

- Aho AT, Viheriälä J, Koskinen M, Uusitalo T, Reuna J, Guina M. **High-Power 1.5 μm Tapered Distributed Bragg Reflector Laser Diodes for Eye-Safe LIDAR.** IEEE Photonics Technology Letters. 2020 Oct 1;32(19):1249-1252. <https://doi.org/10.1109/LPT.2020.3019845>
- Terryn L, Calders K, Disney M, Origo N, Malhi Y, Newnham G et al. **Tree species classification using structural features derived from terrestrial laser scanning.** ISPRS Journal of Photogrammetry and Remote Sensing. 2020 Oct 1;168:170-181. <https://doi.org/10.1016/j.isprsjprs.2020.08.009>
- Tan C, Ceballos G, Kasabov N, Subramaniam NP. **Fusionsense: Emotion classification using feature fusion of multimodal data and deep learning in a brain-inspired spiking neural network.** Sensors (Switzerland). 2020 Sep 17;20(18). 5328. <https://doi.org/10.3390/s20185328>
- Asamoah BO, Mohamed S, Datta S, Karvinen P, Rekola H, Priimagi A et al. **Optically induced crossover from weak to strong coupling regime between surface plasmon polaritons and photochromic molecules.** Optics Express. 2020 Aug 31;28(18):26509-26518. <https://doi.org/10.1364/OE.400359>
- He H, Chen X, Mehmood A, Raivio L, Huttunen H, Raunonen P et al. **ClothFace: A Batteryless RFID-Based Textile Platform for Handwriting Recognition.** Sensors (Basel, Switzerland). 2020 Aug 28;20(17). 4878. <https://doi.org/10.3390/s20174878>
- Nechay K, Mereuta A, Paranthoen C, Brevalle G, Levallois C, Alouini M et al. **High-Power 760 nm VECSEL Based on Quantum Dot Gain Mirror.** IEEE journal of quantum electronics. 2020 Aug 1;56(4). <https://doi.org/10.1109/JQE.2020.2986770>
- Prytz NB, Qvarngård D, Härkönen A, Guina M, Gallo K. **Edge-enhanced optical parametric generation in periodically poled LiNbO₃.** Optics Express. 2020 Jul 6;28(14):20879-20887. <https://doi.org/10.1364/OE.392833>
- Sharma RO, Rantala TT, Hoggan PE. **Selective hydrogen production at Pt(111) investigated by Quantum Monte Carlo methods for metal catalysis.** International Journal of Quantum Chemistry. 2020 Jun 5;120(11). e26198. <https://doi.org/10.1002/qua.26198>
- Eslami Z, Ryczkowski P, Salmela L, Genty G. **Low-noise octave-spanning mid-infrared supercontinuum generation in a multimode chalcogenide fiber.** Optics Letters. 2020 Jun 1;45(11):3103-3106. <https://doi.org/10.1364/OL.392282>
- Gray AC, Woods JRC, Carpenter LG, Kahle H, Berry SA, Tropper AC et al. **Zinc-indiffused MgO:PPLN waveguides for blue/UV generation via VECSEL pumping.** Applied Optics. 2020 Jun 1;59(16):4921-4926. <https://doi.org/10.1364/AO.387839>
- Shevkunov I, Katkovnik V, Egiazarian K. **Lensless hyperspectral phase imaging in a self-reference setup based on Fourier transform spectroscopy and noise suppression.** Optics Express. 2020 Jun;28(12):17944-17956. <https://doi.org/10.1364/OE.393009>
- Shevkunov I, Katkovnik V, Claus D, Pedrini G, Petrov NV, Egiazarian K. **Hyperspectral phase imaging based on denoising in complex-valued eigensubspace.** Optics and Lasers in Engineering. 2020 Apr 1;127. 105973. <https://doi.org/10.1016/j.optlaseng.2019.105973>
- Wu H, Han B, Wang Z, Genty G, Feng G, Liang H. **Temporal ghost imaging with random fiber lasers.** Optics Express. 2020 Mar 30;28(7):9957-9964. <https://doi.org/10.1364/OE.387762>
- Meng F, Lapre C, Billet C, Genty G, Dudley JM. **Instabilities in a dissipative soliton-similariton laser using a scalar iterative map.** Optics Letters. 2020 Mar 1;45(5):1232-1235. <https://doi.org/10.1364/OL.386110>

Brandt F, Hiekkamäki M, Bouchard F, Huber M, Fickler R. **High-dimensional quantum gates using full-field spatial modes of photons**. *Optica*. 2020 Feb 20;7(2):98-107. <https://doi.org/10.1364/OPTICA.375875>

Kocsis P, Shevkunov I, Katkovnik V, Egiazarian K. **Single exposure lensless subpixel phase imaging: Optical system design, modelling, and experimental study**. *Optics Express*. 2020 Feb 17;28(4):4625-4637. <https://doi.org/10.1364/OE.379785>

Tuorila H, Viheriälä J, Zia N, Cherchi M, Harjanne M, Isoaho R et al. **Precise length definition of active GaAs-based optoelectronic devices for low-loss silicon photonics integration**. *Optics Letters*. 2020 Feb 15;45(4):943-946. <https://doi.org/10.1364/OL.382109>

Moiseev EI, Maximov MV, Kryzhanovskaya NV, Simchuk OI, Kulagina MM, Kadinskaya SA et al. **Comparative Analysis of Injection Microdisk Lasers Based on InGaAsN Quantum Wells and InAs/InGaAs Quantum Dots**. *Semiconductors*. 2020 Feb 1;54(2):263-267. <https://doi.org/10.1134/S1063782620020177>

Nieminen A, Marini A, Ornigotti M. **Goos-Hänchen and Imbert-Fedorov shifts for epsilon-near-zero materials**. *Journal of Optics*. 2020 Jan 28;22(3). 035601. <https://doi.org/10.1088/2040-8986/ab6ae7>

Viljanen J, Kalmankoski K, Contreras V, Sarin JK, Sorvajärvi T, Kinnunen H et al. **Sequential Collinear Photofragmentation and Atomic Absorption Spectroscopy for Online Laser Monitoring of Triatomic Metal Species**. *Sensors (Basel, Switzerland)*. 2020 Jan 18;20(2). 533. <https://doi.org/10.3390/s20020533>

Ukkonen L, Sydänheimo L, Ma S, Björninen T. **Backscattering-based wireless communication and power transfer to small biomedical implants**. In Gray BL, Becker H, editors, *Microfluidics, BioMEMS, and Medical Microsystems XVIII*. SPIE. 2020. 112350A. (Progress in Biomedical Optics and Imaging - Proceedings of SPIE). <https://doi.org/10.1117/12.2552183>

Habib M, Briukhanova D, Das N, Yildiz BC, Caglayan H. **Controlling the plasmon resonance via epsilon-near-zero multilayer metamaterials**. *Nanophotonics*. 2020;9(11). 20200245. <https://doi.org/10.1515/nanoph-2020-0245>

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

Fickler R, Bouchard F, Giese E, Grillo V, Leuchs G, Karimi E. **Full-field mode sorter using two optimized phase transformations for high-dimensional quantum cryptography**. *Journal of Optics (United Kingdom)*. 2020;22(2). 024001. <https://doi.org/10.1088/2040-8986/ab6303>

Korobko DA, Stoliarov DA, Itrin PA, Odnoblyudov MA, Petrov AB, Gumenyuk RV. **Harmonic mode-locking fiber ring laser with a pulse repetition rate up to 12 GHz**. *Optics and laser technology*. 2020;133. 106526. <https://doi.org/10.1016/j.optlastec.2020.106526>

Huttunen MJ, Hristu R, Dumitru A, Floroiu I, Costache M, Stanciu SG. **Multiphoton microscopy of the dermoepidermal junction and automated identification of dysplastic tissues with deep learning**. *Biomedical Optics Express*. 2020;11(1):186-199. <https://doi.org/10.1364/BOE.11.000186>

Mourgias-Alexandris G, Totovic A, Tsakyridis A, Passalis N, Vyrsoinos K, Tefas A et al. **Neuromorphic Photonics with Coherent Linear Neurons Using Dual-IQ Modulation Cells**. *Journal of Lightwave Technology*. 2020;38(4):811-819. <https://doi.org/10.1109/JLT.2019.2949133>

Ding C, Koivurova M, Setälä T, Turunen J, Friberg AT. **Spectral invariance and scaling law for nonstationary optical fields**. *Physical Review A*. 2020;101(3). 033808. <https://doi.org/10.1103/PhysRevA.101.033808>

Gumenyuk RV, Korobko DA, Zolotovskii IO. **Stabilization of passive harmonic mode locking in a fiber ring laser**. *Optics Letters*. 2019 Dec 23;45(1):184-187. <https://doi.org/10.1364/OL.45.000184>

Ometov A, Bezzateev S, Voloshina N, Masek P, Komarov M. **Environmental monitoring with distributed mesh networks: An overview and practical implementation perspective for urban scenario**. *Sensors* (Switzerland). 2019 Dec 2;19(24):5548. <https://doi.org/10.3390/s19245548>

Mehmood A, Chen X, He H, Ukkonen L, Virkki J. **Eco-friendly flexible wireless platforms by 3D printing pen**. In 2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE. 2019. p. 2422-2425. 9021887. (2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings). <https://doi.org/10.1109/PIERS-Fall48861.2019.9021887>

Khan Z, He H, Chen X, Ukkonen L, Virkki J. **Embroidered and e-textile conductors embedded inside 3D-printed structures**. In 2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE. 2019. p. 1675-1680. 9021681 <https://doi.org/10.1109/PIERS-Fall48861.2019.9021681>

Chen X, He H, Yang Y, Gou M, Sydanheimo L, Ukkonen L et al. **Maintenance-free moisture sensor on dishcloth substrate**. In 2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE. 2019. p. 2418-2421. 9021487 <https://doi.org/10.1109/PIERS-Fall48861.2019.9021487>

Mehmood A, Vianto V, He H, Chen X, Buruk OO, Ukkonen L et al. **Passive UHF RFID-based user interface on a wooden surface**. In 2019 Photonics and Electromagnetics Research Symposium - Fall, PIERS - Fall 2019 - Proceedings. IEEE. 2019. p. 1760-1763. 9021441 <https://doi.org/10.1109/PIERS-Fall48861.2019.9021441>

Turov AT, Kulya MS, Petrov NV, Gorodetsky A. **Resolution and contrast in terahertz pulse time-domain holographic reconstruction**. *Applied Optics*. 2019 Dec 1;58(34):G231-G240. <https://doi.org/10.1364/AO.58.00G231>

Kulya M, Petrov NV, Katkovnik V, Egiazarian K. **Terahertz pulse time-domain holography with balance detection: Complex-domain sparse imaging**. *Applied Optics*. 2019 Dec 1;58(34):G61-G70. <https://doi.org/10.1364/AO.58.00G61>

Shevkunov I, Katkovnik V, Claus D, Pedrini G, Petrov NV, Egiazarian K. **Spectral object recognition in hyperspectral holography with complex-domain denoising**. *Sensors* (Switzerland). 2019 Nov 26;19(23):5188. <https://doi.org/10.3390/s19235188>

Difallah M, Szameit A, Ornigotti M. **Path-integral description of quantum nonlinear optics in arbitrary media**. *Physical Review A*. 2019 Nov 20;100(5):053845. <https://doi.org/10.1103/PhysRevA.100.053845>

Tomkowski R, Sorsa A, Santa-Aho S, Lundin P, Vippola M. **Statistical evaluation of barkhausen noise testing (BNT) for ground samples**. *Sensors* (Switzerland). 2019 Nov 1;19(21):4716. <https://doi.org/10.3390/s19214716>

Hiekkamäki M, Prabhakar S, Fickler R. **Near-perfect measuring of full-field transverse-spatial modes of light**. *Optics Express*. 2019 Oct 28;27(22):31456-31464. <https://doi.org/10.1364/OE.27.031456>

