

Nonlinear guided waves: Preface

Assanto, G. & Smyth, N. F., 1 Dec 2016, In : Journal of Nonlinear Optical Physics and Materials. 25, 4, 1650041.
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, S. R., Lupo, D., Zangiabadi, A., Kymissis, I., Leppäniemi, J., Alastalo, A. & Berger, P. R., 1 Jul 2019, In : IEEE Electron Device Letters. 40, 7, p. 1112-1115 4 p.

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

10 kA Joints for HTS Roebel Cables

Murtomaeki, J. S., Kirby, G., van Nugteren, J., Contat, P. A., Fleiter, J., De Frutos, O. S., Pincot, F. O., DeRijk, G., Rossi, L., Ruuskanen, J., Stenvall, A. & Wolf, F., 2018, In : IEEE Transactions on Applied Superconductivity. 28, 3

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, J. S., Van Nugteren, J., Stenvall, A., Kirby, G. & Rossi, L., 1 Aug 2019, In : IEEE Transactions on Applied Superconductivity. 29, 5, 8642381.

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

3-D Numerical Modeling of AC Losses in Multifilamentary MgB₂ Wires

Escamez, G., Sirois, F., Lahtinen, V., Stenvall, A., Badel, A., Tixador, P., Ramdane, B., Meunier, G., Perrin-Bit, R. & Bruzek, C. É., 1 Apr 2016, In : IEEE Transactions on Applied Superconductivity. 26, 3, 4701907.

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

3GPP LTE-assisted Wi-Fi-direct: Trial implementation of live D2D technology

Pyattaev, A., Hosek, J., Johansson, K., Krkos, R., Gerasimenko, M., Masek, P., Ometov, A., Andreev, S., Sedy, J., Novotny, V. & Koucheryavy, Y., 1 Oct 2015, In : ETRI Journal. 37, 5, p. 877-887 11 p.

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, S., Jeong, S., Min, S., Hwang, M. W., Kim, S. T., Lim, K. & Tentzeris, E. M., Aug 2011, In : IEICE TRANSACTIONS ON ELECTRONICS. E94-C, 8, p. 1328-1331 4 p.

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

Absorption profile and femtosecond intraband relaxation of the intense upper Davydov component in oligothiophenes

Petelenz, P. & Kulig, W., Feb 2011, In : Physica Status Solidi B: Basic Solid State Physics. 248, 2, p. 412-415 4 p.

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., 1 Jun 2015, In : IEEE Transactions on Applied Superconductivity. 25, 3, 4000805.

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

Adaptive multiresolution method for MAP reconstruction in electron tomography

Acar, E., Peltonen, S. & Ruotsalainen, U., 1 Nov 2016, In : Ultramicroscopy. 170, p. 24-34 11 p.

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, T., Tarhasaari, T. & Izquierdo-Bermudez, S., 2020, In : IEEE Transactions on Applied Superconductivity. 30, 4, 5 p., 4703705.

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, J. & Ray, A. K., 1 Sep 2011, In : Physica B: Condensed Matter. 406, 17, p. 3285-3294 10 p.

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

A Fast Quench Protection System for High-Temperature Superconducting Magnets

van Nugteren, J., Murtomäki, J., Ruuskanen, J., Kirby, G., Hagen, P., DeRijk, G., Ten Kate, H., Bottura, L. & Rossi, L., Jan 2019, In : IEEE Transactions on Applied Superconductivity. 29, 1, 4700108.

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, V., Stenvall, A., Sirois, F. & Pellikka, M., 22 Apr 2015, In : Journal of Superconductivity and Novel Magnetism. 28, 8, p. 2345-2354 10 p.

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

AlGaAs/AlGaInP VECSELs with Direct Emission at 740-770 nm

Nechay, K., Kahle, H., Penttinen, J-P., Rajala, P., Tukiainen, A., Ranta, S. & Guina, M., 1 Aug 2019, In : IEEE Photonics Technology Letters. 31, 15, p. 1245-1248 4 p.

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, H., Louie, M. W., Singh, M. R., Li, L., Sanchez Casalongue, H. G., Ogasawara, H., Crumlin, E. J., Liu, Z., Bell, A. T., Nilsson, A. & Friebel, D., 4 Feb 2016, In : Journal of Physical Chemistry C. 120, 4, p. 2247-2253 7 p.

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

An ab initio study of PuO_{2±0.25}, UO_{2±0.25}, and U_{0.5}Pu_{0.5}O_{2±0.25}

Ma, L. & Ray, A. K., May 2011, In : European Physical Journal B. 81, 1, p. 103-113 11 p.

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, T., Chlachidze, G., Marchevsky, M., Bajas, H., Felice, H. & Stenvall, A., 1 Aug 2015, In : IEEE Transactions on Applied Superconductivity. 25, 4

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

Analytical and Numerical Methods to Estimate the Effective Mechanical Properties of Rutherford Cables

Zhao, J., Stenvall, A., Gao, Y. & Salmi, T., 1 Aug 2020, In : IEEE Transactions on Applied Superconductivity. 30, 5, 8400808.

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

Analytical computation of the demagnetizing energy of thin-film domain walls

Skaugen, A., Murray, P. & Laurson, L., 25 Sep 2019, In : Physical Review B. 100, 9, 094440.

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., May 2013, In : Optics and Lasers in Engineering. 51, 5, p. 633-636 4 p.

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

A new power-consumption optimization technique for two-stage operational amplifiers

Beck, S., Kim, S. T., Lee, M., Lim, K., Laskar, J. & Tentzeris, M. M., Jun 2011, In : IEICE TRANSACTIONS ON ELECTRONICS. E94-C, 6, p. 1138-1140 3 p.

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, X., Fan, Y. & Tentzeris, M. M., 1 Apr 2015, In : Microwave and Optical Technology Letters. 57, 4, p. 1016-1023 8 p.

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

Anisotropic and strain-dependent model of magnetostriction in electrical steel sheets

Belahcen, A., Singh, D., Rasilo, P., Martin, F., Ghalamestani, S. G. & Vandeveld, L., 1 Mar 2015, In : IEEE Transactions on Magnetics. 51, 3, 2001204.

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, J. E., Wouters, C., Herzer, N., Ziegler, J., Broer, D. J., Bastiaansen, C. W. M. & Schenning, A. P. H. J., 2014, In : Advanced Optical Materials. 2, 5, p. 459-464 6 p.

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

A Novel Enhanced-Performance Flexible RFID-Enabled Embroidered Wireless Integrated Module for Sensing Applications

Hasani, M., Vena, A., Sydänheimo, L., Tentzeris, M. M. & Ukkonen, L., 2015, In : IEEE Transactions on Components, Packaging and Manufacturing Technology. 5, 9, p. 1244-1252 9 p.

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

Architectures and codecs for real-time light field streaming

Kovács, P. T., Zare, A., Balogh, T., Bregovic, R. & Gotchev, A., 1 Jan 2017, In : Journal of Imaging Science and Technology. 61, 1, 010403.

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, M., Derreumaux, P. & Sterpone, F., 1 Jan 2015, In : Journal of Non-Crystalline Solids. 407, p. 494-501 8 p.

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., 1 Jan 2015, In : Thin Solid Films. 574, p. 196-206 11 p.

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., 4 May 2018, In : Semiconductor Science and Technology. 33, 6, 064003.

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, B., Salminen, T., Massera, J., Lastusaari, M. & Petit, L., 2018, In : Journal of Non-Crystalline Solids. 482, 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, S., Borah, D., Senthamaraiannan, R., Faulkner, C. C., Shaw, M. T., Gleeson, P., Holmes, J. D. & Morris, M. A., 1 Nov 2012, In : Thin Solid Films. 522, p. 318-323 6 p.

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, A., Growden, T. A., Berger, P. R., Loo, R., Vandervorst, W., Douhard, B. & Caymax, M., Mar 2012, In : IEEE Transactions on Electron Devices. 59, 3, p. 602-609 8 p.

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

Bringing High-Performance GaInNAsSb/GaAs SOAs to True Data Applications

Giannoulis, G., Korpijärvi, V.-M., Iliadis, N., Mäkelä, J., Viheriälä, J., Apostolopoulos, D., Guina, M. & Avramopoulos, H., 15 Aug 2015, In : IEEE Photonics Technology Letters. 27, 16, p. 1691-1694 4 p., 7113825.

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

Broadband finite-Difference Time-Domain modeling of plasmonic organic photovoltaics

Jung, K. Y., Yoon, W. J., Park, Y. B., Berger, P. R. & Teixeira, F. L., 2014, In : ETRI Journal. 36, 4, p. 654-661 8 p.

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

Bursty magnetic friction between polycrystalline thin films with domain walls

Rissanen, I. & Laurson, L., 4 Oct 2019, In : Physical Review B. 100, 14, 9 p., 144408.

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

Calculated electronic density of states and structural properties of tetrahedral amorphous carbon

Koivusaari, K. J., Rantala, T. T. & Leppävuori, S., Apr 2000, In : Diamond and Related Materials. 9, 3, p. 736-740 5 p.

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, E. & Onural, L., 2013, In : Journal of the Optical Society of America A: Optics Image Science and Vision. 30, 3, p. 527-536 10 p.

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

Capability assessment of inkjet printing for reliable RFID applications

Putala, J., Niittynen, J., Hannu, J., Myllymäki, S., Kunnari, E., Mäntysalo, M., Hagberg, J. & Jantunen, H., 1 Jun 2017, In : IEEE Transactions on Device and Materials Reliability. 17, 2, p. 281-290 10 p.

