials for Novel Wave Phenomena, METAMATERIALS 2018. IEEE, 2018. p. 170-172.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Two-part stretchable passive UHF RFID textile tags. / Chen, Xiaochen; He, Han; Chen, Liquan; Raunonen, Pasi; Ukkonen, Leena; Virkki, Johanna.
2017 Progress in Electromagnetics Research Symposium - Spring, PIERS 2017. Electromagnetics Academy, 2017. p. 3318-3321.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Ultrafast picosecond MOPA with Yb-doped tapered double clad fiber. / Noronen, Teppo; Gumenyuk, Regina; Chamorovskii, Yuri; Golant, Konstantin; Odnoblyudov, Maxim; Filippov, Valery.
The European Conference on Lasers and Electro-Optics 2017: Munich Germany 25–29 June 2017. Vol. Part F82-CLEO_Europe 2017 The Optical Society; OSA, 2017. CJ_9_4.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Ultra-large mode area single frequency anisotropic MOPA with double clad Yb-doped tapered fiber. / Noronen, Teppo; Fedotov, Andrei; Rissanen, Joona; Gumenyuk, Regina; Butov, Oleg; Chamorovskii, Yuri; Golant, Konstantin; Odnoblyudov, Maxim; Filippov, Valery.
Fiber Lasers XV: Technology and Systems. SPIE, IEEE, 2018. 105121T (Proceedings of SPIE; Vol. 10512).
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Walking anisotropic spatial solitons and their steering in nematic liquid crystals. / Peccianti, Marco; Alberucci, Alessandro; Assanto, Gaetano; De Luca, Antonio; Coschignano, Gianluca; Umetsu, Cesare.
Nonlinear Guided Waves and Their Applications, NLGW 2005. Optical Society of America OSA, 2005.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Surface topography studied by off-axis digital holography. / Achimova, E.; Abaskin, V.; Cazac, V.; Meshalkin, A.; Pedrini, G.; Claus, D.; Shevkunov, I.; Katkovnik, V.
Novel Optical Materials and Applications, NOMA 2018. Vol. Part F107-NOMA 2018 OSA - The Optical Society, 2018.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Professional

1180 nm GaInNAs quantum well based high power DBR laser diodes. / Viheriälä, Jukka; Aho, Antti; Virtanen, Heikki; Dumitrescu, Mihail; Guina, Mircea.
2017. Paper presented at SPIE Photonics West 2017, San Francisco, United States.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

1.3 μm InAs quantum dot semiconductor disk laser. / Blokhin, S. A.; Bobrov, M. A.; Blokhin, A. A.; Kuzmenkov, A. G.; Vasil'Ev, A. P.; Maleev, N. A.; Dudelev, V. V.; Soboleva, K. K.; Sokolovskii, G. S.; Rantamäki, A.; Okhotnikov, O.; Ustinov, V. M.
2016. R317 Paper presented at 2016 International Conference Laser Optics, LO 2016, St. Petersburg, Russian Federation.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

Advanced scheme of amplifier similariton laser. / Korobko, D. A.; Okhotnikov, O. G.; Sysoliatin, A. A.; Zolotovskii, I. O.
2016. R858 Paper presented at 2016 International Conference Laser Optics, LO 2016, St. Petersburg, Russian Federation.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

Finite element method incorporating coupled magneto-elastic model for magneto-mechanical energy harvester. / Ahmed, Umair; Harju, Jarmo; Poutala, Jarmo; Ruuskanen, Pekka; Rasilo, Paavo; Kouhia, Reijo.
2017. Paper presented at Compumag 2017, Daejeon, Korea, Democratic People's Republic of.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

Narrow-linewidth operation of folded VECSEL cavity with twist-mode configuration. / Kaneda, Yushi; Hart, Michael L.; Warner, Stephen H.; Penttinen, Jussi Pekka; Guina, Mircea.
2018. Paper presented at Advanced Solid State Lasers, ASSL 2018, Boston, United States.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

State of polarization in anisotropic tapered fiber with extremely large core diameter. / Ustimchik, V. E.; Vyatkin, M. Yu; Popov, S. M.; Chamorovskii, Yu K.; Filippov, V. N.; Nikitov, S. A.
2016. S123 Paper presented at 2016 International Conference Laser Optics, LO 2016, St. Petersburg, Russian Federation.
Research output: Other conference contribution › Paper, poster or abstract › Scientific

Parametric conversion in micrometer and submicrometer structured ferroelectric crystals by surface poling. / Busacca, Alessandro C.; Stivala, Salvatore; Curcio, Luciano; Assanto, Gaetano.
In: International Journal of Optics, Vol. 2012, 606892, 2012.
Research output: Contribution to journal › Review Article › Scientific › peer-review

Stimuli-responsive photonic polymer coatings. / Stumpel, Jelle E.; Broer, Dirk J.; Schenning, Albertus P H J.
In: Chemical Communications, Vol. 50, No. 100, 28.12.2014, p. 15839-15848.
Research output: Contribution to journal › Review Article › Scientific › peer-review