Hallman LW, Ryvkin BS, Avrutin EA, Aho AT, Viheriälä J, Guina M et al. **High Power 1.5um Pulsed Laser Diode with Asymmetric Waveguide and Active Layer Near p-cladding**. *IEEE Photonics Technology Letters*. 2019 Oct 15;31(20):1635-1638. <https://doi.org/10.1109/LPT.2019.2940231>

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

Vetter C, Steinkopf R, Bergner K, Ornigotti M, Nolte S, Gross H et al. **Realization of Free-Space Long-Distance Self-Healing Bessel Beams**. *Laser and Photonics Reviews*. 2019 Oct 1;13(10):1900103. <https://doi.org/10.1002/lpor.201900103>

Klauck F, Teuber L, Ornigotti M, Heinrich M, Scheel S, Szameit A. **Observation of PT-symmetric quantum interference.** Nature Photonics. 2019 Sep 16. <https://doi.org/10.1038/s41566-019-0517-0>

Saleh A, Aalto A, Ryczkowski P, Genty G, Toivonen J. **Short-range supercontinuum-based lidar for temperature profiling.** Optics Letters. 2019 Sep 1;44(17):4223-4226. <https://doi.org/10.1364/OL.44.004223>

Aho A, Viheriälä J, Virtanen H, Zia N, Isoaho R, Guina M. **High power GaInNAs superluminescent diodes emitting over 400 mW in the 1.2 μ m wavelength range.** Applied Physics Letters. 2019 Aug 22;115(8). 081104 . <https://doi.org/10.1063/1.5111012>

Nechay K, Kahle H, Penttinen J-P, Rajala P, Tukiainen A, Ranta S et al. **AlGaAs/AlGaInP VECSELs with Direct Emission at 740-770 nm.** IEEE Photonics Technology Letters. 2019 Aug 1;31(15):1245-1248. <https://doi.org/10.1109/LPT.2019.2924289>

Schraik D, Varvia P, Korhonen L, Rautiainen M. **Bayesian inversion of a forest reflectance model using Sentinel-2 and Landsat 8 satellite images.** JOURNAL OF QUANTITATIVE SPECTROSCOPY AND RADIATIVE TRANSFER. 2019 Aug 1;233:1-12. <https://doi.org/10.1016/j.jqsrt.2019.05.013>

Zhang W, Fickler R, Giese E, Chen L, Boyd RW. **Influence of pump coherence on the generation of position-momentum entanglement in optical parametric down-conversion.** Optics Express. 2019 Jul 22;27(15):20745-20753. <https://doi.org/10.1364/OE.27.020745>

Wu H, Ryczkowski P, Friberg AT, Dudley JM, Genty G. **Temporal ghost imaging using wavelength conversion and two-color detection.** Optica. 2019 Jul 20;6(7):902-906. <https://doi.org/10.1364/OPTICA.6.000902>

Ali I, Suominen O, Gotchev A, Morales ER. **Methods for simultaneous robot-world-hand-eye calibration: A comparative study.** Sensors (Switzerland). 2019 Jun 2;19(12). 2837. <https://doi.org/10.3390/s19122837>

Kekonen A, Bergelin M, Johansson M, Kumar Joon N, Bobacka J, Viik J. **Bioimpedance Sensor Array for Long-Term Monitoring of Wound Healing from Beneath the Primary Dressings and Controlled Formation of H₂O₂ Using Low-Intensity Direct Current.** Sensors. 2019 May 31;19(11). <https://doi.org/10.3390/s19112505>

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

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

Kurka M, Dyksik M, Suomalainen S, Koivusalo E, Guina M, Motyka M. **GaInAsSb/AlGa(In)AsSb type I quantum wells emitting in 3 μ m range for application in superluminescent diodes.** Optical Materials. 2019 May 1;91:274-278. <https://doi.org/10.1016/j.optmat.2019.03.036>

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

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

- Kerst T, Malmbeck R, Ial Banik NL, Toivonen J. **Alpha radiation-induced luminescence by am-241 in aqueous nitric acid solution.** *Sensors (Switzerland)*. 2019 Apr 1;19(7). 1602. <https://doi.org/10.3390/s19071602>
- Ometov A, Bezzateev S, Davydov V, Shchesniak A, Masek P, Lohan ES et al. **Positioning information privacy in intelligent transportation systems: An overview and future perspective.** *Sensors*. 2019 Apr 1;19(7). 1603. <https://doi.org/10.3390/s19071603>
- Vimieiro RB, Borges LR, Caron RF, Barufaldi B, Bakic PR, Maidment ADA et al. **Noise measurements from reconstructed digital breast tomosynthesis.** In Schmidt TG, Chen G-H, Bosmans H, editors, *Medical Imaging 2019: Physics of Medical Imaging*. SPIE, IEEE. 2019. 109480C. (Progress in Biomedical Optics and Imaging - Proceedings of SPIE). <https://doi.org/10.1117/12.2512977>
- Smirnov S, Battisti F, Gotchev A. **Layered approach for improving the quality of free-viewpoint depth-image-based rendering images.** *Journal of Electronic Imaging*. 2019 Feb 27;28(1). 013049. <https://doi.org/10.1117/1.JEI.28.1.013049>
- Nejadsattari F, Zhang Y, Bouchard F, Larocque H, Sit A, Cohen E et al. **Experimental realization of wave-packet dynamics in cyclic quantum walks.** *Optica*. 2019 Feb 20;6(2):174-180. <https://doi.org/10.1364/OPTICA.6.000174>
- Dubietis A, Couairon A, Genty G. **Supercontinuum generation: Introduction.** *Journal of the Optical Society of America B: Optical Physics*. 2019 Feb 1;36(2):SG1-SG3. <https://doi.org/10.1364/JOSAB.36.000SG1>
- Ponomarenko M, Miroshnichenko O, Lukin V, Egiazarian K. **Additional lossless compression of JPEG images based on BPG.** In *Image Processing: Algorithms and Systems XVII*. 2019. (IS and T International Symposium on Electronic Imaging Science and Technology). <https://doi.org/10.2352/ISSN.2470-1173.2019.11.IPAS-263>
- Ieremeiev O, Lukin V, Ponomarenko N, Egiazarian K. **Combined no-reference IQA metric and its performance analysis.** In *Image Processing: Algorithms and Systems XVII*. 2019. (IS and T International Symposium on Electronic Imaging Science and Technology). <https://doi.org/10.2352/ISSN.2470-1173.2019.11.IPAS-260>
- Ponomarenko M, Katkovnik V, Egiazarian K. **Phase masks optimization for broadband diffractive imaging.** In *Image Processing: Algorithms and Systems XVII*. 2019. (IS and T International Symposium on Electronic Imaging Science and Technology). <https://doi.org/10.2352/ISSN.2470-1173.2019.11.IPAS-258>
- Akpinar U, Sahin E, Suominen O, Gotchev A. **Thin form-factor super multiview head-up display system.** In *Stereoscopic Displays and Applications XXX*. 2019. (IS&T International Symposium on Electronic Imaging). <https://doi.org/10.2352/ISSN.2470-1173.2019.3.SDA-631>
- Ojha N, Tuomisto M, Lastusaari M, Petit L. **Phosphate glasses with blue persistent luminescence prepared using the direct doping method.** *Optical Materials*. 2019 Jan;87:151-156. <https://doi.org/10.1016/j.optmat.2018.03.063>
- Kahle H, Penttinen JP, Phung HM, Rajala P, Tukiainen A, Ranta S et al. **Comparison of single-side and double-side pumping of membrane external-cavity surface-emitting lasers.** *Optics Letters*. 2019;44(5):1146-1149. <https://doi.org/10.1364/OL.44.001146>
- Huttunen MJ, Reshef O, Stolt T, Dolgaleva K, Boyd RW, Kauranen M. **Efficient nonlinear metasurfaces by using multiresonant high-Q plasmonic arrays.** *Journal of the Optical Society of America B: Optical Physics*. 2019;36(7):E30-E35. <https://doi.org/10.1364/JOSAB.36.000E30>
- Mereuta A, Nechay K, Caliman A, Suruceanu G, Rudra A, Gallo P et al. **Flip-chip Wafer-fused OP-VECSELs emitting 3.65 W at the 1.55- μ m waveband.** *IEEE Journal of Selected Topics in Quantum Electronics*. 2019;25(6). <https://doi.org/10.1109/JSTQE.2019.2922819>

Kulya M, Petrov NV, Tsyarkin A, Egiazarian K, Katkovnik V. **Hyperspectral data denoising for terahertz pulse time-domain holography**. Optics Express. 2019;27(13):18456-18476. <https://doi.org/10.1364/OE.27.018456>

Toenger S, Mäkitalo R, Ahvenjärvi J, Ryczkowski P, Närhi M, Dudley JM et al. **Interferometric autocorrelation measurements of supercontinuum based on two-photon absorption**. Journal of the Optical Society of America B: Optical Physics. 2019;36(5):1320-1326. <https://doi.org/10.1364/JOSAB.36.001320>

Sharma V, Yiannacou K, Karjalainen M, Lahtonen K, Valden M, Sariola V. **Large-scale efficient water harvesting using bioinspired micro-patterned copper oxide nanoneedle surfaces and guided droplet transport**. Nanoscale Advances. 2019;1(10):4025-4040. <https://doi.org/10.1039/c9na00405j>

Pitkänen TP, Raunonen P, Kangas A. **Measuring stem diameters with TLS in boreal forests by complementary fitting procedure**. ISPRS Journal of Photogrammetry and Remote Sensing. 2019;147:294-306. <https://doi.org/10.1016/j.isprsjprs.2018.11.027>

Trevlakis SE, Boulogeorgos AAA, Sofotasios PC, Muhaidat S, Karagiannidis GK. **Optical wireless cochlear implants**. Biomedical Optics Express. 2019;10(2):707-730. <https://doi.org/10.1364/BOE.10.000707>

Piccardi A, Perumbilavil S, Kauranen M, Strangi G, Assanto G. **Random lasing control with optical spatial solitons in nematic liquid crystals**. In Ribeiro P, Raposo M, Andrews D, editors, PHOTOPTICS 2019 - Proceedings of the 7th International Conference on Photonics, Optics and Laser Technology. SCITEPRESS. 2019. p. 289-293 <https://doi.org/10.5220/0007575102890293>

Perumbilavil S, Kauranen M, Assanto G. **Spatiospectral features of a soliton-assisted random laser in liquid crystals**. Optics Letters. 2019;44(14):3574-3577. <https://doi.org/10.1364/OL.44.003574>

Habib M, Ozbay E, Caglayan H. **Tuning plasmon induced reflectance with hybrid metasurfaces**. Photonics. 2019;6(1). 29. <https://doi.org/10.3390/photonics6010029>

Kerst T, Toivonen J. **Intense radioluminescence of NO/N₂-mixture in solar blind spectral region**. Optics Express. 2018 Dec 24;26(26):33764-33771. <https://doi.org/10.1364/OE.26.033764>

Stefszky M, Ulvila V, Abdallah Z, Silberhorn C, Vainio M. **Towards optical-frequency-comb generation in continuous-wave-pumped titanium-indiffused lithium-niobate waveguide resonators**. Physical Review A. 2018 Nov 27;98(5). 053850. <https://doi.org/10.1103/PhysRevA.98.053850>

Casula R, Penttinen J-P, Guina M, Kemp AJ, Hastie JE. **Cascaded crystalline raman lasers for extended wavelength coverage: Continuous-wave, third-stokes operation**. Optica. 2018 Nov 20;5(11):1406-1413. <https://doi.org/10.1364/OPTICA.5.001406>

Rinne J, Keskinen J, Berger PR, Lupo D, Valkama M. **M2M Communication Assessment in Energy-Harvesting and Wake-Up Radio Assisted Scenarios Using Practical Components**. Sensors (Basel, Switzerland). 2018 Nov 16;18(11). <https://doi.org/10.3390/s18113992>