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

Cascaded crystalline raman lasers for extended wavelength coverage: Continuous-wave, third-stokes operation

Casula, R., Penttinen, J-P., Guina, M., Kemp, A. J. & Hastie, J. E., 20 Nov 2018, In : Optica. 5, 11, p. 1406-1413 8 p.

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, L., Laasonen, K. & Akola, J., 25 May 2017, In : Journal of Physical Chemistry C. 121, 20, p. 10876-10886 11 p.

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

Cavity formation in split ring resonators

Caglayan, H., Bulu, I., Loncar, M. & Ozbay, E., Dec 2008, In : Photonics and Nanostructures - Fundamentals and Applications. 6, 3-4, p. 200-204 5 p.

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

Chip-by-chip configurable interconnection using digital printing techniques

Mashayekhi, M., Winchester, L., Laurila, M-M., Mäntysalo, M., Ogier, S., Terés, L. & Carrabina, J., 6 Mar 2017, In : Journal of Micromechanics and Microengineering. 27, 4, 045009.

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., 2013, In : IEEE Transactions on Applied Superconductivity. 23, 3, 4002606.

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, M-M., Khorramdel, B. & Mäntysalo, M., 1 Mar 2017, In : IEEE Transactions on Electron Devices. 64, 3, p. 1217-1224 8 p.

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., 1 Feb 2020, In : Semiconductors. 54, 2, p. 263-267 5 p.
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., Jul 2011, In : Acta Materialia. 59, 12, p. 5032-5039 8 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Comparison of three light doses in the photodynamic treatment of actinic keratosis using mathematical modeling
Vignion-Dewalle, A. S., Betrouni, N., Tylcz, J. B., Vermandel, M., Mortier, L. & Mordon, S., 1 May 2015, In : JOURNAL OF BIOMEDICAL OPTICS. 20, 5, 058001.
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, N. D., Kapgate, B. P., Das, C., Das, A., Basu, D. & Debnath, S. C., 2016, In : JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. 80, 2, p. 548-559 12 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Composition dependent growth dynamics in molecular beam epitaxy of GaInNAs solar cells
Aho, A., Polojärvi, V., Korpjärvi, V. M., Salmi, J., Tukiainen, A., Laukkanen, P. & Guina, M., May 2014, In : Solar Energy Materials and Solar Cells. 124, p. 150-158 9 p.
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, V., Shevkunov, I., Petrov, N. V. & Egiazarian, K., 20 Jul 2017, In : Optica. 4, 7, p. 786-794 9 p.
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, B., Rasilo, P., Perkkio, L., Oksman, M., Hannukainen, A., Eirola, T. & Arkkio, A., 1 Dec 2014, In : IEEE Transactions on Magnetics. 50, 12, 8105909.
Research output: Contribution to journal > Article > Scientific > peer-review

Considerations on a Cost Model for High-Field Dipole Arc Magnets for FCC
Schoerling, D., Durante, M., Lorin, C., Martinez, T., Ruuskanen, J., Salmi, T., Sorbi, M., Tommasini, D. & Toral, F., 1 Jun 2017, In : IEEE Transactions on Applied Superconductivity. 27, 4, 4003105.
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, E. S., Parsekar, M., Das, A., Le, H. H., Wiessner, S., Stöckelhuber, K. W., Schmaucks, G. & Heinrich, G., 17 Sep 2015, In : Journal of Physical Chemistry C. 119, 37, p. 21723-21731 9 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Controlling the plasmon resonance via epsilon-near-zero multilayer metamaterials
Habib, M., Briukhanova, D., Das, N., Yildiz, B. C. & Caglayan, H., 2020, In : Nanophotonics. 9, 11, 8 p., 20200245.
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., 3 Nov 2017, In : Physical Review B. 96, 18, 184102.
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., 17 Oct 2016, In : Physical Review B. 94, 13, 134105.

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

Cysteine-tagged chimeric avidin forms high binding capacity layers directly on gold

Vikholm-Lundin, I., Auer, S., Paakkunainen, M., Määttä, J. A. E., Munter, T., Leppiniemi, J., Hytönen, V. P. & Tappura, K., Aug 2012, In : Sensors and Actuators B: Chemical. 171-172, p. 440-448 9 p.

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, H., Elovaara, J. & Korpinen, L., 2016, In : Progress In Electromagnetics Research M. 48, p. 55-66 12 p.

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

Deformation of lamellar γ -TiAl below the general yield stress

Edwards, T. E. J., Di Gioacchino, F., Goodfellow, A. J., Mohanty, G., Wehrs, J., Michler, J. & Clegg, W. J., 15 Jan 2019, In : Acta Materialia. 163, p. 122-139 18 p.

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

Demonstration of optical nonlinearity in InGaAsP/InP passive waveguides

Saeidi, S., Rasekh, P., Awan, K. M., Tüngen, A., Huttunen, M. J. & Dolgaleva, K., 1 Oct 2018, In : Optical Materials. 84, p. 524-530 7 p.

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, J., Lyly, M., Stenvall, A., Juntunen, R., Souc, J. & Mikkonen, R., 1 Feb 2015, In : IEEE Transactions on Applied Superconductivity. 25, 1

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

Designing materials with desired electromagnetic properties

Bulu, I., Caglayan, H. & Ozbay, E., Dec 2006, In : Microwave and Optical Technology Letters. 48, 12, p. 2611-2615 5 p.

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

Design of a Nb₃Sn 400 T/m quadrupole for the Future Circular Collider

Lorin, C., Simon, D., Felice, H., Rifflet, J. M., Salmi, T. & Schoerling, D., 2018, In : IEEE Transactions on Applied Superconductivity. 28, 3, 4004905.

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

Detection of 3,4-methylenedioxymethamphetamine (MDMA, ecstasy) by displacement of antibodies

Vikholm-Lundin, I., Auer, S. & Hellgren, A. C., 10 Aug 2011, In : Sensors and Actuators B: Chemical. 156, 1, p. 28-34 7 p.

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

Determination of beam incidence conditions based on the analysis of laser interference patterns

Wang, D., Wang, Z., Yue, Y., Yu, J., Tan, C., Li, D., Qiu, R. & Maple, C., 1 Nov 2015, In : Optik. 126, 21, p. 2902-2907 6 p.

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

Development of a new illumination procedure for photodynamic therapy of the abdominal cavity

Cuyon, L., Lesage, J. C., Betrouni, N. & Mordon, S., Mar 2012, In : JOURNAL OF BIOMEDICAL OPTICS. 17, 3, 038001.

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., 1 Jun 2016, In : IEEE Transactions on Applied Superconductivity. 26, 4, 400207.

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

Diffusion on aluminum-cluster surfaces and the cluster growth

Valkealahti, S. & Manninen, M., 1 Jan 1998, In : Physical Review B - Condensed Matter and Materials Physics. 57, 24, p. 15533-15540 8 p.

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

Dilute nitride triple junction solar cells for space applications: Progress towards highest AMO efficiency

Aho, A., Isoaho, R., Tukiainen, A., Gori, G., Campesato, R. & Guina, M., Sep 2018, In : Progress in Photovoltaics: Research and Applications. 26, 19, p. 740-744 5 p.

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., 1979, In : Journal of physics c-Solid state physics. 12, 21, 001.

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, L., Fagerlund, S., Massera, J. & Björkvik, L., 2016, In : Journal of Non-Crystalline Solids. p. 41-46 6 p.

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., 1 Mar 2015, In : IEEE Journal of Photovoltaics. 5, 2, p. 633-640 8 p.

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

Dynamic speckle analysis with smoothed intensity-based activity maps

Stoykova, E., Berberova, N., Kim, Y., Nazarova, D., Ivanov, B., Gotchev, A., Hong, J. & Kang, H., 1 Jun 2017, In : Optics and Lasers in Engineering. 93, p. 55-65 11 p.

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

Effect of heat-treatment on the upconversion of $\text{NaYF}_4:\text{Yb}^{3+}, \text{Er}^{3+}$ nanocrystals containing silver phosphate glass

Ojha, N., Bogdan, M., Galatus, R. & Petit, L., 15 Sep 2020, In : Journal of Non-Crystalline Solids. 544, 120243.

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, H., Sariola-Leikas, E., Efimov, A. & Tkachenko, N. V., 21 Apr 2016, In : Journal of Physical Chemistry C. 120, 13, p. 7044-7051 8 p.

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

Effect of incorporation of CdS NPs on performance of PTB7: PCBM organic solar cells

Sharma, R., Bhalerao, S. & Gupta, D., 1 Jun 2016, In : Organic Electronics: physics, materials, applications. 33, p. 274-280 7 p.

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

Kapgate, B. P., Das, C., Das, A., Basu, D., Reuter, U. & Heinrich, G., Sep 2012, In : JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY. 63, 3, p. 501-509 9 p.

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

Effect of the addition of Al_2O_3 , TiO_2 and ZnO on the thermal, structural and luminescence properties of Er^{3+} -doped phosphate glasses

Lopez-Iscoa, P., Petit, L., Massera, J., Janner, D., Boetti, N. G., Pugliese, D., Fiorilli, S., Novara, C., Giorgis, F. & Milanese, D., 15 Mar 2017, In : Journal of Non-Crystalline Solids. 460, p. 161-168 8 p.

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., Gluchowski, P., Lastusaari, M., Petit, L., Hölsä, J. & Hupa, L., 1 Feb 2016, In : *Optical Materials*. 52, p. 56-61 6 p.

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, E.-M., Polojärvi, V., Schramm, A., Tukiainen, A., Aho, A., Zhang, W., Puustinen, J., Salmi, J. & Guina, M., 1 Feb 2016, In : *Optical Materials*. 52, p. 177-180 4 p.

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., 24 Aug 2015, In : *Journal of Electron Spectroscopy and Related Phenomena*. 205, p. 6-9 4 p.

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, N. A., Isokuortti, J., Efimov, A., Vuorimaa-Laukkanen, E., Tkachenko, N. V. & Laaksonen, T., 2018, In : *Chemical Communications*. 54, 99, p. 14029-14032 4 p.

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

Electrical Contacts in SOI MEMS Using Aerosol Jet Printing

Khorrandel, B., Torkkeli, A. & Mäntysalo, M., 2017, In : *IEEE Journal of the Electron Devices Society*. 6, 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., 2020, In : *Semiconductor Science and Technology*. 35, 2, 025009.

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

Electro-optic steering of nematicons

Assanto, G., Piccardi, A., Barboza, R. & Alberucci, A., 2012, In : *Photonics Letters of Poland*. 4, 1, p. 2-4 3 p.

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

Electro-optic steering of random laser emission in liquid crystals

Assanto, G., Perumbilavil, S., Piccardi, A. & Kauranen, M., 2018, In : *Photonics Letters of Poland*. 10, 4, p. 103-105 3 p.

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., 20 Aug 2015, In : *Journal of Physical Chemistry C*. 119, 33, p. 18835-18842 8 p.

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, T. & Schoerling, D., Jun 2019, In : *IEEE Transactions on Applied Superconductivity*. 29, 4

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

Engineering of Chern insulators and circuits of topological edge states

Minarelli, E. L., Poyhönen, K., Van Dalum, G. A. R., Ojanen, T. & Fritz, L., 10 Apr 2019, In : *Physical Review B*. 99, 16, 165413.

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

ESD qualification data used as the basis for building electrostatic discharge protected areas

Tamminen, P., Viheriäkoski, T., Sydänheimo, L. & Ukkonen, L., 1 Oct 2015, In : Journal of Electrostatics. 77, p. 174-181 8 p., 3024.

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

Essential Measurements for Finite Element Simulations of Magnetostrictive Materials

Poutala, A., Kovanen, T. & Kettunen, L., 2018, In : IEEE Transactions on Magnetics. 54, 1, 7200107.

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, M., Winchester, L., Evans, L., Pease, T., Laurila, M-M., Mäntysalo, M., Ogier, S., Teres, L. & Carrabina, J., 1 Mar 2016, In : IEEE Transactions on Electron Devices. 63, 3, p. 1246-1253 8 p.

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

Evaluation of crushing strength of spray-dried MgAl₂O₄ granule beds

Kanerva, U., Suhonen, T., Lagerbom, J. & Levänen, E., 1 Aug 2015, In : Ceramics International. 41, 7, p. 8494-8500 7 p.

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, R. & Mäntysalo, M., 1 Jul 2018, In : Microelectronics Reliability. 86, p. 54-65 12 p.

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., Galeti, H. V. A., Henini, M., Gobato, Y. G. & Guina, M., 17 Jul 2018, In : Semiconductor Science and Technology. 33, 8, 084002.

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

Experimental realization of wave-packet dynamics in cyclic quantum walks

Nejadsattari, F., Zhang, Y., Bouchard, F., Larocque, H., Sit, A., Cohen, E., Fickler, R. & Karimi, E., 20 Feb 2019, In : Optica. 6, 2, p. 174-180 7 p.

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

Exploration of Two Layer Nb₃Sn Designs of the Future Circular Collider Main Quadrupoles

Lorin, C., Fleiter, J., Salmi, T. & Schoerling, D., 1 Aug 2019, In : IEEE Transactions on Applied Superconductivity. 29, 5, 4001005.

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. N. & Zharnikov, M., 27 Nov 2013, In : Journal of Physical Chemistry C. 117, 47, p. 24883-24893 11 p.

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. N. & Zharnikov, M., 13 Feb 2014, In : Journal of Physical Chemistry C. 118, 6, p. 3093-3101 9 p.

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. Y., Egiazarian, K. & Petrov, N. V., 2020, In : Quantum Electronics. 50, 7, p. 679-682 4 p.

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

FEM for directly coupled magneto-mechanical phenomena in electrical machines

Fonteyn, K., Belahcen, A., Kouhia, R., Rasilo, P. & Arkkio, A., Aug 2010, In : IEEE Transactions on Magnetics. 46, 8, p. 2923-2926 4 p.

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, G. A., Van Nugteren, J., Bajas, H., Benda, V., Ballarino, A., Bajko, M., Bottura, L., Broekens, K., Canale, M., Chiuchio, A., Gentini, L., Peray, N., Perez, J. C., De Rijk, G., Rijllart, A., Rossi, L., Murtomaeki, J., Mazet, J., Pincot, F. O., Volpini, G., Durante, M., Fazilleau, P., Lorin, C., Stenvall, A., Goldacker, W., Kario, A. & Usoskin, A., 1 Jun 2017, In : IEEE Transactions on Applied Superconductivity. 27, 4, 4003307.

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

First principles prediction of the solar cell efficiency of chalcopyrite materials AgMX_2 (M=In, Al; X=S, Se, Te)

Dongho-Nguimdo, G. M., Igumbor, E., Zambou, S. & Joubert, D. P., 1 Dec 2019, In : Computational Condensed Matter. 21, e00391.

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Fluid flow simulations meet high-speed video: Computer vision comparison of droplet dynamics

Kulju, S., Riegger, L., Koltay, P., Mattila, K. & Hyv\u00e4luoma, J., 15 Jul 2018, In : Journal of Colloid and Interface Science. 522, p. 48-56 9 p.

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Fluorimetric oxygen sensor with an efficient optical read-out for in vitro cell models

V\u00e4lim\u00e4ki, H., Verho, J., Kreutzer, J., Kattiparambil Rajan, D., Ryn\u00e4nen, T., Pekkanen-Mattila, M., Ahola, A., Tappura, K., Kallio, P. & Leikkala, J., 1 Oct 2017, In : Sensors and Actuators B: Chemical. 249, p. 738-746 9 p.

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., 2015, In : Quantum Electronics. 45, 7, p. 628-634 7 p.

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

Full-field mode sorter using two optimized phase transformations for high-dimensional quantum cryptography

Fickler, R., Bouchard, F., Giese, E., Grillo, V., Leuchs, G. & Karimi, E., 2020, In : Journal of Optics (United Kingdom). 22, 2, 7 p., 024001.

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

Fundamental gaps of quantum dots on the cheap

Guandalini, A., Rozzi, C. A., R\u00e4s\u00e4nen, E. & Pittalis, S., 25 Mar 2019, In : Physical Review B. 99, 12, 125140.

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GaInAsSb/AlGa(In)AsSb type I quantum wells emitting in 3 μm range for application in superluminescent diodes

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

Generalized slip transformations and air-gap harmonics in field models of electrical machines

R\u00e4is\u00e4nen, V., Suuriniemi, S. & Kettunen, L., 1 Sep 2016, In : IEEE Transactions on Magnetics. 52, 9, 8107708.

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

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Generation of bound states of pulses in a soliton laser with complex relaxation of a saturable absorber

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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, J., Härkönen, A., Leino, I. & Guina, M., 1 Nov 2017, In : IEEE Photonics Technology Letters. 29, 21, p. 1816-1819 4 p.

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

Geometric Structure and Chemical Ordering of Large AuCu Clusters: A Computational Study

Goh, J-Q., Akola, J. & Ferrando, R., 25 May 2017, In : Journal of Physical Chemistry C. 121, 20, p. 10809-10816 8 p.

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

Geometry Analysis in Screen-Printed Stretchable Interconnects

Mosallaei, M., Jokinen, J., Honkanen, M., Iso-Ketola, P., Vippola, M., Vanhala, J., Kanerva, M. & Mantysalo, M., Aug 2018, In : IEEE Transactions on Components, Packaging and Manufacturing Technology. 8, 8, p. 1344-1352

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

Germanium-on-glass solar cells: Fabrication and characterization

Sorianello, V., Colace, L., Maragliano, C., Fulgoni, D., Nash, L. & Assanto, G., 2013, In : Optical Materials Express. 3, 2, p. 216-228 13 p.

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Ghost imaging in the time domain

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Goos-Hänchen and Imbert-Fedorov shifts for epsilon-near-zero materials

Nieminen, A., Marini, A. & Ornigotti, M., 28 Jan 2020, In : Journal of Optics. 22, 3, 035601.

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

Graphene-based tunable plasmon induced transparency in gold strips

Habib, M., Rashed, A. R., Ozbay, E. & Caglayan, H., 1 Apr 2018, In : Optical Materials Express. 8, 4, p. 1069-1074 6 p.

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

Hafnium oxide thin films as a barrier against copper diffusion in solar absorbers

Kotilainen, M., Krumpolec, R., Franta, D., Souček, P., Homola, T., Cameron, D. C. & Vuoristo, P., 1 Jul 2017, In : Solar Energy Materials and Solar Cells. 166, p. 140-146 7 p.

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

Halogen bonding stabilizes a cis-azobenzene derivative in the solid state: A crystallographic study

Saccone, M., Siiskonen, A., Fernandez-Palacio, F., Priimägi, A., Terraneo, G., Resnati, G. & Metrangolo, P., 1 Apr 2017, In : ACTA CRYSTALLOGRAPHICA SECTION B : STRUCTURAL SCIENCE, CRYSTAL ENGINEERING AND MATERIALS. 73, 2, p. 227-233 7 p.

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, A., Cavallo, G., Forni, A., Gorynsztejn-Leben, M., Kaivola, M., Metrangolo, P., Milani, R., Shishido, A., Pilati, T., Resnati, G. & Terraneo, G., 20 Jun 2012, In : Advanced Functional Materials. 22, 12, p. 2572-2579 8 p.