Solanpää J, Räsänen E. **Control of Rydberg-state population with realistic femtosecond laser pulses**. Physical Review A. 2018 Nov 15;98(5). 053422. <https://doi.org/10.1103/PhysRevA.98.053422>

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

Shevkunov I, Katkovnik V, Petrov NV, Egiazarian K. **Super-resolution microscopy for biological specimens: Lensless phase retrieval in noisy conditions.** Biomedical Optics Express. 2018 Nov 1;9(11):5511-5523. #340805. <https://doi.org/10.1364/BOE.9.005511>

Aho T, Guina M, Elsehrawy F, Cappelluti F, Raappana M, Tukiainen A et al. **Metal/Polymer Back Reflectors with Diffraction Gratings for Light Trapping in III-V Solar Cells.** In 2018 IEEE 7th World Conference on Photovoltaic Energy Conversion (WCPEC): A Joint Conference of 45th IEEE PVSC, 28th PVSEC & 34th EU PVSEC. IEEE. 2018. p. 2847-2851. (CONFERENCE RECORD OF THE IEEE PHOTOVOLTAIC SPECIALISTS CONFERENCE). <https://doi.org/10.1109/PVSC.2018.8547661>

Karhu J, Lehmann K, Vainio M, Metsälä M, Halonen L. **Step-modulated decay cavity ring-down detection for double resonance spectroscopy.** Optics Express. 2018 Oct 29;26(22):29086-29098. <https://doi.org/10.1364/OE.26.029086>

Saeidi S, Rasekh P, Awan KM, Tüßen A, Huttunen MJ, Dolgaleva K. **Demonstration of optical nonlinearity in InGaAsP/InP passive waveguides.** Optical Materials. 2018 Oct 1;84:524-530. <https://doi.org/10.1016/j.optmat.2018.07.037>

Pertuz S, Pulido-Herrera E, Kämäräinen J-K. **Focus model for metric depth estimation in standard plenoptic cameras.** ISPRS Journal of Photogrammetry and Remote Sensing. 2018 Oct 1;144:38-47. <https://doi.org/10.1016/j.isprsjprs.2018.06.020>

Yadav A, Chichkov NB, Gumenyuk R, Zherebtsov E, Melkumov MA, Yashkov MV et al. **Fluorescence bandwidth of 280nm from broadband Ce³⁺-doped silica fiber pumped with blue laser diode.** In 2018 International Conference Laser Optics (ICLO) . IEEE. 2018. p. 133-133. 8435861 <https://doi.org/10.1109/LO.2018.8435861>

Laudyn UA, Kwaśny M, Karpierz MA, Smyth NF, Assanto G. **Accelerated optical solitons in reorientational media with transverse invariance and longitudinally modulated birefringence.** Physical Review A. 2018 Aug 7;98(2). 023810. <https://doi.org/10.1103/PhysRevA.98.023810>

Katkovnik V, Shevkunov I, Petrov NV, Egiazarian K. **Multiwavelength surface contouring from phase-coded noisy diffraction patterns: Wavelength-division optical setup.** Optical Engineering. 2018 Aug 1;57(8). 085105. <https://doi.org/10.1117/1.OE.57.8.085105>

Alberucci A, Barboza R, Jisha CP, Nolte S. **Temporal dynamics of light-written waveguides in unbiased liquid crystals.** Journal of the Optical Society of America B: Optical Physics. 2018 Aug 1;35(8):1878-1887. <https://doi.org/10.1364/JOSAB.35.001878>

Härkönen A, Suomalainen S, Rantamäki A, Nikkinen J, Wang Y, Griebner U et al. **1.34 µm VECSEL mode-locked with a GaSb-based SESAM.** Optics Letters. 2018 Jul 15;43(14):3353-3356. <https://doi.org/10.1364/OL.43.003353>

Mikkonen R, Mäntysalo M. **Evaluation of screen printed silver trace performance and long-term reliability against environmental stress on a low surface energy substrate.** Microelectronics Reliability. 2018 Jul 1;86:54-65. <https://doi.org/10.1016/j.microrel.2018.05.010>

Raumonen P, Tarvainen T. **Segmentation of vessel structures from photoacoustic images with reliability assessment.** Biomedical Optics Express. 2018 Jul 1;9(7):2887-2904. <https://doi.org/10.1364/BOE.9.002887>

Pirhonen M, Peltokangas M, Vehkaoja A. **Acquiring respiration rate from photoplethysmographic signal by recursive bayesian tracking of intrinsic modes in time-frequency spectra.** Sensors. 2018 Jun 1;18(6). 1693. <https://doi.org/10.3390/s18061693>

Virtanen J, Somppi S, Törnqvist H, Jeyhani V, Fiedler P, Gizatdinova Y et al. **Evaluation of dry electrodes in canine heart rate monitoring.** Sensors. 2018 Jun 1;18(6). 1757. <https://doi.org/10.3390/s18061757>

Rasappa S, Schulte L, Borah D, Hulkkonen H, Ndoni S, Salminen T et al. **Morphology evolution of PS-b-PDMS block copolymer and its hierarchical directed self-assembly on block copolymer templates.** *Microelectronic Engineering*. 2018 May 15;192:1-7. <https://doi.org/10.1016/j.mee.2018.02.002>

Laudyn UA, Piccardi A, Kwasny M, Karpierz MA, Assanto G. **Thermo-optic soliton routing in nematic liquid crystals.** *Optics Letters*. 2018 May 15;43(10):2296-2299. <https://doi.org/10.1364/OL.43.002296>

Wang Y, Jing W, Loiko P, Zhao Y, Huang H, Mateos X et al. **Sub-10 optical-cycle passively mode-locked Tm:(Lu₂/3Sc₁/3)2O₃ ceramic laser at 2 μm.** *Optics Express*. 2018 Apr 16;26(8):10299-10304. <https://doi.org/10.1364/OE.26.010299>

Mateos X, Loiko P, Lamrini S, Scholle K, Fuhrberg P, Suomalainen S et al. **Ho:KY(WO₄)₂ thin-disk laser passively Qswitched by a GaSb-based SESAM.** *Optics Express*. 2018 Apr 2;26(7):9011-9016. <https://doi.org/10.1364/OE.26.009011>

Kahle H, Nechay K, Penttinen J-P, Tukiainen A, Ranta S, Guina M. **AlGaAs-based vertical-external-cavity surface-emitting laser exceeding 4 W of direct emission power in the 740–790 nm spectral range.** *Optics Letters*. 2018 Apr 1;43(7):1578-1581. <https://doi.org/10.1364/OL.43.001578>

Aho T, Guina M, Elsehrawy F, Cappelluti F, Raappana M, Tukiainen A et al. **Comparison of metal/polymer back reflectors with half-sphere, blazed, and pyramid gratings for light trapping in III-V solar cells.** *Optics Express*. 2018 Mar 19;26(6):A331-A340. <https://doi.org/10.1364/OE.26.00A331>

Elsehrawy F, Niemi T, Cappelluti F. **Guided-mode resonance gratings for enhanced mid-infrared absorption in quantum dot intermediate-band solar cells.** *Optics Express*. 2018 Mar 19;26(6):A352-A359. <https://doi.org/10.1364/OE.26.00A352>

Fedotov A, Noronen T, Gumenyuk R, Ustimchik V, Chamorovskii Y, Golant K et al. **Ultra-large core birefringent Yb-doped tapered double clad fiber for high power amplifiers.** *Optics Express*. 2018 Mar 19;26(6):6581-6592. <https://doi.org/10.1364/OE.26.006581>

Kinen JM, Sahin E, Gotchev A. **Speckle reduction method for image-based coherent stereogram generation.** *Optics Express*. 2018 Mar 5;26(5):5381-5394. <https://doi.org/10.1364/OE.26.005381>

Achimova E, Abaskin V, Claus D, Pedrini G, Shevkunov I, Katkovnik V. **Noise minimized high resolution digital holographic microscopy applied to surface topography.** *Computer Optics*. 2018 Mar 1;42(2):267-272. <https://doi.org/10.18287/2412-6179-2018-42-2-267-272>

Mehrang S, Pietilä J, Korhonen I. **An activity recognition framework deploying the random forest classifier and a single optical heart rate monitoring and triaxial accelerometer wrist-band.** *Sensors*. 2018 Feb 22;18(2). 613. <https://doi.org/10.3390/s18020613>

Zhao Y, Wang Y, Zhang X, Mateos X, Pan Z, Loiko P et al. **87 fs mode-locked Tm,Ho:CaYAIO₄ laser at ~2043 nm.** *Optics Letters*. 2018 Feb 1;43(4):915-918. <https://doi.org/10.1364/OL.43.000915>

Cazac V, Meshalkin A, Achimova E, Abashkin V, Katkovnik V, Shevkunov I et al. **Surface relief and refractive index gratings patterned in chalcogenide glasses and studied by off-axis digital holography.** *Applied Optics*. 2018 Jan 20;57(3):507-513. <https://doi.org/10.1364/AO.57.000507>

Ponomarenko M, Gapon N, Voronin V, Egiazarian K. **Blind estimation of white Gaussian noise variance in highly textured images.** In *Electronic Imaging: Image Processing: Algorithms and Systems XVI*. Society for Imaging Science and Technology. 2018 <https://doi.org/10.2352/ISSN.2470-1173.2018.13.IPAS-382>

Voronin V, Semenishchev E, Ponomarenko M, Agaian S. **Combined local and global image enhancement algorithm.** In *Electronic Imaging: Image Processing: Algorithms and Systems XVI*. Society for Imaging Science and Technology. 2018 <https://doi.org/10.2352/ISSN.2470-1173.2018.13.IPAS-220>

Miroshnichenko O, Ponomarenko M, Lukin V, Egiazarian K. **Compression of signs of DCT coefficients for additional lossless compression of JPEG images.** In Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology. 2018 <https://doi.org/10.2352/ISSN.2470-1173.2018.13.IPAS-385>

Sahin E, Vagharshakyan S, Bregovic R, Lee G, Gotchev A. **Conversion of sparsely-captured light field into alias-free fullparallax multiview content.** In Electronic Imaging: Stereoscopic Displays and Applications XXIX. Society for Imaging Science and Technology. 2018. p. 1441-1445 <https://doi.org/10.2352/ISSN.2470-1173.2018.04.SDA-144>

Battisti F, Carli M, De Paola E, Egiazarian K. **Deep p-Fibonacci scattering networks.** In Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology. 2018 <https://doi.org/10.2352/ISSN.2470-1173.2018.13.IPAS-193>

Katkovnik V, Ponomarenko M, Egiazarian K. **Lensless broadband diffractive imaging with improved depth of focus: wavefront modulation by multilevel phase masks.** Journal of Modern Optics. 2018. <https://doi.org/10.1080/09500340.2018.1526344>

Wirdatmadja S, Johari P, Balasubramaniam S, Bae Y, Stachowiak MK, Jornet JM. **Light propagation analysis in nervous tissue for wireless optogenetic nanonetworks.** In Optogenetics and Optical Manipulation 2018. SPIE. 2018. 104820R <https://doi.org/10.1117/12.2288786>

Ponomarenko M, Katkovnik V, Egiazarian K. **Methods and tools for denoising of complex-valued images based on block-matching and high order singular value decomposition.** In Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology. 2018 <https://doi.org/10.2352/ISSN.2470-1173.2018.13.IPAS-306>

Virtanen H, Uusitalo T, Karjalainen M, Ranta S, Viheriala J, Dumitrescu M. **Narrow-linewidth 780 nm DFB lasers fabricated using nanoimprint lithography.** IEEE Photonics Technology Letters. 2018;30(1):51-54. <https://doi.org/10.1109/LPT.2017.2772337>

Wani OM, Zeng H, Wasylczyk P, Priimagi A. **Programming Photoresponse in Liquid Crystal Polymer Actuators with Laser Projector.** Advanced Optical Materials. 2018;6(1). 1700949. <https://doi.org/10.1002/adom.201700949>