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., 2020, In : Optics and laser technology. 133, 6 p., 106526.

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, A., Freitas, A. L. M., Carvalho, W. M., Salminen, T., Niemi, T. & Souza, F. L., 2020, In : Journal of Physical Chemistry C.

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

High-dimensional quantum gates using full-field spatial modes of photons

Brandt, F., Hiekkamäki, M., Bouchard, F., Huber, M. & Fickler, R., 20 Feb 2020, In : Optica. 7, 2, p. 98-107 10 p.

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

Highly efficient charge separation in model Z-scheme $\text{TiO}_2/\text{TiSi}_2/\text{Si}$ photoanode by micropatterned titanium silicide interlayer

Hannula, M., Ali-Löyty, H., Lahtonen, K., Saari, J., Tukiainen, A. & Valden, M., 1 Aug 2019, In : Acta Materialia. 174, p. 237-245 9 p.

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., 2016, In : Journal of Laser Applications. 28, 1, 012011.

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

High-resolution coded-aperture design for compressive X-ray tomography using low resolution detectors

Mojica, E., Pertuz, S. & Arguello, H., 2017, In : Optics Communications. 404, p. 103-109

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

Hot spot temperature in an HTS Coil: Simulations with MITs and finite element method

Härö, E., Stenvall, A., Van Nugteren, J. & Kirby, G., 1 Apr 2015, In : IEEE Transactions on Applied Superconductivity. 25, 2

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How well can we predict cluster fragmentation inside a mass spectrometer?

Passananti, M., Zapadinsky, E., Zanca, T., Kangasluoma, J., Myllys, N., Rissanen, M. P., Kurtén, T., Ehn, M., Attoui, M. & Vehkamäki, H., 2019, In : Chemical Communications. 55, 42, p. 5946-5949 4 p.

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Hyperspectral phase imaging based on denoising in complex-valued eigensubspace

Shevkunov, I., Katkovnik, V., Claus, D., Pedrini, G., Petrov, N. V. & Egiazarian, K., 1 Apr 2020, In : Optics and Lasers in Engineering. 127, 10 p., 105973.

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

ICED - Inductively Coupled Energy Dissipater for Future High Field Accelerator Magnets

Murtomäki, J. S., van Nugteren, J., Kirby, G., DeRijk, G., Rossi, L. & Stenvall, A., Dec 2018, In : IEEE Transactions on Applied Superconductivity. 28, 8, 4009015.

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, P., Abdallah, A. A. E., Belahcen, A., Arkkio, A. & Dupré, L., 1 Mar 2015, In : IEEE Transactions on Magnetics. 51, 3, 2001304.

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

Importance of iron-loss modeling in simulation of wound-field synchronous machines

Rasilo, P., Belahcen, A. & Arkkio, A., 2012, In : IEEE Transactions on Magnetics. 48, 9, p. 2495-2504 10 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Improvements in the electromechanical properties of stretchable interconnects by locally tuning the stiffness

Mosallaei, M., Di Vito, D., Khorramdel, B. & Mäntysalo, M., 2020, In : Flexible and Printed Electronics. 5, 1, 015004.
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, V., Aho, A., Tukiainen, A., Raappana, M., Aho, T., Schramm, A. & Guina, M., 1 May 2016, In : Solar Energy Materials and Solar Cells. 149, p. 213-220 8 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Influence of environmental conditions on EMF levels in a span of overhead transmission lines

Okun, O., Kravchenko, Y. & Korpinen, L., 2016, In : Progress in Electromagnetics Research C. 63, p. 163-171 9 p.
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., 2016, In : Solar Energy Materials and Solar Cells. 145, p. 323-332 10 p.
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, K., Boetti, N. G., Koponen, J., Milanese, D. & Petit, L., Mar 2014, In : Optical Materials. 36, 5, p. 926-931 6 p.
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., Laihinne, T., Salminen, T., Lastusaari, M. & Petit, L., Jun 2018, In : Ceramics International. 44, 10, 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, B. S., Fang, Y., Kim, S., Le, T., Goodwin, W. B., Sandhage, K. H. & Tentzeris, M. M., Sep 2013, In : Electronic Materials Letters. 9, 5, p. 669-676 8 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Inkjet printing of radio frequency electronics: Design methodologies and application of novel nanotechnologies

Le, T., Lin, Z., Vyas, R., Lakafosis, V., Yang, L., Traill, A., Tentzeris, M. M. & Wong, C. P., 2013, In : Journal of Electronic Packaging. 135, 1, 011007.
Research output: Contribution to journal > Article > Scientific > peer-review

Instability of cuboctahedral copper clusters

Valkealahti, S. & Manninen, M., 1 Jan 1992, In : Physical Review B. 45, 16, p. 9459-9462 4 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Interfacial design and structure of protein/polymer films on oxidized AlGaN surfaces

Gupta, S. K., Wu, H. H., Kwak, K. J., Casal, P., Nicholson, T. R., Wen, X., Anisha, R., Bhushan, B., Berger, P. R., Lu, W., Brillson, L. J. & Lee, S. C., 26 Jan 2011, In : Journal of Physics D: Applied Physics. 44, 3, 34010.
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, A. K., Perumbilavil, S., Joseph, S., Kala, M. S., Saha, A., Narayanan, R. A., Hameed, N., Thomas, S., Oluwafemi, O. S. & Kalarikkal, N., 1 Nov 2017, In : Optical Materials. 73, p. 695-705 11 p.

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

Investigating the metallic behavior of Na clusters using site-specific polarizabilities

Ma, L., Jackson, K. A., Wang, J., Horoi, M. & Jellinek, J., 24 Jan 2014, In : Physical Review B. 89, 3, 035429.

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, S., Nikkanen, J-P., Huttunen-Saarivirta, E. & Levänen, E., 30 Sep 2017, In : Thin Solid Films. 638, p. 410-419 10 p.

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

Investigation of REBCO Roebel Cable Irreversible Critical Current Degradation Under Transverse Pressure

Murtomäki, J. S., Kouhia, R., Stenvall, A., Bottura, L., Kirby, G., van Nugteren, J., DeRijk, G. & Rossi, L., Jun 2018, In : IEEE Transactions on Applied Superconductivity. 28, 4, 4802506.

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

Iron losses, magnetoelasticity and magnetostriction in ferromagnetic steel laminations

Rasilo, P., Singh, D., Belahcen, A. & Arkkio, A., 2013, In : IEEE Transactions on Magnetics. 49, 5, p. 2041-2044 4 p.

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Irradiation promoted exchange reaction with disulfide substituents

Khan, M. N. & Zharnikov, M., 18 Jul 2013, In : Journal of Physical Chemistry C. 117, 28, p. 14534-14543 10 p.

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

Ärrälä, M., Hafiz, H., Mou, D., Wu, Y., Jiang, R., Riedemann, T., Lograsso, T. A., Barbiellini, B., Kaminski, A., Bansil, A. & Lindroos, M., 27 Oct 2016, In : Physical Review B. 94, 15, 7 p., 155144.

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., 2018, In : Solar Energy Materials and Solar Cells. 181, 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, U. A., Kwaśny, M., Jung, P. S., Trippenbach, M., Assanto, G. & Karpierz, M. A., 2016, In : Photonics Letters of Poland. 8, 1, p. 11-13 3 p.

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

Liquid crystal light valves: A versatile platform for nematicons

Assanto, G., Piccardi, A., Alberucci, A., Residori, S. & Bertolozzo, U., 2009, In : Photonics Letters of Poland. 1, 4, p. 151-153 3 p.

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., 24 Mar 2015, In : Physical Review B. 91, 11, 8 p., 115431.

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

Long-Range Observation of Exciplex Formation and Decay Mediated by One-Dimensional Bridges

Baek, J., Umeyama, T., Stranius, K., Yamada, H., Tkachenko, N. V. & Imahori, H., 29 Jun 2017, In : Journal of Physical Chemistry C. 121, 25, p. 13952-13961 10 p.

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

Low-temperature germanium thin films on silicon

Sorianello, V., Colace, L., Armani, N., Rossi, F., Ferrari, C., Lazzarini, L. & Assanto, G., 1 Sep 2011, In : Optical Materials Express. 1, 5, p. 856-865 10 p.

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

Magnetic and mechanical design of a 16 T common coil dipole for FCC

Toral, F., Munilla, J. & Salmi, T., 2018, In : IEEE Transactions on Applied Superconductivity. 28, 3, 4004305.

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

Magnetic non-contact friction from domain wall dynamics actuated by oscillatory mechanical motion

Rissanen, I. & Laurson, L., 13 Aug 2019, In : Journal of Physics D: Applied Physics. 52, 44, 445002.

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, T., Tuukkanen, S., Cameron, D. C., Simonen, J. & Toppari, J. J., 9 Jul 2015, In : Organic Electronics. 25, p. 317-323 7 p.

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

Mechanical behavior of a 16 T FCC dipole magnet during a quench

Zhao, J., Stenvall, A., Salmi, T., Gao, Y. & Lorin, C., 2017, In : IEEE Transactions on Applied Superconductivity. 27, 6, 4004407.

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

Mechanical characterization of pore-graded bioactive glass scaffolds produced by robocasting

Barberi, J., Nommeots-Nomm, A., Fiume, E., Verné, E., Massera, J. & Baino, F., 2019, In : Biomedical Glasses. 5, 1, p. 140-147 8 p.

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, J. S., Van Nugteren, J., Kirby, G., Rossi, L., Ruuskanen, J. & Stenvall, A., 1 Jun 2017, In : IEEE Transactions on Applied Superconductivity. 27, 4, 4100405.

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, J., Prioli, M., Stenvall, A., Salmi, T., Gao, Y., Caiffi, B., Lorin, C., Marinozzi, V., Farinon, S. & Sorbi, M., 15 Jul 2018, In : Physica C: Superconductivity and its Applications. 550, p. 27-34 8 p.

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, A., Parkkila, P., Viitala, T., Lajunen, T., Mobarak, E., Licari, G., Cramariuc, O., Vauthey, E., Róg, T. & Bunker, A., 11 Apr 2018, In : Chemical Communications. 54, 28, p. 3440-3443 4 p.

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., Apr 2011, In : Microelectronic Engineering. 88, 4, p. 492-495 4 p.

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, M., Lagerbom, J., Solismaa, S., Honkanen, M., Ismailov, A., Räisänen, M. L., Huttunen-Saarivirta, E., Levänen, E. & Kivikytö-Reponen, P., Mar 2019, In : Ceramics International. 45, 4, 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, L., Ali-Löyty, H., Khan, R., Saari, J., Tkachenko, N. V. & Valden, M., 2020, In : Journal of Physical Chemistry C. 124, 24, p. 13094-13101 8 p.

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, S., Schulte, L., Borah, D., Hulkkonen, H., Ndoni, S., Salminen, T., Senthamarayanan, R., Morris, M. A. & Niemi, T., 15 May 2018, In : Microelectronic Engineering. 192, p. 1-7 7 p.

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., Dec 2014, In : Optical Fiber Technology. 20, 6, p. 593-609 17 p.

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

Multistep Bloch-line-mediated Walker breakdown in ferromagnetic strips

Hütner, J., Herranen, T. & Laurson, L., 24 May 2019, In : Physical Review B. 99, 17, 174427.

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

Narrow-linewidth 780 nm DFB lasers fabricated using nanoimprint lithography

Virtanen, H., Uusitalo, T., Karjalainen, M., Ranta, S., Viheriala, J. & Dumitrescu, M., 2018, In : IEEE Photonics Technology Letters. 30, 1, p. 51-54

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

Near-infrared photodetectors in evaporated ge: Characterization and TCAD simulations

Sorianello, V., De Iacovo, A., Colace, L. & Assanto, G., 2013, In : IEEE Transactions on Electron Devices. 60, 6, p. 1995-2000 6 p., 6515586.

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., 1 Jan 1985, In : Physical Review B. 32, 11, p. 7561-7563 3 p.

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

Near-threshold high spin amplification in a 1300 nm GaInNAs spin laser

Cemlyn, B., Adams, M., Harbord, E., Li, N., Henning, I. D., Oulton, R., Korpijärvi, V. M. & Guina, M., 1 Aug 2018, In : Semiconductor Science and Technology. 33, 9, 094005.

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

Non-destructive and wireless monitoring of biodegradable polymers

Salpavaara, T., Hänninen, A., Antniemi, A., Lekkala, J. & Kellomäki, M., 2017, In : Sensors and Actuators B: Chemical. 251, p. 1018-1025

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

Nonlinear optical activity effects in complex anisotropic three-dimensional media

Huttunen, M. J., Partanen, M., Bautista, G., Chu, S-W. & Kauranen, M., 2015, In : Optical Materials Express. 5, 1, p. 11-21 11 p.

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

Nonlocal soliton scattering in random potentials

Piccardi, A., Residori, S. & Assanto, G., 1 Jul 2016, In : Journal of Optics. 18, 7, 5 p., 07LT01.

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

Novel borosilicate bioactive scaffolds with persistent luminescence

Del Cerro, P. R., Teittinen, H., Norrbo, I., Lastusaari, M., Massera, J. & Petit, L., 2020, In : Biomedical Glasses. 6, 1, p. 1-9 9 p.

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., 1 Aug 2016, In : Journal of Non-Crystalline Solids. 445-446, p. 40-44 5 p.

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

Observation of cavity structures in composite metamaterials

Caglayan, H. & Özbay, E., 2010, In : Journal of Nanophotonics. 4, 1, 041790.

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

Observation of off-axis directional beaming via subwavelength asymmetric metallic gratings

Caglayan, H., Bulu, I. & Ozbay, E., 2009, In : Journal of Physics D: Applied Physics. 42, 4, 045105.

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., 16 Sep 2019, In : Nature Photonics.

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., Korpijärvi, V. M. & Guina, M., 20 Oct 2015, In : Physical Review B. 92, 16, 165311.

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

On the limit of superhydrophobicity: Defining the minimum amount of TiO₂ nanoparticle coating

Haapanen, J., Aromaa, M., Teisala, H., Juuti, P., Tuominen, M., Sillanpää, M., Stepien, M., Saarinen, J. J., Toivakka, M., Kuusipalo, J. & Mäkelä, J. M., 2019, In : Materials Research Express. 6, 3, 035004.

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

Open Material Property Library With Native Simulation Tool Integrations - MASTO

Stenvall, A. & Lahtinen, V., 2018, In : IEEE Transactions on Applied Superconductivity.

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

Optical power monitors in Ge monolithically integrated on SOI chips

Colace, L., Soriano, V., Romagnoli, M., Socci, L. & Assanto, G., Apr 2011, In : Microelectronic Engineering. 88, 4, p. 514-517 4 p.

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., Ukelge, M. O., Donmez, O., Erol, A., Gumus, C., Alghamdi, H., Galeti, H. V. A., Henini, M., Schmidbauer, M., Hilska, J., Puustinen, J. & Guina, M., 13 Nov 2018, In : Semiconductor Science and Technology. 33, 12, 124015.

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

Optimization of an E3SPreSSO Energy-Extraction System for High-Field Superconducting Magnets

Ruuskanen, J., Stenvall, A., Van Nugteren, J. & Lahtinen, V., 1 Apr 2018, In : IEEE Transactions on Applied Superconductivity. 28, 3, 4700805.

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

Optimization of convectively cooled heat sinks

Lampio, K. & Karvinen, R., 2017, In : Microelectronics Reliability. 79, p. 473-479

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

Paraxial light beams in structured anisotropic media

Jisha, C. P. & Alberucci, A., 1 Nov 2017, In : Journal of the Optical Society of America A: Optics and Image Science, and Vision. 34, 11, p. 2019-2024 6 p.

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

Passive resonance sensor based method for monitoring particle suspensions

Salpavaara, T., Järveläinen, M., Seppälä, S., Yli-Hallila, T., Verho, J., Vilkkio, M., Leikkala, J. & Levänen, E., 8 Jun 2015, In : Sensors and Actuators B: Chemical. 219, p. 324-330 7 p.

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., 11 Mar 2015, In : Physical Review B. 91, 11, 115305.

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., 2012, In : Progress in Electromagnetics Research B. 43, p. 53-72 20 p.

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., Jan 2019, In : Optical Materials. 87, 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, S., Kannisto, M., Nikkanen, J.-P., Huttunen-Saarivirta, E., Karp, M. & Levänen, E., 1 Oct 2016, In : Thin Solid Films. 616, p. 842-849 8 p.

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

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

Shimamura, A., Priimagi, A., Mamiya, J. I., Kinoshita, M., Ikeda, T. & Shishido, A., Sep 2011, In : Journal of Nonlinear Optical Physics and Materials. 20, 4, p. 405-413 9 p.

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

Photoinduced Electron Injection from Zinc Phthalocyanines into Zinc Oxide Nanorods: Aggregation Effects

Virkki, K., Hakola, H., Urbani, M., Tejerina, L., Ince, M., Martínez-Díaz, M. V., Torres, T., Golovanova, V., Golovanov, V. & Tkachenko, N. V., 4 May 2017, In : Journal of Physical Chemistry C. 121, 17, p. 9594-9605 12 p.

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

Photoinduced Electron Transfer in CdSe/ZnS Quantum Dot-Fullerene Hybrids

Virkki, K., Demir, S., Lemmetyinen, H. & Tkachenko, N. V., 23 Jul 2015, In : Journal of Physical Chemistry C. 119, 31, p. 17561-17572 12 p.

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

Photoinduced surface patterning of azobenzene-containing supramolecular dendrons, dendrimers and dendronized polymers

Vapaavuori, J., Priimagi, A., Soininen, A. J., Canilho, N., Kasëmi, E., Ruokolainen, J., Kaivola, M. & Ikkala, O., 2013, In : Optical Materials Express. 3, 6, p. 711-722 12 p.

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

Photophysical properties of porphyrin dimer-single-walled carbon nanotube linked systems

Baek, J., Umeyama, T., Mizuno, S., Tkachenko, N. V. & Imahori, H., 2017, In : Journal of Physical Chemistry C. 121, 39

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, R., Aho, A., Tukiainen, A., Aho, T., Raappana, M., Salminen, T., Reuna, J. & Guina, M., 15 Jun 2019, In : Solar Energy Materials and Solar Cells. 195, p. 198-203 6 p.

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

Physics and applications of photonic crystals

Ozbay, E., Bulu, I., Aydin, K., Caglayan, H. & Guven, K., Oct 2004, In : Photonics and Nanostructures - Fundamentals and Applications. 2, 2, p. 87-95 9 p.

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Physisorption of benzene on a tin dioxide surface: Van der Waals interaction

Viitala, M., Kuisma, M. & Rantala, T. T., 8 Feb 2012, In : Physical Review B. 85, 8, p. 1-5 5 p., 085412.

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

Piezoresistive natural rubber-multiwall carbon nanotube nanocomposite for sensor applications

Selvan, N. T., Eshwaran, S. B., Das, A., Stöckelhuber, K. W., Wießner, S., Pötschke, P., Nando, G. B., Chervanyov, A. I. & Heinrich, G., 1 Mar 2016, In : Sensors and Actuators, A: Physical. 239, p. 102-113 12 p.