Ryczkowski P, Närhi M, Billet C, Merolla JM, Genty G, Dudley JM. **Real-time full-field characterization of transient dissipative soliton dynamics in a mode-locked laser.** Nature Photonics. 2018;12:221–227. <https://doi.org/10.1038/s41566-018-0106-7>

Ieremeiev O, Lukin V, Ponomarenko N, Egiazarian K. **Robust linearized combined metrics of image visual quality.** In Electronic Imaging: Image Processing: Algorithms and Systems XVI. Society for Imaging Science and Technology. 2018 <https://doi.org/10.2352/ISSN.2470-1173.2018.13.IPAS-260>

Kerst T, Sand J, Ihantola S, Peräjärvi K, Nicholl A, Hrncsek E et al. **Standoff alpha radiation detection for hot cell imaging and crime scene investigation.** Optical Review. 2018;25(3):429–436. <https://doi.org/10.1007/s10043-018-0413-8>

Nikkinen J, Savitski V, Reilly S, Dziechciarzyk L, Härkönen A, Kemp A et al. **Sub-100 ps monolithic diamond Raman laser emitting at 573 nm.** IEEE Photonics Technology Letters. 2018;30(11):981-984. <https://doi.org/10.1109/LPT.2018.2806183>

Casula R, Penttinen J-P, Kemp AJ, Guina M, Hastie JE. **1.4 μm continuous-wave diamond Raman laser.** Optics Express. 2017 Dec 11;25(25):31377-31383. <https://doi.org/10.1364/OE.25.031377>

Sattari H, Rashed AR, Ozbay E, Caglayan H. **Bright off-axis directional emission with plasmonic corrugations.** Optics Express. 2017 Dec 11;25(25):30827-30842. <https://doi.org/10.1364/OE.25.030827>

Sala FA, Smyth NF, Laudyn UA, Karpierz MA, Minzoni AA, Assanto G. **Bending reorientational solitons with modulated alignment.** Journal of the Optical Society of America B: Optical Physics. 2017 Dec 1;34(12):2459-2466. <https://doi.org/10.1364/JOSAB.34.002459>

Aho AT, Viheriälä J, Korpijärvi V-M, Koskinen M, Virtanen H, Christensen M et al. **High-Power 1180-nm GaInNAs DBR Laser Diodes.** IEEE Photonics Technology Letters. 2017 Dec 1;29(23):2023-2026. <https://doi.org/10.1109/LPT.2017.2760038>

Nikkinen J, Härkönen A, Guina M. **Sub-50 ps pulses at 620 nm obtained from frequency doubled 1240 nm diamond Raman laser.** Optics Express. 2017 Nov 27;25(24):30365-30370. <https://doi.org/10.1364/OE.25.030365>

Nikkinen J, Härkönen A, Leino I, Guina M. **Generation of Sub-100 ps Pulses at 532, 355, and 266 nm Using a SESAM Q-Switched Microchip Laser.** IEEE Photonics Technology Letters. 2017 Nov 1;29(21):1816-1819. <https://doi.org/10.1109/LPT.2017.2752421>

Bhavitha KB, Nair AK, Perumbilavil S, Joseph S, Kala MS, Saha A et al. **Investigating solvent effects on aggregation behaviour, linear and nonlinear optical properties of silver nanoclusters.** Optical Materials. 2017 Nov 1;73:695-705. <https://doi.org/10.1016/j.optmat.2017.09.024>

Jisha CP, Alberucci A. **Paraxial light beams in structured anisotropic media.** Journal of the Optical Society of America A: Optics and Image Science, and Vision. 2017 Nov 1;34(11):2019-2024. <https://doi.org/10.1364/JOSAA.34.002019>

Gaponenko M, Wittwer VJ, Härkönen A, Suomalainen S, Kuleshov N, Guina M et al. **Diode-pumped Tm: KY(WO₄)₂ laser passively modelocked with a GaSb-SESAM.** Optics Express. 2017 Oct 16;25(21):25760-25766. <https://doi.org/10.1364/OE.25.025760>

Penttinen J-P, Leinonen T, Rantamäki A, Korpijärvi V-M, Kantola E, Guina M. **High power VECSEL prototype emitting at 625 nm.** In Advanced Solid State Lasers 2017: Nagoya, Aichi Japan 1–5 October 2017. Optical Society of America. 2017. ATu1A.8 <https://doi.org/10.1364/ASSL.2017.ATu1A.8>

Katkovnik V, Egiazarian K. **Sparse superresolution phase retrieval from phase-coded noisy intensity patterns.** Optical Engineering. 2017 Sep 1;56(9). 094103. <https://doi.org/10.1117/1.OE.56.9.094103>

Penttinen JP, Leinonen T, Burd S, Guina M. **Tunable narrow-linewidth VECSELs for atomic and molecular physics.** 2017. Paper presented at The 25th Colloquium on High-Resolution Molecular Spectroscopy, Helsinki, Finland.

Penttinen J-P, Leinonen T, Burd SC, Allcock DTC, Leibfried D, Guina M. **VECSEL: a versatile laser tool for ion trappers.** 2017. Paper presented at 1st North American Conference on Trapped Ions, Boulder, United States.

Katkovnik V, Shevkunov I, Petrov NV, Egiazarian K. **Computational super-resolution phase retrieval from multiple phase-coded diffraction patterns: Simulation study and experiments.** Optica. 2017 Jul 20;4(7):786-794. <https://doi.org/10.1364/OPTICA.4.000786>

Petronijevic E, Centini M, Belardini A, Leahu G, Hakkarainen T, Sibilia C. **Chiral near-field manipulation in Au-GaAs hybrid hexagonal nanowires.** Optics Express. 2017 Jun 26;25(13):14148-14157. <https://doi.org/10.1364/OE.25.014148>

Stoykova E, Berberova N, Kim Y, Nazarova D, Ivanov B, Gotchev A et al. **Dynamic speckle analysis with smoothed intensity-based activity maps.** Optics and Lasers in Engineering. 2017 Jun 1;93:55-65. <https://doi.org/10.1016/j.optlaseng.2017.01.012>

Contreras V, Toivonen J, Martinez H. **Enhanced self-mixing interferometry based on volume Bragg gratings and laser diodes emitting at 405-nm wavelengths.** Optics Letters. 2017 Jun 1;42(11):2221-2223. <https://doi.org/10.1364/OL.42.002221>

Reuna J, Polojärvi V, (ed.), Aho T, (ed.), Aho A, (ed.), Isoaho R, (ed.), Tukiainen A, (ed.) et al. **Broadband Anti-reflective Coatings for Multi-junction Solar Cells**. 2017. Paper presented at Optics and Photonics days 2017, Oulu, Finland.

Alberucci A, Jisha CP, Smyth NF, Assanto G. **Reply to "comment on 'Spatial optical solitons in highly nonlocal media'"**. Physical Review A. 2017 May 25;95(5):057802. <https://doi.org/10.1103/PhysRevA.95.057802>

Ustimchik VE, Rissanen J, Popov SM, Chamorovskii YK, Nikitov SA. **Anisotropic tapered polarization-maintaining large mode area optical fibers**. Optics Express. 2017 May 1;25(9):10693-10703. <https://doi.org/10.1364/OE.25.010693>

Turquet L, Kakko JP, Jiang H, Isotalo TJ, Huhtio T, Niemi T et al. **Nonlinear imaging of nanostructures using beams with binary phase modulation**. Optics Express. 2017 May 1;25(9):10441-10448. <https://doi.org/10.1364/OE.25.010441>

Odrizola A, Solanpää J, Kylänpää I, González A, Räsänen E. **Universal scaling relations for the energies of many-electron Hooke atoms**. Physical Review A. 2017 Apr 19;95(4):042511. <https://doi.org/10.1103/PhysRevA.95.042511>

Saccone M, Siiskonen A, Fernandez-Palacio F, Priimägi A, Terraneo G, Resnati G et al. **Halogen bonding stabilizes a cis-azobenzene derivative in the solid state: A crystallographic study**. ACTA CRYSTALLOGRAPHICA SECTION B : STRUCTURAL SCIENCE, CRYSTAL ENGINEERING AND MATERIALS. 2017 Apr 1;73(2):227-233. <https://doi.org/10.1107/S2052520617003444>

Virtanen H, Uusitalo T, Dumitrescu M. **Simulation studies of DFB laser longitudinal structures for narrow linewidth emission**. Optical and Quantum Electronics. 2017 Mar 23;49(4):160. <https://doi.org/10.1007/s11082-017-0993-8>

Leinonen T, Iakovlev V, Sirbu A, Kapon E, Guina M. **33 W continuous output power semiconductor disk laser emitting at 1275 nm**. Optics Express. 2017 Mar 20;25(6):7008-7013. <https://doi.org/10.1364/OE.25.007008>

Luan C, Yang K, Zhao J, Zhao S, Li T, Zhang H et al. **Diode-pumped mode-locked Tm: LuAG laser at 2 μm based on GaSb-SESAM**. Optics Letters. 2017 Feb 15;42(4):839-842. <https://doi.org/10.1364/OL.42.000839>

Jisha CP, Alberucci A. **Spin-orbit interactions in optically active materials**. Optics Letters. 2017 Feb 1;42(3):419-422. <https://doi.org/10.1364/OL.42.000419>

Pavelescu EM, Bălățeanu N, Spânulescu SI, Arola E. **Very high dose electron irradiation effects on photoluminescence from GaInNAs/GaAs quantum wells grown by molecular beam epitaxy**. Optical Materials. 2017 Feb 1;64:361-365. <https://doi.org/10.1016/j.optmat.2016.12.007>

Balanta MAG, Orsi Gordo V, Carvalho ARH, Puustinen J, Alghamdi HM, Henini M et al. **Polarization resolved photoluminescence in GaAs_{1-x}Bi_x/GaAs quantum wells**. Journal of Luminescence. 2017 Feb;182:49-52. <https://doi.org/10.1016/j.jlumin.2016.10.008>

Kovács PT, Zare A, Balogh T, Bregovic R, Gotchev A. **Architectures and codecs for real-time light field streaming**. Journal of Imaging Science and Technology. 2017 Jan 1;61(1):010403. <https://doi.org/10.2352/J.ImagingSci.Technol.2017.61.1.010403>

Perumbilavil S, Piccardi A, Buchnev O, Kauranen M, Strangi G, Assanto G. **All-optical guided-wave random laser in nematic liquid crystals**. Optics Express. 2017;25(5):4672-4679. <https://doi.org/10.1364/OE.25.004672>

Egiazarian K, Danielyan A, Ponomarenko N, Foia A, Ieremeiev O, Lukin V. **BM3D-HVS: Content-Adaptive denoising for improved visual quality**. In Image Processing: Algorithms and Systems XV. 2017. p. 48-55. (Electronic Imaging). <https://doi.org/10.2352/ISSN.2470-1173.2017.13.DPMI-083>

Kordmahaleh AA, Naghashzadegan M, Javaherdeh K, Khoshgoftar M. **Design of a 25 MWe Solar Thermal Power Plant in Iran with Using Parabolic Trough Collectors and a Two-Tank Molten Salt Storage System.** International Journal of Photoenergy. 2017;2017. 4210184. <https://doi.org/10.1155/2017/4210184>

Bomberg M, Miettinen H, Wahlström M, Kaartinen T, Ahoranta S, Lakaniemi A-M et al. **Evaluation of long-term post process inactivation of bioleaching microorganisms.** In 22nd International Biohydrometallurgy Symposium. Trans Tech Publications Ltd. 2017. p. 57-60. (Solid State Phenomena). <https://doi.org/10.4028/www.scientific.net/SSP.262.57>

Ieremeiev O, Lukin V, Ponomarenko N, Egiazarian K. **Full-reference metrics multidistortional analysis.** In Image Processing: Algorithms and Systems XV. 2017. p. 27-35. (Electronic Imaging). <https://doi.org/10.2352/ISSN.2470-1173.2017.13.IPAS-202>

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

Solanpää J, Ciappina MF, Räsänen E. **Optimal control of photoelectron emission by realistic waveforms.** Journal of Modern Optics. 2017;64(17):1784-1792. <https://doi.org/10.1080/09500340.2017.1317857>

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

Borges LR, Bakic PR, Foi A, Maidment ADA, Vieira MAC. **Pipeline for effective denoising of digital mammography and digital breast tomosynthesis.** In Medical Imaging 2017: Physics of Medical Imaging. SPIE. 2017. 1013206. (Progress in biomedical optics and imaging). <https://doi.org/10.1117/12.2255058>

Hannula MK, Lahtonen KT, Isotalo TJ, Saari JS, Valden MO. **Thermal Modification of ALD Grown Titanium Oxide Ultra Thin Film for Photoanode Applications.** 2016. Paper presented at Symposium on Future Prospects for Photonics, Tampere, Finland.