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., 4 May 2011, In : Journal of Physics D: Applied Physics. 44, 17, 174012.

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

Plasmon lifetime enhancement in a bright-dark mode coupled system

Yildiz, B. C., Bek, A. & Tasgin, M. E., 16 Jan 2020, In : Physical Review B. 101, 3, 8 p., 035416.

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

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

Aihara, Y., Kinoshita, M., Wang, J., Mamiya, J. I., Priimagi, A. & Shishido, A., Nov 2013, In : Advanced Optical Materials. 1, 11, p. 787-791 5 p.

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

Precipitate formation in aluminium alloys: Multi-scale modelling approach

Kleiven, D. & Akola, J., 15 Aug 2020, In : Acta Materialia. 195, p. 123-131 9 p.

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, Z., Le, T., Song, X., Yao, Y., Li, Z., Moon, K. S., Tentzeris, M. M. & Wong, C. P., 2013, In : Journal of Electronic Packaging. 135, 1, 011001.

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

Printable and flexible macroporous organosilica film with high protein adsorption capacity

Heikkinen, J. J., Kivimäki, L., Hytönen, V. P., Kulomaa, M. S. & Hormi, O. E. O., 1 Jan 2012, In : Thin Solid Films. 520, 6, p. 1934-1937 4 p.

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

Programming Photoresponse in Liquid Crystal Polymer Actuators with Laser Projector

Wani, O. M., Zeng, H., Wasylczyk, P. & Priimagi, A., 2018, In : Advanced Optical Materials. 6, 1, 1700949.

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Progress on HL-LHC Nb₃Sn Magnets

Todesco, E., Annarella, M., Ambrosio, G., Apollinari, G., Ballarino, A., Bajas, H., Bajko, M., Bordini, B., Bossert, R., Bottura, L., Cavanna, E., Cheng, D., Chlachidze, G., De Rijk, G., Dimarco, J., Ferracin, P., Fleiter, J., Guinchard, M., Hafalia, A., Holik, E., Izquierdo Bermudez, S., Lackner, F., Marchevsky, M., Loeffler, C., Nobrega, A., Perez, J. C., Prestemon, S., Ravaioli, E., Rossi, L., Sabbi, G., Salmi, T., Savary, F., Schmalzle, J., Stoynev, S., Strauss, T., Tartaglia,

M., Vallone, G., Velev, G., Wanderer, P., Wang, X., Willering, G. & Yu, M., 1 Jun 2018, In : IEEE Transactions on Applied Superconductivity. 28, 4, 4008809.

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

Properties of nematicons in low-birefringence nematic liquid crystals

Kwaśny, M., Laudyn, U. A., Sala, F. A., Piccardi, A., Alberucci, A., Karpierz, M. A. & Assanto, G., 2013, In : Photonics Letters of Poland. 5, 1, p. 8-10 3 p.

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., 1 Jun 2016, In : IEEE Transactions on Applied Superconductivity. 26, 4, 4003605.

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, V., Bellomo, G., Caiffi, B., Fabbriatore, P., Farinon, S., Salmi, T., Sorbi, M., Stenvall, A. & Volpini, G., 1 Jun 2017, In : IEEE Transactions on Applied Superconductivity. 27, 4, 4702505.

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

Quench Protection Study of the Updated MQXF for the LHC Luminosity Upgrade (HiLumi LHC)

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Radiation properties of sources inside photonic crystals

Bulu, I., Caglayan, H. & Ozbay, E., 15 May 2003, In : Physical Review B - Condensed Matter and Materials Physics. 67, 20

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Rapid and facile synthesis of graphene oxide quantum dots with good linear and nonlinear optical properties

Sakho, E. H. M., Oluwafemi, O. S., Perumbilavil, S., Philip, R., Kala, M. S., Thomas, S. & Kalarikkal, N., 2016, In : Journal of Materials Science: Materials in Electronics. 27, 10, 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, S., Koho, T., Uusi-Kerttula, H., Vesikari, T., Blazevic, V. & Hytönen, V. P., 31 Dec 2015, In : Sensors and Actuators B: Chemical. 221, p. 507-514 8 p.

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, Z., Le, T., Wu, Z., Yao, Y., Li, L., Tentzeris, M., Moon, K. S. & Wong, C. P., 21 Jan 2015, In : Advanced Functional Materials. 25, 3, p. 464-470 7 p.

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

Realization of Free-Space Long-Distance Self-Healing Bessel Beams

Vetter, C., Steinkopf, R., Bergner, K., Ornigotti, M., Nolte, S., Gross, H. & Szameit, A., 1 Oct 2019, In : Laser and Photonics Reviews. 13, 10, 1900103.

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., 2018, In : Nature Photonics. 12, p. 221-227 7 p.

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

Refraction of nonlinear light beams in nematic liquid crystals

Assanto, G., Smyth, N. F. & Xia, W., Sep 2012, In : Journal of Nonlinear Optical Physics and Materials. 21, 3, 1250033.
Research output: Contribution to journal > Article > Scientific > peer-review

Relaxation behavior of densified sodium aluminoborate glass

Veber, A., Smedskjaer, M. M. & de Ligny, D., 1 Oct 2020, In : Acta Materialia. 198, p. 153-167 15 p.
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., Oct 2013, In : Acta Materialia. 61, 17, p. 6329-6337 9 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Resolving unoccupied electronic states with laser ARPES in bismuth-based cuprate superconductors

Miller, T. L., Ärrälä, M., Smallwood, C. L., Zhang, W., Hafiz, H., Barbiellini, B., Kurashima, K., Adachi, T., Koike, Y., Eisaki, H., Lindroos, M., Bansil, A., Lee, D. H. & Lanzara, A., 13 Feb 2015, In : Physical Review B. 91, 8, 5 p., 085109.
Research output: Contribution to journal > Article > Scientific > peer-review

Restoring Integral Images from Focal Stacks Using Compressed Sensing Techniques

Trujillo-Sevilla, J. M., Katkovnik, V., Javidi, B. & Rodríguez-Ramos, J. M., 1 Jul 2016, In : Journal of Display Technology. 12, 7, p. 701-706 6 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Reversible photodoping of TiO₂ nanoparticles

Joost, U., Sutka, A., Oja, M., Smits, K., Doebelin, N., Loot, A., Järvekülg, M., Hirsimäki, M., Valden, M. & Nommiste, E., 26 Dec 2018, In : Chemistry of Materials. 30, 24, 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, S., Putaala, J., Hannu, J., Kunnari, E. & Mäntysalo, M., 1 Oct 2016, In : Microelectronics Reliability. 65, p. 142-150 9 p.
Research output: Contribution to journal > Article > Scientific > peer-review

Roadmap on optical rogue waves and extreme events

Akhmediev, N., Kibler, B., Baronio, F., Belić, M., Zhong, W. P., Zhang, Y., Chang, W., Soto-Crespo, J. M., Vouzas, P., Grelu, P., Lecaplain, C., Hammani, K., Rica, S., Picozzi, A., Tlidi, M., Panajotov, K., Mussot, A., Bendahmane, A., Szriftgiser, P., Genty, G., Dudley, J., Kudlinski, A., Demircan, A., Morgner, U., Amiranashvili, S., Bree, C., Steinmeyer, G., Masoller, C., Broderick, N. G. R., Runge, A. F. J., Erkintalo, M., Residori, S., Bortolozzo, U., Arecchi, F. T., Wabnitz, S., Tiofack, C. G., Coulibaly, S. & Taki, M., 1 Jun 2016, In : Journal of Optics. 18, 6, 063001.
Research output: Contribution to journal > Article > Scientific > peer-review

Scalar diffraction field calculation from curved surfaces via Gaussian beam decomposition

Şahin, E. & Onural, L., 1 Jul 2012, In : Journal of the Optical Society of America A: Optics Image Science and Vision. 29, 7, p. 1459-1469 11 p.
Research output: Contribution to journal > Article > Scientific > peer-review

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Belahcen, A., Rasilo, P. & Arkio, A., Feb 2014, In : IEEE Transactions on Magnetics. 50, 2, 7022104.
Research output: Contribution to journal > Article > Scientific > peer-review

Self-alignment in the stacking of microchips with mist-induced water droplets

Chang, B., Sariola, V., Jääskeläinen, M. & Zhou, Q., Jan 2011, In : Journal of Micromechanics and Microengineering. 21, 1, 015016.
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Self-orienting liquid crystal doped with polymer-azo-dye complex

Ouskova, E., Vapaavuori, J. & Kaivola, M., 1 Dec 2011, In : *Optical Materials Express*. 1, 8, p. 1463-1470 8 p.

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

Semantics of HTS AC Loss Modeling: Theories, Models, and Experiments

Lahtinen, V. & Stenvall, A., 1 Aug 2020, In : *IEEE Transactions on Applied Superconductivity*. 30, 5, 5900809.

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

Sensitivity Analysis of Inverse Thermal Modeling to Determine Power Losses in Electrical Machines

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

Silver sulfide nanoclusters and the superatom model

Goh, J-Q., Malola, S., Häkkinen, H. & Akola, J., 22 Jan 2015, In : *Journal of Physical Chemistry C*. 119, 3, p. 1583-1590 8 p.

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

Simulation of cluster growth using a lattice gas model

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

Simulation studies of DFB laser longitudinal structures for narrow linewidth emission

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

Single-source multibattery solar charger: Case study and implementation issues

Gadelovits, S., Sitbon, M., Suntio, T. & Kuperman, A., 25 Nov 2015, In : *Progress in Photovoltaics: Research and Applications*. 23, 12, p. 1916-1928 13 p.