Assanto G, Smyth NF. **Nonlinear guided waves: Preface.** Journal of Nonlinear Optical Physics and Materials. 2016 Dec 1;25(4). 1650041. <https://doi.org/10.1142/S0218863516500417>

Slablab A, Isotalo TJ, Mäkitalo J, Turquet L, COULON P-E, Niemi T et al. **Fabrication of Ion-Shaped Anisotropic Nanoparticles and their Orientational Imaging by Second-Harmonic Generation Microscopy.** Scientific Reports. 2016 Nov 24;6(37469). 37469. <https://doi.org/10.1038/srep37469>

Nikkinen J, Korpijärvi V-M, Leino I, Härkönen A, Guina M. **Frequency-doubled passively Q-switched microchip laser producing 225 ps pulses at 671 nm.** Optics Letters. 2016 Nov 15;41(22):5385-5388. <https://doi.org/10.1364/OL.41.005385>

Burd SC, Allcock DTC, Leinonen T, Penttinen JP, Slichter DH, Srinivas R et al. **VECSEL systems for the generation and manipulation of trapped magnesium ions.** Optica. 2016 Nov 8;3(12):1294-1299. 268119. <https://doi.org/10.1364/OPTICA.3.001294>

Acar E, Peltonen S, Ruotsalainen U. **Adaptive multiresolution method for MAP reconstruction in electron tomography.** Ultramicroscopy. 2016 Nov 1;170:24-34. <https://doi.org/10.1016/j.ultramic.2016.08.002>

Reisberg L, Pärna R, Kikas A, Kuusik I, Kisand V, Hirsimäki M et al. **UPS and DFT investigation of the electronic structure of gas-phase trimesic acid.** Journal of Electron Spectroscopy and Related Phenomena. 2016 Nov;213:11-16. <https://doi.org/10.1016/j.elspec.2016.10.004>

Myllymäki S, Putaala J, Hannu J, Kunnari E, Mäntysalo M. **RF measurements to pinpoint defects in inkjet-printed, thermally and mechanically stressed coplanar waveguides.** Microelectronics Reliability. 2016 Oct 1;65:142-150. <https://doi.org/10.1016/j.microrel.2016.08.021>

Tiihonen J, Kylänpää I, Rantala TT. **General polarizability and hyperpolarizability estimators for the path-integral Monte Carlo method applied to small atoms, ions, and molecules at finite temperatures.** *Physical Review A*. 2016 Sep 26;94(3). 032515. <https://doi.org/10.1103/PhysRevA.94.032515>

Blokhin SA, Bobrov MA, Blokhin AA, Kuzmenkov AG, Vasil'Ev AP, Maleev NA et al. **1.3 μm InAs quantum dot semiconductor disk laser.** 2016. Paper presented at 2016 International Conference Laser Optics, LO 2016, St. Petersburg, Russian Federation. <https://doi.org/10.1109/LO.2016.7549727>

Korobko DA, Okhotnikov OG, Sysoliatin AA, Zolotovskii IO. **Advanced scheme of amplifier similariton laser.** 2016. Paper presented at 2016 International Conference Laser Optics, LO 2016, St. Petersburg, Russian Federation. <https://doi.org/10.1109/LO.2016.7549889>

Ustimchik VE, Vyatkin MY, Popov SM, Chamorovskii YK, Filippov VN, Nikitov SA. **State of polarization in anisotropic tapered fiber with extremely large core diameter.** 2016. Paper presented at 2016 International Conference Laser Optics, LO 2016, St. Petersburg, Russian Federation. <https://doi.org/10.1109/LO.2016.7549956>

Shvetsov-Shilovski NI, Lein M, Madsen LB, Räsänen E, Lemell C, Burgdörfer J et al. **Semiclassical two-step model for strong-field ionization.** *Physical Review A*. 2016 Jul 19;94(1). 013415. <https://doi.org/10.1103/PhysRevA.94.013415>

Piccardi A, Residori S, Assanto G. **Nonlocal soliton scattering in random potentials.** *Journal of Optics*. 2016 Jul 1;18(7). 07LT01. <https://doi.org/10.1088/2040-8978/18/7/07LT01>

Noronen T, Okhotnikov O, Gumenyuk R. **Electronically tunable thulium-holmium modelocked fiber laser for the 1700-1800 nm wavelength band.** *Optics Express*. 2016 Jun 27;24(13):14703-14708. <https://doi.org/10.1364/OE.24.014703>

Burd SC, Leinonen T, Penttinen JP, Allcock DTC, Slichter DH, Srinivas R et al. **Single-frequency 571 nm VECSEL for photo-ionization of magnesium.** In *Proceedings of SPIE: Vertical External Cavity Surface Emitting Lasers (VECSELs) VI*. Vol. 9734. San Francisco: SPIE. 2016. 973411. (SPIE Conference Proceedings). <https://doi.org/10.1117/12.2213398>

Akhmediev N, Kibler B, Baronio F, Belić M, Zhong WP, Zhang Y et al. **Roadmap on optical rogue waves and extreme events.** *Journal of Optics*. 2016 Jun 1;18(6). 063001. <https://doi.org/10.1088/2040-8978/18/6/063001>

Razavi A, Valkama M, Lohan ES. **Robust statistical approaches for RSS-based floor detection in indoor localization.** *Sensors*. 2016 Jun 1;16(6). 793. <https://doi.org/10.3390/s16060793>

Izdebskaya Y, Krolikowski W, Smyth NF, Assanto G. **Vortex stabilization by means of spatial solitons in nonlocal media.** *Journal of Optics*. 2016 May 1;18(5). 054006. <https://doi.org/10.1088/2040-8978/18/5/054006>

Dutta R, Turunen J, Genty G, Friberg AT. **Temporal coherence characterization of supercontinuum pulse trains using Michelson's interferometer.** *Applied Optics*. 2016 Apr 20;55(12):B72-B77. <https://doi.org/10.1364/AO.55.000B72>

Contreras V, Lönnqvist J, Toivonen J. **Detection of single microparticles in airflows by edge-filter enhanced self-mixing interferometry.** *Optics Express*. 2016 Apr 18;24(8):8886-8894. <https://doi.org/10.1364/OE.24.008886>

Viljanen J, Sun Z, Alwahabi ZT. **Microwave assisted laser-induced breakdown spectroscopy at ambient conditions.** *Spectrochimica Acta Part B: Atomic Spectroscopy*. 2016 Apr 1;118:29-36. <https://doi.org/10.1016/j.sab.2016.02.002>

Putaja A, Eich FG, Baldsiefen T, Räsänen E. **Validity of power functionals for a homogeneous electron gas in reduced-density-matrix-functional theory.** *Physical Review A*. 2016 Mar 10;93(3). 032503. <https://doi.org/10.1103/PhysRevA.93.032503>

Sahin E, Katkovnik V, Gotchev A. **Super-resolution in a defocused plenoptic camera: a wave-optics-based approach.** Optics Letters. 2016 Mar 1;41(5):998-1001. <https://doi.org/10.1364/OL.41.000998>

Korpijärvi V-M, Viheriälä J, Koskinen M, Aho AT, Guina M. **High-power temperature-stable GaInNAs distributed Bragg reflector laser emitting at 1180 nm.** Optics Letters. 2016 Feb 15;41(4):657-660. <https://doi.org/10.1364/OL.41.000657>

Van DP, Rimal BP, Andreev S, Tirronen T, Maier M. **Machine-to-machine communications over FiWi enhanced LTE networks: A power-saving framework and end-to-end performance.** Journal of Lightwave Technology. 2016 Feb 15;34(4):1062-1071. <https://doi.org/10.1109/JLT.2015.2510358>

Bregovic R, Kovács P, Gotchev A. **Optimization of light field display-camera configuration based on display properties in spectral domain.** Optics Express. 2016 Feb 8;24(3):3067-3088. <https://doi.org/10.1364/OE.24.003067>

Massera J, Gaussiran M, Głuchowski P, Lastusaari M, Petit L, Hölsä J et al. **Effect of the glass melting condition on the processing of phosphate-based glass-ceramics with persistent luminescence properties.** Optical Materials. 2016 Feb 1;52:56-61. <https://doi.org/10.1016/j.optmat.2015.12.006>

Pavelescu E-M, Polojärvi V, Schramm A, Tukiainen A, Aho A, Zhang W et al. **Effects of insertion of strain-engineering Ga(In)NAs layers on optical properties of InAs/GaAs quantum dots for high-efficiency solar cells.** Optical Materials. 2016 Feb 1;52:177-180. <https://doi.org/10.1016/j.optmat.2015.12.035>

Ryczkowski P, Barbier M, Friberg AT, Dudley JM, Genty G. **Ghost imaging in the time domain.** Nature Photonics. 2016 Feb 1;(10):167-170. <https://doi.org/10.1038/nphoton.2015.274>

Järvinen ST, Toivonen J. **Analysis of single mass-regulated particles in precisely controlled trap using laser-induced breakdown spectroscopy.** Optics Express. 2016 Jan 25;24(2):1314-1323. <https://doi.org/10.1364/OE.24.001314>

Stoykova E, Berberova N, Nazarova D, Gotchev A. **Intensity-based pointwise processing in dynamic laser speckle analysis.** In 2015 11th Conference on Lasers and Electro-Optics Pacific Rim, CLEO-PR 2015. Vol. 2. IEEE. 2016. p. 1-2 <https://doi.org/10.1109/CLEOPR.2015.7376008>

Pajukoski H, Näkki J, Thieme S, Tuominen J, Nowotny S, Vuoristo P. **High performance corrosion resistant coatings by novel coaxial cold- and hot-wire laser cladding methods.** Journal of Laser Applications. 2016;28(1). 012011. <https://doi.org/10.2351/1.4936988>

Sakho EHM, Oluwafemi OS, Perumbilavil S, Philip R, Kala MS, Thomas S et al. **Rapid and facile synthesis of graphene oxide quantum dots with good linear and nonlinear optical properties.** Journal of Materials Science: Materials in Electronics. 2016;27(10):10926–10933. <https://doi.org/10.1007/s10854-016-5204-z>

Wang D, Wang Z, Yue Y, Yu J, Tan C, Li D et al. **Determination of beam incidence conditions based on the analysis of laser interference patterns.** Optik. 2015 Nov 1;126(21):2902-2907. <https://doi.org/10.1016/j.ijleo.2015.07.039>

Alberucci A, Jisha CP, Assanto G. **Nonlinear negative refraction in reorientational soft matter.** Physical Review A. 2015 Sep 18;92(3). 033835. <https://doi.org/10.1103/PhysRevA.92.033835>

Aalto A, Genty G, Laurila T, Toivonen J. **Incoherent broadband cavity enhanced absorption spectroscopy using supercontinuum and superluminescent diode sources.** Optics Express. 2015 Sep 17;23(19):25225-25234. <https://doi.org/10.1364/OE.23.025225>

Stoykova E, Nazarova D, Berberova N, Gotchev A. **Performance of intensity-based non-normalized pointwise algorithms in dynamic speckle analysis.** Optics Express. 2015 Sep 17;23(19):25128-25142. <https://doi.org/10.1364/OE.23.025128>

Frankberg EJ, George L, Efimov A, Honkanen M, Pessi J, Levänen E. **Measuring synthesis yield in graphene oxide synthesis by modified hummers method.** Fullerenes Nanotubes and Carbon Nanostructures. 2015 Sep 2;23(9):755-759. <https://doi.org/10.1080/1536383X.2014.993754>

Korobko DA, Okhotnikov OG, Stoliarov DA, Sysoliatin AA, Zolotovskii IO. **Highly Nonlinear Dispersion Increasing Fiber for Femtosecond Pulse Generation.** Journal of Lightwave Technology. 2015 Sep 1;33(17):3643-3648. 7134708. <https://doi.org/10.1109/JLT.2015.2448941>

Mäkelä J, Tuominen M, Yasir M, Polojärvi V, Aho A, Tukiainen A et al. **Effects of thinning and heating for TiO₂/AlInP junctions.** Journal of Electron Spectroscopy and Related Phenomena. 2015 Aug 24;205:6-9. <https://doi.org/10.1016/j.elspec.2015.08.004>

Giannoulis G, Korpiljärvi V-M, Iliadis N, Mäkelä J, Viheriälä J, Apostolopoulos D et al. **Bringing High-Performance GaInNAsSb/GaAs SOAs to True Data Applications.** IEEE Photonics Technology Letters. 2015 Aug 15;27(16):1691-1694. 7113825. <https://doi.org/10.1109/LPT.2015.2436697>

Levin M, Rojas E, Vanhala E, Vippola M, Liguori B, Kling KI et al. **Influence of relative humidity and physical load during storage on dustiness of inorganic nanomaterials: implications for testing and risk assessment.** Journal of Nanoparticle Research. 2015 Aug 14;17(8). 337. <https://doi.org/10.1007/s11051-015-3139-6>

Baron A, Faggiani R, Zang X, Lalouat L, Schulz SA, Vynck K et al. **Localization of light at vanishingly small disorder-levels with heavy photons.** In 2015 Conference on Lasers and Electro-Optics, CLEO 2015. Vol. 2015-August. Optical Society of America OSA. 2015. 7183319 https://doi.org/10.1364/CLEO_QELS.2015.FW1C.4

Sanginés R, Contreras V, Sobral H, Robledo-Martinez A. **Optimal emission enhancement in orthogonal double-pulse laser-induced breakdown spectroscopy.** Spectrochimica Acta Part B: Atomic Spectroscopy. 2015 Jul 6;110:139-145. 4935. <https://doi.org/10.1016/j.sab.2015.06.012>

Tiihonen J, Kylänpää I, Rantala TT. **Adiabatic and nonadiabatic static polarizabilities of H and H₂.** Physical Review A. 2015 Jun 12;91(6). 062503. <https://doi.org/10.1103/PhysRevA.91.062503>

Momeni D, Gholizade H, Raza M, Myrzakulov R. **Tolman-Oppenheimer-Volkoff equations in nonlocal f(R) gravity.** International Journal of Modern Physics A. 2015 Jun 10;30(16). 1550093. <https://doi.org/10.1142/S0217751X15500931>

Toenger S, Godin T, Billet C, Dias F, Erkintalo M, Genty G et al. **Dynamics of rogue wave and soliton emergence in spontaneous modulation instability.** In CLEO: QELS - Fundamental Science, CLEO_QELS 2015. Optical Society of America (OSA). 2015 https://doi.org/10.1364/CLEO_QELS.2015.FW4D.2

Vignion-Dewalle AS, Betrouni N, Tylcz JB, Vermandel M, Mortier L, Mordon S. **Comparison of three light doses in the photodynamic treatment of actinic keratosis using mathematical modeling.** JOURNAL OF BIOMEDICAL OPTICS. 2015 May 1;20(5). 058001. <https://doi.org/10.1117/1.JBO.20.5.058001>

Koivisto AJ, Aromaa M, Koponen IK, Fransman W, Jensen KA, Mäkelä JM et al. **Workplace performance of a loose-fitting powered air purifying respirator during nanoparticle synthesis.** Journal of Nanoparticle Research. 2015 Apr 9;17(4). <https://doi.org/10.1007/s11051-015-2990-9>

Liu X, Fan Y, Tentzeris MM. **An integrated "sense-and-communicate" broad/narrow-band optically controlled reconfigurable antenna for cognitive radio systems.** Microwave and Optical Technology Letters. 2015 Apr 1;57(4):1016-1023. <https://doi.org/10.1002/mop.29004>

Korobko DA, Okhotnikov OG, Stoliarov DA, Sysolyatin AA, Zolotovskii IO. **Broadband infrared continuum generation in dispersion shifted tapered fiber.** Journal of the Optical Society of America B. 2015 Apr 1;32(4):692-700. <https://doi.org/10.1364/JOSAB.32.000692>

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

Aleksandrov V, Gluth A, Petrov V, Buchvarov I, Steinmeyer G, Paajaste J et al. **Mode-locked Tm,Ho:KLu(WO₄)₂ laser at 2060 nm using InGaSb-based SESAMs.** Optics Express. 2015 Feb 23;23(4):4614-4619. <https://doi.org/10.1364/OE.23.004614>

Miyamoto I, Okamoto Y, Hansen A, Vihinen J, Amberla T, Kangastupa J. **High speed, high strength microwelding of Si/glass using ps-laser pulses.** Optics Express. 2015 Feb 9;23(3):3427-3439. <https://doi.org/10.1364/OE.23.003427>

Gluth A, Wang Y, Petrov V, Paajaste J, Suomalainen S, Härkönen A et al. **GaSb-based SESAM mode-locked Tm: YAG ceramic laser at 2 μ m.** Optics Express. 2015 Jan 26;23(2):1361-1369. <https://doi.org/10.1364/OE.23.001361>

Ling K, Yoo M, Su W, Kim K, Cook B, Tentzeris MM et al. **Microfluidic tunable inkjet-printed metamaterial absorber on paper.** Optics Express. 2015 Jan 12;23(1):110-120. <https://doi.org/10.1364/OE.23.000110>

Morozov YA, Morozov MY, Kozlovsky VI, Okhotnikov OG. **Compact intracavity singly-resonant optical parametric oscillator pumped by GaSb-based vertical external cavity surface-emitting laser: Concept and the main operational characteristics.** IEEE Journal of Selected Topics in Quantum Electronics. 2015 Jan 1;21(1). <https://doi.org/10.1109/JSTQE.2014.2385310>

Zolotovskii IO, Korobko DA, Okhotnikov OG. **Frequency modulation of semiconductor disk laser pulses.** Quantum Electronics. 2015;45(7):628-634. <https://doi.org/10.1070/QE2015v045n07ABEH015670>

Zolotovskii IO, Korobko DA, Okhotnikov OG, Stolyarov DA, Sysolyatin AA. **Generation of a broad IR spectrum and N-soliton compression in a longitudinally inhomogeneous dispersion-shifted fibre.** Quantum Electronics. 2015;45(9):844-852. <https://doi.org/10.1070/QE2015v045n09ABEH015690>

Zolotovskii IO, Korobko DA, Gumenyuk RV, Okhotnikov OG. **Generation of bound states of pulses in a soliton laser with complex relaxation of a saturable absorber.** Quantum Electronics. 2015;45(1):26-34. <https://doi.org/10.1070/QE2015v045n01ABEH015558>

Fitsios D, Giannoulis G, Korpiljärvi VM, Viheriälä J, Laakso A, Iliadis N et al. **High-gain 1.3 μ m GaInNAs semiconductor optical amplifier with enhanced temperature stability for all-optical signal processing at 10 Gb/s.** Applied Optics. 2015;54(1):46-52. <https://doi.org/10.1364/AO.54.000046>

Leroy HA, Vermandel M, Tétard MC, Lejeune JP, Mordon S, Reyns N. **Interstitial photodynamic therapy and glioblastoma: Light fractionation study on a preclinical model: Preliminary results.** In Optical Techniques in Neurosurgery, Neurophotonics, and Optogenetics II. Vol. 9305. SPIE. 2015. 93050D <https://doi.org/10.1117/12.2079347>

Assanto G, Smyth NF. **Light-Induced Waveguides in Nematic Liquid Crystals.** IEEE Journal of Selected Topics in Quantum Electronics. 2015;22(2). 7128341. <https://doi.org/10.1109/JSTQE.2015.2446762>

Izdebskaya Y, Assanto G, Krolikowski W. **Observation of stable-vector vortex solitons.** Optics Letters. 2015;40(17):4182-4185. <https://doi.org/10.1364/OL.40.004182>

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

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

Zang X, Lalanne P. **Theoretical treatment of the interaction between two-level atoms and periodic waveguides.** Optics Letters. 2015;40(16):3869-3872. <https://doi.org/10.1364/OL.40.003869>

Dutta R, Friberg AT, Genty G, Turunen J. **Two-time coherence of pulse trains and the integrated degree of temporal coherence.** Journal of the Optical Society of America A: Optics Image Science and Vision. 2015;32(9):1631-1637. <https://doi.org/10.1364/JOSAA.32.001631>

Nazir R, Bourquard F, Balčiūnas E, Smoleń S, Gray D, Tkachenko NV et al. **π -Expanded α,β -unsaturated ketones: Synthesis, optical properties, and two-photon-induced polymerization.** ChemPhysChem. 2015;16(3):682–690. <https://doi.org/10.1002/cphc.201402646>

Rantamäki A, Heikkinen J, Gumenyuk R, Lytikäinen J, Saarinen EJ, Leinonen T et al. **Mode-locked 1.33 μm semiconductor disk laser with a bismuth-doped fiber amplifier.** In ISLC 2014, IEEE 24th International Semiconductor Laser Conference, 7-10 September, 2014, Mallorca, Spain. The Institute of Electrical and Electronics Engineers, Inc. 2014. p. 123-124. 6987481. (IEEE International Semiconductor Laser Conference). <https://doi.org/10.1109/ISLC.2014.194>

Tiihonen J. **Vedyn Stark-ilmion ja polarisoituvuuksien mallintaminen polkuintegraali-Monte Carlo-menetelmällä.** Tampere University of Technology, 2014. 50 p.

Ye C, Petit L, Koponen JJ, Hu IN, Galvanauskas A. **Short-Term and Long-Term Stability in Ytterbium-Doped High-Power Fiber Lasers and Amplifiers.** IEEE Journal of Selected Topics in Quantum Electronics. 2014 Sep 1;20(5). 6762841. <https://doi.org/10.1109/JSTQE.2014.2310657>

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

Ouskova E, Pshenychnyi A, Sánchez-Ferrer A, Lysenko D, Vapaavuori J, Kaivola M. **Enhanced nonlinearity by H-bonded polymer-dye complex in liquid crystal for holographic gratings.** Journal of the Optical Society of America B. 2014 Jul 1;31(7):1456-1464. <https://doi.org/10.1364/JOSAB.31.001456>

Heikkinen J, Gumenyuk R, Rantamäki A, Leinonen T, Melkumov M, Dianov EM et al. **A 1.33 μm picosecond pulse generator based on semiconductor disk mode-locked laser and bismuth fiber amplifier.** Optics Express. 2014 May 19;22(10):11446-11455. <https://doi.org/10.1364/OE.22.011446>

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

Gumenyuk R, Korobko DA, Zolotovskiy IO, Okhotnikov OG. **Role of cavity dispersion on soliton grouping in a fiber lasers.** Optics Express. 2014 Jan 27;22(2):1896-1905. <https://doi.org/10.1364/OE.22.001896>

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

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

Yi X, Cho C, Cooper J, Wang Y, Tentzeris MM, Leon RT. **Passive wireless antenna sensor for strain and crack sensing - Electromagnetic modeling, simulation, and testing.** Smart Materials and Structures. 2013 Aug;22(8). 085009. <https://doi.org/10.1088/0964-1726/22/8/085009>

Marrucci L, Smyth NF, Assanto G. **Optical vortices in antiguides**. Optics Letters. 2013 May 15;38(10):1618-1620. <https://doi.org/10.1364/OL.38.001618>

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

Makitalo J, Suuriniemi S, Kauranen M. **Boundary element method for surface nonlinear optics of nanoparticles: Erratum**. Optics Express. 2013 Apr 22;21(8):10205-10206. <https://doi.org/10.1364/OE.21.010205>

Assanto G, Smyth NF. **Comment on "solitons in highly nonlocal nematic liquid crystals: Variational approach"**. Physical Review A. 2013 Apr 17;87(4). 047801. <https://doi.org/10.1103/PhysRevA.87.047801>

Ma L, Wang J, Wang G. **Dipole polarizabilities of PdN (N = 2-25) clusters**. European Physical Journal D. 2013 Jan;67(1). 6. <https://doi.org/10.1140/epjd/e2012-30550-1>

Trikshev AI, Kurkov AS, Tsvetkov VB, Filatova SA, Kertulla J, Filippov V et al. **160W single-frequency laser based on active tapered double-clad fiber amplifier**. In Optics InfoBase Conference Papers. 2013

Şahin E, Onural L. **Calculation of the scalar diffraction field from curved surfaces by decomposing the three-dimensional field into a sum of Gaussian beams**. Journal of the Optical Society of America A: Optics Image Science and Vision. 2013;30(3):527-536.