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 poss substrates fabricated by nanoimprint lithography

Borah, D., Rasappa, S., Salaun, M., Zellsman, M., Lorret, O., Lontos, G., Ntetsikas, K., Avgeropoulos, A. & Morris, M. A., 1 Jun 2015, In : *Advanced Functional Materials*. 25, 22, p. 3425-3432 8 p.

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

Solar Irradiation Independent Expression for Photovoltaic Generator Maximum Power Line

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

Soliton enhancement of spontaneous symmetry breaking

Alberucci, A., Piccardi, A., Kravets, N., Buchnev, O. & Assanto, G., 2015, In : *Optica*. 2, 9, p. 783-789 7 p.

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

Stable blue phase polymeric Langmuir-Schaefer films based on unsymmetrical hydroxyalkadiynyl N-arylcarbamate derivatives

Alekseev, A., Ihalainen, P., Ivanov, A., Domnin, I., Rosqvist, E., Lemmetyinen, H., Vuorimaa-Laukkanen, E., Peltonen, J. & Vyaz'min, S., 2018, In : *Thin Solid Films*. 645, p. 108-118 11 p.

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

Statistical analysis of E-jet print parameter effects on Ag-nanoparticle ink droplet size

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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., 1 Apr 2016, In : IEEE Transactions on Applied Superconductivity. 26, 3, 4003307.

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

Stimuli-Responsive Materials Based on Interpenetrating Polymer Liquid Crystal Hydrogels

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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., Jun 2011, In : IEEE Transactions on Applied Superconductivity. 21, 3 PART 2, p. 2354-2358 5 p.

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

Structural and Electrical Characterization of Solution-Processed Electrodes for Piezoelectric Polymer Film Sensors

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Study of quench protection for the Nb₃Sn low-β quadrupole for the LHC luminosity upgrade (HiLumi-LHC)

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Sub-100 ps monolithic diamond Raman laser emitting at 573 nm

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

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Suitability of bundle approximation in AC loss analysis of NbTi wires: Simulations and experiment

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Suitability of Different Quench Protection Methods for a 16 T Block-Type Nb₃Sn Accelerator Dipole Magnet

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Superatom Model for Ag-S Nanocluster with Delocalized Electrons

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Supercontinuum generation as a signal amplifier

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

Superfluid weight and Berezinskii-Kosterlitz-Thouless transition temperature of twisted bilayer graphene

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

Surface-induced charge state conversion of nitrogen-vacancy defects in nanodiamonds

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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

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

Symmetry-broken electronic structure and uniaxial Fermi surface nesting of untwinned CaFe₂As₂

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

Temporal ghost imaging using wavelength conversion and two-color detection

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

Test results of the LARP HQ02b magnet at 1.9 K

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

Test Results of the LARP Nb₃Sn Quadrupole HQ03a

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

The 16 T Dipole Development Program for FCC

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

The effect of carbon and nickel additions on the precursor synthesis of Cr₃C₂-Ni nanopowder

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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, L., Prado, C., Díaz, R., Fernández, E., Ismailov, A., Kumpulainen, T., Levänen, E., Torrecillas, R. & Fernández, A., Jun 2018, In : *Ceramics International*. 44, 8, p. 9472-9478

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

The EuCARD-2 future magnets European collaboration for accelerator-quality HTS magnets

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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

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The Impact of Protection Heater Delays Distribution on the Hotspot Temperature in a High-Field Accelerator Magnet

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

Theoretical studies of structural properties of the high-T_c superconductor Y₁Ba₂Cu₃O_{7-x}

Valkealahti, S. & Welch, D. O., 1 Jan 1989, In : *Physica C: Superconductivity and its Applications*. 162-164, PART 1, p. 540-541 2 p.

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

The red, purple and blue modifications of polymeric unsymmetrical hydroxyalkadiynyl-N-arylcabamate derivatives in Langmuir-Schaefer films

Alekseev, A., Ihalainen, P., Ivanov, A., Domnin, I., Klechkovskaya, V., Orekhov, A., Lemmetyinen, H., Vuorimaa-Laukkanen, E., Peltonen, J. & Vyaz'min, S., 1 Aug 2016, In : *Thin Solid Films*. 612, p. 463-471 9 p.

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. T., Sassetti, M. & Räsänen, E., 13 Sep 2016, In : *Physical Review B*. 94, 11, 115417.

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

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., Apr 2011, In : *Microelectronic Engineering*. 88, 4, p. 526-529 4 p.

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

Thermally evaporated single-crystal Germanium on Silicon

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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., 15 Apr 2016, In : *Journal of Non-Crystalline Solids*. 438, p. 67-73 7 p.

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, D., Rasappa, S., SenthamaraiKannan, R., Shaw, M. T., Holmes, J. D. & Morris, M. A., 1 Mar 2013, In : Journal of Colloid and Interface Science. 393, 1, p. 192-202 11 p.

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

Third order nonlinear optical response of TTF-based molecular corners

Iliopoulos, K., Czaplicki, R., Ouazzani, H. E., Balandier, J-Y., Chas, M., Goeb, S., Sallé, M., Gindre, D. & Sahraoui, B., 2012, In : Nonlinear Optics, Quantum Optics. 43, 1-4, p. 205-212 8 p.

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

Three-color vector nematicon

Laudyn, U. A., Kwaśny, M., Karpierz, M. A. & Assanto, G., 2017, In : Photonics Letters of Poland. 9, 2, p. 36-38 3 p.

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

Towards REBCO 20T+ Dipoles for Accelerators

van Nugteren, J., Kirby, G., Murtomaki, J., DeRijk, G., Rossi, L. & Stenvall, A., Jun 2018, In : IEEE Transactions on Applied Superconductivity. 28, 4, 4008509.

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

Towards universal enrichment nanocoating for IR-ATR waveguides

Giammarco, J., Zdyrko, B., Petit, L., Musgraves, J. D., Hu, J., Agarwal, A., Kimerling, L., Richardson, K. & Luzinov, I., 28 Aug 2011, In : Chemical Communications. 47, 32, p. 9104-9106 3 p.

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Transmission, refraction, and focusing properties of labyrinth based left-handed metamaterials

Özbay, E., Bulu, I. & Caglayan, H., Apr 2007, In : Physica Status Solidi (B) Basic Research. 244, 4, p. 1202-1210 9 p.

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., 1 Jan 2020, In : Ceramics International.

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

Transverse deformation of a lamellar TiAl alloy at high temperature by in situ microcompression

Edwards, T. E. J., Di Gioacchino, F., Goodfellow, A. J., Mohanty, G., Wehrs, J., Michler, J. & Clegg, W. J., 1 Mar 2019, In : Acta Materialia. 166, p. 85-99 15 p.

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

Tuneable topological domain wall states in engineered atomic chains

Huda, M. N., Kezilebieke, S., Ojanen, T., Drost, R. & Liljeroth, P., 2020, In : npj Quantum Materials. 5, 1, 5 p., 17.

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., 31 May 2016, In : Physical Review B. 93, 19, 8 p., 195443.

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

Two cations, two mechanisms: Interactions of sodium and calcium with zwitterionic lipid membranes

Javanainen, M., Melcrová, A., Magarkar, A., Jurkiewicz, P., Hof, M., Jungwirth, P. & Martinez-Seara, H., 2017, In : Chemical Communications. 53, 39, p. 5380-5383 4 p.

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

Two-time coherence of pulse trains and the integrated degree of temporal coherence

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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., 29 Jan 2019, In : *Physical Review B*. 99, 4, 045153.

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., Korpjärvi, V. M., Schulte, K., Kuzmin, M., Punkkinen, R., Laukkanen, P., Guina, M. & Kokko, K., 29 Jul 2014, In : *Physical Review B*. 90, 4, p. 1-9 9 p., 045312.

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, J., Stenvall, A. & Lahtinen, V., 1 Jun 2015, In : *IEEE Transactions on Applied Superconductivity*. 25, 3, 8200405.

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., 1 Feb 2017, In : *Optical Materials*. 64, p. 361-365 5 p.

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

Vortex stabilization by means of spatial solitons in nonlocal media

Izdebskaya, Y., Krolikowski, W., Smyth, N. F. & Assanto, G., 1 May 2016, In : *Journal of Optics*. 18, 5, 054006.

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

Wetting hysteresis induced by temperature changes: Supercooled water on hydrophobic surfaces

Heydari, G., Sedighi Moghaddam, M., Tuominen, M., Fielden, M., Haapanen, J., Mäkelä, J. M. & Claesson, P. M., 15 Apr 2016, In : *Journal of Colloid and Interface Science*. 468, p. 21-33 13 p.

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., 1 Sep 2016, In : *IEEE Transactions on Device and Materials Reliability*. 16, 3, p. 429-431 3 p.

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

Nonlinear optics applications: In memory of George I. Stegeman

Assanto, G., 2016, In : *Photonics Letters of Poland*. 8, 1, p. 1 1 p.

Research output: Contribution to journal › Editorial › Scientific

Novel optical and photonic devices based on 2D materials: Feature issue introduction

Luo, Z., Bao, Q., Caglayan, H., Jia, B. & Zhang, H., 2020, In : *Optical Materials Express*. 10, 6, p. 1344-1345 2 p.