Izdebskaya YV, Desyatnikov AS, Assanto G, Kivshar YS. **Deflection of nematicons through interaction with dielectric particles**. Journal of the Optical Society of America B. 2013;30(6):1432-1437. <https://doi.org/10.1364/JOSAB.30.001432>

Sorvajarvi T, Rossi J, Toivonen J. **Detection of KC1 and KOH using collinear photofragmentation and atomic absorption spectroscopy**. In The European Conference on Lasers and Electro-Optics, CLEO_Europe 2013. 2013

Cakmakyapan S, Serebryannikov AE, Caglayan H, Ozbay E. **Spoof-plasmon relevant one-way collimation and multiplexing at beaming from a slit in metallic grating**. Optics Express. 2012 Nov 19;20(24):26636-26648. <https://doi.org/10.1364/OE.20.026636>

Izdebskaya YV, Rebling J, Desyatnikov AS, Assanto G, Kivshar YS. **All-optical switching of a signal by a pair of interacting nematicons**. Optics Express. 2012 Oct 22;20(22):24701-24707. <https://doi.org/10.1364/OE.20.024701>

Assanto G, Smyth NF, Xia W. **Refraction of nonlinear light beams in nematic liquid crystals**. Journal of Nonlinear Optical Physics and Materials. 2012 Sep;21(3). 1250033. <https://doi.org/10.1142/S0218863512500336>

Şahin E, Onural L. **Scalar diffraction field calculation from curved surfaces via Gaussian beam decomposition**. Journal of the Optical Society of America A: Optics Image Science and Vision. 2012 Jul 1;29(7):1459-1469. <https://doi.org/10.1364/JOSAA.29.001459>

Li Z, Alici KB, Caglayan H, Kafesaki M, Soukoulis CM, Ozbay E. **Composite chiral metamaterials with negative refractive index and high values of the figure of merit**. Optics Express. 2012 Mar 12;20(6):6146-6156. <https://doi.org/10.1364/OE.20.006146>

Cuyon L, Lesage JC, Betrouni N, Mordon S. **Development of a new illumination procedure for photodynamic therapy of the abdominal cavity**. JOURNAL OF BIOMEDICAL OPTICS. 2012 Mar;17(3). 038001. <https://doi.org/10.1117/1.JBO.17.3.038001>

- Slablab A, Le Xuan L, Zielinski M, De Wilde Y, Jacques V, Chauvat D et al. **Second-harmonic generation from coupled plasmon modes in a single dimer of gold nanospheres**. *Optics Express*. 2012 Jan 2;20(1):220-227. <https://doi.org/10.1364/OE.20.000220>
- Busacca AC, Stivala S, Curcio L, Assanto G. **Parametric conversion in micrometer and submicrometer structured ferroelectric crystals by surface poling**. *International Journal of Optics*. 2012;2012. 606892. <https://doi.org/10.1155/2012/606892>
- Iliopoulos K, Czaplicki R, Ouazzani HE, Balandier J-Y, Chas M, Goeb S et al. **Third order nonlinear optical response of TTF-based molecular corners**. *Nonlinear Optics, Quantum Optics*. 2012;43(1-4):205-212.
- Stivala S, Buccheri F, Curcio L, Oliveri RL, Busacca AC, Assanto G. **Features of randomized electric-field assisted domain inversion in lithium tantalate**. *Optics Express*. 2011 Dec 5;19(25):25780-25785.
- Zhong WP, Belić MR, Assanto G. **Localized nonlinear wavepackets with radial-azimuthal modulated nonlinearity and an external potential**. *Physica Scripta*. 2011 Nov;84(5). 055001. <https://doi.org/10.1088/0031-8949/84/05/055001>
- Koponen JJ, Petit L, Kokki T, Aallos V, Paul J, Ihalainen H. **Progress in direct nanoparticle deposition for the development of the next generation fiber lasers**. *Optical Engineering*. 2011 Nov;50(11). 111605. <https://doi.org/10.1117/1.3613944>
- Izdebskaya YV, Desyatnikov AS, Assanto G, Kivshar YS. **Dipole azimuthons and vortex charge flipping in nematic liquid crystals**. *Optics Express*. 2011 Oct 24;19(22):21457-21466. <https://doi.org/10.1364/OE.19.021457>
- Zhong WP, Belić M, Assanto G, Malomed BA, Huang T. **Light bullets in the spatiotemporal nonlinear Schrödinger equation with a variable negative diffraction coefficient**. *Physical Review A*. 2011 Oct 3;84(4). 043801. <https://doi.org/10.1103/PhysRevA.84.043801>
- Assanto G, Smyth NF, Xia W. **Modulation analysis of nonlinear beam refraction at an interface in liquid crystals**. *Physical Review A*. 2011 Sep 13;84(3). 033818. <https://doi.org/10.1103/PhysRevA.84.033818>
- Shimamura A, Priimagi A, Mamiya JI, Kinoshita M, Ikeda T, Shishido A. **Photoinduced bending upon pulsed irradiation in azobenzene-containing crosslinked liquid-crystalline polymers**. *Journal of Nonlinear Optical Physics and Materials*. 2011 Sep;20(4):405-413. <https://doi.org/10.1142/S0218863511006200>
- Alasaarela T, Zheng D, Huang L, Priimagi A, Bai B, Tervonen A et al. **Single-layer one-dimensional nonpolarizing guided-mode resonance filters under normal incidence**. *Optics Letters*. 2011 Jul 1;36(13):2411-2413. <https://doi.org/10.1364/OL.36.002411>
- Asquini R, Gilardi G, D'Alessandro A, Assanto G. **Integrated Bragg reflectors in low-index media: Enabling strategies for wavelength tunability in electro-optic liquid crystals**. *Optical Engineering*. 2011 Jul;50(7). 071108. <https://doi.org/10.1117/1.3559210>
- Zhong WP, Belić M, Assanto G, Huang T. **Three-dimensional spatiotemporal vector solitary waves**. *JOURNAL OF PHYSICS B: ATOMIC MOLECULAR AND OPTICAL PHYSICS*. 2011 May 14;44(9). 095403. <https://doi.org/10.1088/0953-4075/44/9/095403>
- Zhong WP, Belić MR, Assanto G, Malomed BA, Huang T. **Self-trapping of scalar and vector dipole solitary waves in Kerr media**. *Physical Review A*. 2011 Apr 27;83(4). 043833. <https://doi.org/10.1103/PhysRevA.83.043833>
- Sorianello V, Colace L, Assanto G, Nardone M. **Micro-Raman characterization of Germanium thin films evaporated on various substrates**. *Microelectronic Engineering*. 2011 Apr;88(4):492-495. <https://doi.org/10.1016/j.mee.2010.10.028>

- Colace L, Soriano V, Romagnoli M, Socci L, Assanto G. **Optical power monitors in Ge monolithically integrated on SOI chips**. *Microelectronic Engineering*. 2011 Apr;88(4):514-517. <https://doi.org/10.1016/j.mee.2010.10.033>
- Soriano V, Colace L, Assanto G, Notargiacomo A, Armani N, Rossi F et al. **Thermal evaporation of Ge on Si for near infrared detectors: Material and device characterization**. *Microelectronic Engineering*. 2011 Apr;88(4):526-529. <https://doi.org/10.1016/j.mee.2010.09.024>
- Alberucci A, Assanto G. **On beam propagation in anisotropic media: One-dimensional analysis**. *Optics Letters*. 2011 Feb 1;36(3):334-336. <https://doi.org/10.1364/OL.36.000334>
- Izdebskaya YV, Desyatnikov AS, Assanto G, Kivshar YS. **Multimode nematic waveguides**. *Optics Letters*. 2011 Jan 15;36(2):184-186.
- Sapaev UK, Kulagin IA, Usmanov T, Assanto G. **Nonlinear pulse compression by the second-harmonic generation in quasiphase and group-velocity matched samples**. *JOURNAL OF RUSSIAN LASER RESEARCH*. 2011 Jan;32(1):41-46. <https://doi.org/10.1007/s10946-011-9187-1>
- Piccardi A, Alberucci A, Assanto G, Tabiryan N. **Dark solitons in nematic liquid crystals**. In *Optics InfoBase Conference Papers*. 2011 <https://doi.org/10.1364/NLO.2011.NWE4>
- Cakmakyapan S, Caglayan H, Serebryannikov A, Ozbay E. **Directional selectivity through the subwavelength slit in metallic gratings**. In *2011 Conference on Lasers and Electro-Optics: Laser Science to Photonic Applications, CLEO 2011*. 2011. 5951099
- Cakmakyapan S, Caglayan H, Serebryannikov A, Ozbay E. **Directional selectivity through the subwavelength slit in metallic gratings**. In *CLEO: Applications and Technology*. 2011 https://doi.org/10.1364/CLEO_AT.2011.JTuI67
- Cakmakyapan S, Caglayan H, Serebryannikov A, Ozbay E. **Directional selectivity through the subwavelength slit in metallic gratings**. In *CLEO: Science and Innovations 2011*. 2011 https://doi.org/10.1364/CLEO_AT.2011.JTuI67
- Cakmakyapan S, Caglayan H, Serebryannikov A, Ozbay E. **Directional selectivity through the subwavelength slit in metallic gratings**. In *Quantum Electronics and Laser Science Conference, QELS 2011*. 2011 https://doi.org/10.1364/CLEO_AT.2011.JTuI67
- Izdebskaya YV, Desyatnikov AS, Assanto G, Kivshar YS. **Multimode waveguides in nematic liquid crystals**. In *Conference on Lasers and Electro-Optics/Pacific Rim, CLEOPR 2011*. 2011. p. 1912-1913
- Veselov A, Efimov A, Chamorovskiy A, Okhotnikov O, Kosolapov A, Levchenko A et al. **Self-assembled monolayers (SAMs) of porphyrin deposited inside solid-core photonic crystal fibre (SCPCF)**. In *Access Networks and In-house Communications, ANIC 2011*. 2011
- Izdebskaya YV, Desyatnikov AS, Assanto G, Kivshar Y. **Spatial solitons carrying phase singularities in nematic liquid crystals**. In *Conference on Lasers and Electro-Optics/Pacific Rim, CLEOPR 2011*. 2011. p. 444-445
- Piccardi A, Alberucci A, Assanto G, Kaczmarek M. **Spatial solitons in a self-focusing medium with tunable nonlinearity**. In *Optics InfoBase Conference Papers*. 2011 <https://doi.org/10.1364/NLO.2011.NWE7>
- Caglayan H, Engheta N. **Theory of near-IR metatronic nanocircuits using transparent conducting oxides (TCO)**. In *Frontiers in Optics 2011*. Optical Society of America. 2011 <https://doi.org/10.1364/FIO.2011.FTuG2>
- Peccianti M, Pasquazi A, Assanto G, Morandotti R. **Third harmonic generation enhancement in nematic liquid crystals via nonlocal solitons propagation**. In *CLEO: Science and Innovations, CLEO_SI 2011*. 2011

Dantelle G, Slablab A, Rondin L, Lainé F, Carrel F, Bergonzo P et al. **Efficient production of NV colour centres in nanodiamonds using high-energy electron irradiation.** Journal of Luminescence. 2010 Sep;130(9):1655-1658. <https://doi.org/10.1016/j.jlumin.2009.12.003>

Cakmakyapan S, Serebryannikov AE, Caglayan H, Ozbay E. **One-way transmission through the subwavelength slit in nonsymmetric metallic gratings.** Optics Letters. 2010 Aug 1;35(15):2597-2599. <https://doi.org/10.1364/OL.35.002597>

Li Z, Caglayan H, Colak E, Zhou J, Soukoulis CM, Ozbay E. **Coupling effect between two adjacent chiral structure layers.** Optics Express. 2010 Mar 15;18(6):5375-5383. <https://doi.org/10.1364/OE.18.005375>

Stepien M, Saarinen JJ, Teisala H, Tuominen M, Aromaa M, Kuusipalo J et al. **Controlled wettability of paperboard by nanoparticles using liquid flame spray process.** In International Conference on Nanotechnology for the Forest Products Industry 2010. 2010. p. 1390-1392

Piccardi A, Alberucci A, Bertolozzo U, Residori S, Assanto G. **Nematicon routing in liquid crystal light valve.** In Optics InfoBase Conference Papers. 2010

Piccardi A, Alberucci A, Assanto G. **Soliton self-deflection via power-dependent walk-off.** In Optics InfoBase Conference Papers. 2010 <https://doi.org/10.1364/NP.2010.NMD1>

Colak E, Caglayan H, Cakmak AO, Villa AD, Capolino F, Ozbay E. **Frequency dependent steering with backward leaky waves via photonic crystal interface layer.** Optics Express. 2009 Jun 8;17(12):9879-9890. <https://doi.org/10.1364/OE.17.009879>

Wnuk P, Xuan LL, Slablab A, Tard C, Perruchas S, Gacoin T et al. **Coherent nonlinear emission from a single KTP nanoparticle with broadband femtosecond pulses.** Optics Express. 2009 Mar 16;17(6):4652-4658. <https://doi.org/10.1364/OE.17.004652>

Caglayan H, Bulu I, Loncar M, Ozbay E. **Experimental observation of subwavelength localization using metamaterial-based cavities.** Optics Letters. 2009 Jan 1;34(1):88-90. <https://doi.org/10.1364/OL.34.000088>

Assanto G, Peccianti M, Alberucci A, Piccardi A. **Routing light with nematicons: Light localization and steering in liquid crystals.** In Optics InfoBase Conference Papers. Optical Society of America. 2009. p. 2281-2282 <https://doi.org/10.1364/IQEC.2009.ITuG1>

Le Xuan L, Slablab A, Zhou C, Chauvat D, De Wilde Y, Perruchas S et al. **Single KTiOPO4 nanocrystals for nonlinear probing of local optical fields and interaction with a metallic nanostructure.** In Optics InfoBase Conference Papers. Optical Society of America. 2009

Caglayan H, Bulu I, Loncar M, Ozbay E. **Cavity formation in split ring resonators.** Photonics and Nanostructures - Fundamentals and Applications. 2008 Dec;6(3-4):200-204. <https://doi.org/10.1016/j.photonics.2008.09.001>

Caglayan H, Ozbay E. **Surface wave splitter based on metallic gratings with sub-wavelength aperture.** Optics Express. 2008 Nov 10;16(23):19091-19096. <https://doi.org/10.1364/OE.16.019091>

Caglayan H, Bulu I, Loncar M, Ozbay E. **Experimental observation of cavity formation in composite metamaterials.** Optics Express. 2008 Jul 21;16(15):11132-11140. <https://doi.org/10.1364/OE.16.011132>

Caglayan H, Bulu I, Loncar M, Ozbay E. **Observation of defect formation in metamaterials.** In Plasmonics and Metamaterials 2008. Optical Society of America. 2008. MMC7 https://doi.org/10.1364/META_PLAS.2008.MMC7

Bulu I, Caglayan H, Aydin K, Ozbay E. **Study of the field emitted by a source placed inside a two-dimensional left-handed metamaterial.** Optics Letters. 2007 Apr 1;32(7):850-852. <https://doi.org/10.1364/OL.32.000850>

Bulu I, Caglayan H, Ozbay E. **Designing materials with desired electromagnetic properties.** Microwave and Optical Technology Letters. 2006 Dec;48(12):2611-2615. <https://doi.org/10.1002/mop.21988>

Caglayan H, Bulu I, Ozbay E. **Plasmonic structures with extraordinary transmission and highly directional beaming properties.** Microwave and Optical Technology Letters. 2006 Dec;48(12):2491-2496. <https://doi.org/10.1002/mop.22015>

Bulu I, Caglayan H, Ozbay E. **Experimental demonstration of subwavelength focusing of electromagnetic waves by labyrinth-based two-dimensional metamaterials.** Optics Letters. 2006;31(6):814-816. <https://doi.org/10.1364/OL.31.000814>

Nilsson J, Sahu JK, Jeong Y, Filippov VN, Soh DBS, Codemard CA et al. **High power fiber lasers.** In Optics InfoBase Conference Papers. Optical Society of America. 2006

Bulu I, Caglayan H, Ozbay E. **Experimental demonstration of labyrinth-based left-handed metamaterials.** Optics Express. 2005 Dec 12;13(25):10238-10247. <https://doi.org/10.1364/OPEX.13.010238>

Bulu I, Caglayan H, Ozbay E. **Beaming of light and enhanced transmission via surface modes of photonic crystals.** Optics Letters. 2005 Nov 15;30(22):3078-3080. <https://doi.org/10.1364/OL.30.003078>

Caglayan H, Bulu I, Ozbay E. **Highly directional enhanced radiation from sources embedded inside three-dimensional photonic crystals.** Optics Express. 2005 Sep 19;13(19):7645-7652. <https://doi.org/10.1364/OPEX.13.007645>

Ozbay E, Bulu I, Aydin K, Caglayan H, Alici KB, Guven K. **Highly directive radiation and negative refraction using photonic crystals.** Laser Physics. 2005 Feb;15(2):217-224.

Peccianti M, Alberucci A, Assanto G, De Luca A, Coschignano G, Umeton C. **Walking anisotropic spatial solitons and their steering in nematic liquid crystals.** In Nonlinear Guided Waves and Their Applications, NLGW 2005. Optical Society of America OSA. 2005 <https://doi.org/10.1364/NLGW.2005.FA1>

Caglayan H, Bulu I, Ozbay E. **Extraordinary grating-coupled microwave transmission through a subwavelength annular aperture.** Optics Express. 2005;13(5):1666-1671. <https://doi.org/10.1364/OPEX.13.001666>

Ozbay E, Bulu I, Aydin K, Caglayan H, Guven K. **Physics and applications of photonic crystals.** Photonics and Nanostructures - Fundamentals and Applications. 2004 Oct;2(2):87-95. <https://doi.org/10.1016/j.photonics.2004.08.001>

Kantola JH, Vaara J, Rantala TT, Jokisaari J. **¹²⁹Xe adsorbed in AlPO₄-11 molecular sieve: Molecular dynamics simulation of adsorbate dynamics and NMR chemical shift.** Journal of Chemical Physics. 1997 Oct 22;107(16):6470-6478. <https://doi.org/10.1063/1.475135>

Hyvönen M, Ala-Korpela M, Vaara J, Rantala TT, Jokisaari J. **Inequivalence of single CH_a and CH_b methylene bonds in the interior of a diunsaturated lipid bilayer from a molecular dynamics simulation.** Chemical Physics Letters. 1997 Apr 4;268(1-2):55-60. [https://doi.org/10.1016/S0009-2614\(97\)00171-1](https://doi.org/10.1016/S0009-2614(97)00171-1)

Valkealahti S, Manninen M. **Diffusion processes and growth on aluminum cluster surfaces.** Zeitschrift für Physik D-Atoms Molecules and Clusters. 1997 Jan 1;40(1-4):496-502. <https://doi.org/10.1007/s004600050262>

Valkealahti S, Manninen M. **Structural transitions and melting of copper clusters.** Zeitschrift für Physik D Atoms, Molecules and Clusters. 1993 Mar 1;26(1):255-257. <https://doi.org/10.1007/BF01429161>

Rantala TT, Jelski DA, Bowser JR, Xia X, George TF. **Analysis of the magic numbers observed for metallocarbohedrane clusters**. Zeitschrift für Physik D Atoms, Molecules and Clusters. 1993 Mar;26(1 Supplement):255-257. <https://doi.org/10.1007/BF01425682>

Valkealahti S, Manninen M, Hammarén E. **Simulation of cluster impact fusion**. Zeitschrift für Physik D Atoms, Molecules and Clusters. 1992 Jun 1;22(2):547-551. <https://doi.org/10.1007/BF01426097>

Lounila J, Rantala TT. **Effects of repulsion and dispersion forces in liquid crystals: Alignment and deformation of H₂ solute**. Physical Review A. 1991;44(10):6641-6651. <https://doi.org/10.1103/PhysRevA.44.6641>

Jelski DA, Swift BL, Rantala TT, Xia X, George TF. **Structure of the Si₄₅ cluster**. Journal of Chemical Physics. 1991;95(11):8552-8560. <https://doi.org/10.1063/1.461813>

Rantala TT, Stockman MI, Jelski DA, George TF. **Linear and nonlinear optical properties of small silicon clusters**. Journal of Chemical Physics. 1990;93(10):7427-7438. <https://doi.org/10.1063/1.459417>

Valkealahti S, Nieminen RM. **Molecular dynamics investigation of the premelting effects of lennard-jones (111) surfaces**. Physica Scripta. 1987 Oct 1;36(4):646-650. <https://doi.org/10.1088/0031-8949/36/4/007>

Rantala TT, Wästberg B, Rosén A. **Potential energy curves for diatomic molecules calculated with numerical basis functions**. Chemical Physics. 1986 Nov 15;109(2-3):261-268. [https://doi.org/10.1016/0301-0104\(86\)87056-2](https://doi.org/10.1016/0301-0104(86)87056-2)

Rosén A, Rantala TT. **Analysis of the reactivity of small cobalt clusters**. Zeitschrift für Physik D Atoms, Molecules and Clusters. 1986 Jun;3(2):205-209. <https://doi.org/10.1007/BF01384808>

Rantala TT, Rosén A, Hellsing B. **A finite cluster approach to the electron-hole pair damping of the adsorbate vibration: CO adsorbed on Cu(100)**. Journal of Electron Spectroscopy and Related Phenomena. 1986;39(C):173-181. [https://doi.org/10.1016/0368-2048\(86\)85045-9](https://doi.org/10.1016/0368-2048(86)85045-9)

Väyrynen J, Rantala TT, Minni E, Suoninen E. **Anomalous Auger-electron spectra of metallic calcium**. Journal of Electron Spectroscopy and Related Phenomena. 1983;31(3):293-305. [https://doi.org/10.1016/0368-2048\(83\)85077-4](https://doi.org/10.1016/0368-2048(83)85077-4)

Rantala T, Väyrynen J, Kumpula R, Aksela S. **Direct measurement of the kinetic energy shift between the molecular and atomic M_{4.5}N_{4.5}N_{4.5} Auger spectra of iodine**. Chemical Physics Letters. 1979 Oct 1;66(2):384-386. [https://doi.org/10.1016/0009-2614\(79\)85040-X](https://doi.org/10.1016/0009-2614(79)85040-X)