Research output: Contribution to journal › Editorial › Scientific

Special Issue: Mid-infrared optical materials and their device applications

Hu, J. (ed.), Mawst, L. (ed.), Moss, S. (ed.), Petit, L. (ed.) & Ting, D. (ed.), 2018, In : *Optical Materials Express*. 8, 7

Research output: Contribution to journal › Special issue › Scientific › peer-review

Special Issue: Novel Optical and Photonic Devices based on 2D Materials

Luo, Z. (ed.), Bao, Q. (ed.), Caglayan, H. (ed.), Jia, B. (ed.) & Zhang, H. (ed.), 2020, In : *Optical Materials Express*. 10, 6

Research output: Contribution to journal › Special issue › Scientific › peer-review

Coherence of Supercontinuum Light

Genty, G., Friberg, A. T. & Turunen, J., 2016, *Progress in Optics*. Elsevier, Vol. 61. (Progress in Optics).

Research output: Chapter in Book/Report/Conference proceeding › Chapter › Scientific › peer-review

1180nm VECSEL with 50 W output power

Kantola, E., Leinonen, T., Ranta, S., Tavast, M., Penttinen, J-P. & Guina, M., 2015, *Proceedings of SPIE - The International Society for Optical Engineering*. SPIE, Vol. 9349. 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, M., Lemberg, J., Martelius, M., Roverato, E., Nieminen, T., Englund, M., Stadius, K., Anttila, L., Pallonen, J., Valkama, M. & Rynnänen, J., 2 Mar 2017, *2017 IEEE International Solid-State Circuits Conference, ISSCC 2017*. IEEE, p. 224-225 2 p.

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

Viherialä, J., Tuorila, H., Zia, N., Cherchi, M., Aalto, T. & Guina, M., 2019, *Silicon Photonics XIV*. Reed, G. T. & Knights, A. P. (eds.). SPIE, IEEE, 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, A., Nechay, K., Caliman, A., Suruceanu, G., Gallo, P., Guina, M. & Kapon, E., 2019, *Vertical External Cavity Surface Emitting Lasers (VECSELs) IX*. Keller, U. (ed.). SPIE, IEEE, 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, S. R., Lupo, D. & Berger, P. R., 1 Aug 2019, *2019 IEEE International Flexible Electronics Technology Conference, IFETC 2019*. IEEE, 3 p.

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, A., Chichkov, N. B., Gumenyuk, R., Zherebtsov, E., Melkumov, M. A., Yashkov, M. V., Dianov, E. M. & Rafailov, E. U., 2019, *Optical Components and Materials XVI*. Digonnet, M. J. F. & Jiang, S. (eds.). SPIE, IEEE, 1091406.

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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, Y., Zhao, Y., Pan, Z., Suomalainen, S., Härkönen, A., Guina, M., Griebner, U., Wang, L., Loiko, P., Mateos, X., Chen, W. & Petrov, V., 2020, *Solid State Lasers XXIX: Technology and Devices*. Clarkson, W. A. & Shori, R. K. (eds.). SPIE, 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, Y., Nadykto, A. & Egiazarian, K., 2018, *Counterterrorism, Crime Fighting, Forensics, and Surveillance Technologies II*. SPIE, 108020O. (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, P. R., Li, M., Mattei, R. M., Niang, M. A., Talisa, N., Tripepi, M., Harris, B., Bhalerao, S. R., Chowdhury, E. A., Winter, C. H. & Lupo, D., 1 Mar 2019, *2019 Electron Devices Technology and Manufacturing Conference, EDTM 2019*. IEEE, p. 160-162 3 p.

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Moradi, E., Koski, K., Björninen, T., Muller, R., Ledochowitsch, P., Sydänheimo, L., Alon, E., Maharbiz, M. M., Rabaey, J. M., Ukkonen, L. & Rahmat-Samii, Y., 16 Oct 2014, *2014 United States National Committee of URSI National Radio Science Meeting, USNC-URSI NRSM 2014*. Institute of Electrical and Electronics Engineers Inc., 6928137

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Qu, Y., Soininen, J. P. & Nurmi, J., 2007, *2007 IEEE International Symposium on Circuits and Systems*. p. 161-164 4 p.
Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Sand, A. & Rakkolainen, I., 2014, *Proceedings of SPIE-IS and T Electronic Imaging - Stereoscopic Displays and Applications XXV*. SPIE, Vol. 9011. 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

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Kerst, T. & Toivonen, J., 2018, *CLEO: Applications and Technology, CLEO_AT 2018*. OSA - The Optical Society

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Phung, H. M., Kahle, H., Penttinen, J-P., Rajala, P., Ranta, S. & Guina, M., 2020, *Vertical External Cavity Surface Emitting Lasers (VECSELs) X*. Hastie, J. E. (ed.). SPIE, 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, A. S., Lukin, V. V. & Egiuzarian, K., 2015, *Proceedings of SPIE - The International Society for Optical Engineering*. SPIE, Vol. 9399. 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

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Anisotropic ultra-large mode area Yb-doped tapered double clad fiber for ultrafast amplifiers

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Moradi, E., Koski, K., Hasani, M., Rahmat-Samii, Y. & Ukkonen, L., 2 Mar 2015, *ICCEM 2015 - 2015 IEEE International Conference on Computational Electromagnetics*. The Institute of Electrical and Electronics Engineers, Inc., p. 59-60 2 p. 7052555

Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

A perceptual quality metric for high-definition stereoscopic 3D video

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Artificial intelligence yesterday, today and tomorrow

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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, T., Tukiainen, A., Elsehrawy, F., Ranta, S., Raappana, M., Aho, A., Isoaho, R., Cappelluti, F. & Guina, M., 2019, *2019 European Space Power Conference (ESPC)*. IEEE, 4 p.

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Backscattering-based wireless communication and power transfer to small biomedical implants

Ukkonen, L., Sydänheimo, L., Ma, S. & Björninen, T., 2020, *Microfluidics, BioMEMS, and Medical Microsystems XVIII*. Gray, B. L. & Becker, H. (eds.). SPIE, 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

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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

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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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

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Cyclic quantum walks: Photonic realization and decoherence analysis

Nejadsattari, F., Zhang, Y., Jayakody, M. N., Bouchard, F., Larocque, H., Sit, A., Fickler, R., Cohen, E. & Karimi, E., 2020, *Advanced Optical Techniques for Quantum Information, Sensing, and Metrology*. Hemmer, P. R., Migdall, A. L. & Hasan, Z. U. (eds.). SPIE, 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., 2015, *Image Processing: Algorithms and Systems XIII*. SPIE, 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

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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

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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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., Korpjärvi, V. M., Iliadis, N., Mäkelä, J., Viheriälä, J., Apostolopoulos, D., Guina, M. & Avramopoulos, H., 13 Mar 2015, *Optical Fiber Communication Conference, OFC 2015*. OSA - The Optical Society

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

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Dots-on-the-fly electron beam lithography

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Hallman, L., Ryzkin, B. S., Avrutin, E. A., Aho, A. T., Viheriälä, J., Guina, M. & Kostamovaara, J. T., 1 Oct 2019, *Proceedings of the 2019 IEEE High Power Diode Lasers and Systems Conference, HPD 2019 - Co-located with Photonex 2019*. IEEE, p. 19-20 2 p.

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

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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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

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Enhanced-performance wireless conformal "smart skins" utilizing inkjet-printed carbon-nanostructures

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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

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Research output: Chapter in Book/Report/Conference proceeding › Conference contribution › Scientific › peer-review

Fabrication and characterization of broadband superluminescent diodes for 2 μm wavelength

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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

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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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, Z., He, H., Chen, X., Ukkonen, L. & Virkki, J., 1 Jun 2019, *2019 Photonics and Electromagnetics Research Symposium - Spring, PIERS-Spring 2019 - Proceedings*. IEEE, p. 1372-1377 6 p. 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., 13 Aug 2018, *2018 International Conference Laser Optics (ICLO)*. IEEE, p. 133-133 1 p. 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, Z., Stefszky, M., Ulvila, V., Silberhorn, C. & Vainio, M., 1 May 2019, *2019 Conference on Lasers and Electro-Optics, CLEO 2019 - Proceedings*. IEEE

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, E., Penttinen, J-P., Leinonen, T., Ranta, S. & Guina, M., 2018, *CLEO: Applications and Technology, CLEO_AT 2018*. OSA - The Optical Society

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

Germanium-on-glass solar cells

Colace, L., Soriano, V., Maragliano, C., Assanto, G., Fulgoni, D., Nash, L. & Palmer, M., 2011, *8th IEEE International Conference on Group IV Photonics, GFP 2011*. p. 255-257 3 p. 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, Y. M., Payusov, A. S., Gordeev, N. Y., Maximov, M. V., Schlichting, S., Nippert, F. & Hoffmann, A., 2015, *Proceedings of SPIE: Light-Emitting Diodes: Materials, Devices, and Applications for Solid State Lighting XIX*. SPIE, Vol. 9383. 93830E

Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

>8W GaInNAs VECSEL emitting at 615 nm

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Research output: Chapter in Book/Report/Conference proceeding > Conference contribution > Scientific > peer-review

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Site-controlled InAs Quantum Dots for Plasmonics

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Strong localization in unintentional disordered photonics crystal waveguides

Zang, X. & Lalanne, P., 2013, *2013 7th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics, METAMATERIALS 2013*. IEEE COMPUTER SOCIETY PRESS, p. 322-324 3 p.

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Study of second-harmonic generation from CdS nanostructured thin film

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Sub-100 fs pulse generation from a Tm,Ho: CALYO laser mode-locked by a GaSb-based SESAM at ~2043 nm

Zhao, Y., Wang, Y., Zhang, X., Mateos, X., Pan, Z., Loiko, P., Zhou, W., Xu, X., Xu, J., Shen, D., Suomalainen, S., Härkönen, A., Guina, M., Griebner, U. & Petrov, V., 1 Jan 2018, *CLEO: Science and Innovations, CLEO_SI 2018*. OSA - The Optical Society

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

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