

CURRICULUM VITAE

Personal data

Name: Andrei Andryieuski
Date of birth: 02 March 1985
E-mail: andrandr@gmail.com
Web-page: <http://www.andryieuski.eu/>

Education and carrier development

2015-now **Deputy Director**, Laserscom LLC
2015-now **Visiting Scientist**, DTU Fotonik, Technical University of Denmark.
2011-2015 **Postdoc**, DTU Fotonik, Technical University of Denmark.
2011 **Ph.D.**, DTU Fotonik, Technical University of Denmark. Ph.D. thesis title "Negative Index Materials and Plasmonic Antennas Based Nanocouplers".
2008 **M.Sc. with honors in physics**, Belarusian State University BSU, Belarus. Thesis title: "Mode radiation pattern of laser structures of indium and gallium nitrides on silicon substrate".
2007 **Specialist diploma with honors in physics and electronics**, Belarusian State University, Belarus. Thesis title: "Optical and lasing characteristics of quantum-size InGaN structures"

Academic awards and honors

2017 Winner of the 1st Belarusian SCIHAKATHON (Scientific Hakathon), Minsk, Belarus
<http://sciencehit.by/hackathon> as a member of the team "Plasmona"
<https://tech.onliner.by/2017/06/04/hackathon-5>.
2012 DTU's Young Researcher Award 2012.
2012 Young Elite Researcher "DFF-Ung Eliteforsker 2012" prize, Det Frie Forskningsråd, Denmark.
2012 Poster award "for great presentation of scientific research" at Carbonhagen-2012 conference.
2007 1st diploma at the Republican Student Research Work Competition-2007, Belarus.
2007 The best student of the Radiophysics Department of BSU, Minsk, Belarus.
2006 2nd diploma at the Republican Student Research Work Competition-2006, Belarus.
2005-2007 The scholarship of the President Fund, Belarus.
2003 President Prize, Belarus.
2002 Silver Medal at the 33rd International Physics Olympiad, Indonesia.
2002 Golden Medal for secondary education completion with honors, Belarus.
2002 The first diploma at the finals of the Republican Physics Olympiad, Belarus.

Research projects participation and grants achieved

2014 Grant from the Otto Mønstedts fund for travel to CLEO US 2014 conference.
2013 Grant from the Otto Mønstedts fund for travel to ICMAT-2013 conference.
2013 Grant from the SCK Kompetencefonden for personal development.
2012-2015 Individual postdoc grant from Danish Council for Technical and Production Sciences for the project "Graphene Based Terahertz Waveguide and Modulator". Includes Sapere Aude postdoc grant.
2011 Travel grant to the SPP5 conference (South Korea).
2008-2011 "Negative Index Materials Based Nano-Couplers" (NIMbus), FTP project, Denmark.
2008 Youth Grant "Semiconductor sources of visible and infrared radiation", Belarus.
2007 Project 2.01, theme 548/13 "Development of high-power laser and LED light sources on the basis of semiconductor heterostructures", National Program "Photonics", BSU, Belarus.
2005 National Project "Optics. Electronics. Information Science", ass. 56 "Development and creation of violet-green LED based on InGaN/GaN heterostructures on Si and sapphire", Nat.Acad. Sc. Belarus
2005 Youth Grant "Investigation of semiconductor quantum electronics devices", Belarus.

Scientific focus areas

Graphene photonics and plasmonics. THz photonics. Numerical simulation, cleanroom fabrication and optical characterization of metamaterials, plasmonic waveguides and nanoantennas.

Publications in 2006-2018

Andrei Andryieuski has published 35 papers in peer-reviewed journals and 16 papers in peer-reviewed proceedings. He gave 1 invited and 17 oral talks, presented 9 posters at the conferences and additionally co-authored 66 conference contributions. He has also written 3 book chapters and co-authored 2 popular science books.

Patent applications

2014 A. Andryieuski, R. Malureanu, A. Lavrinenko "Super-resolution near field imaging device", WIPO, IPC: G01Q60/22, Patent Number: WO2014079450, Date: 30/05/14, Priority: 23/11/12.

Teaching experience

2014 Co-supervised 2 students, B.Sc. project, DTU.
2012-2013 Co-supervision of the M.Sc. project, DTU.
2012 Co-supervised a diploma student from the Belarusian State University.
2009-2014 Co-supervised 16 students at DTU Fotonik at research projects and internships.
2009-2012 Assisted at the DTU courses "Nanophotonics", "Nano-2", "Numerical methods in photonics".
2007-2008 Teaching physics to high-school student at the Lyceum of the BSU, Minsk, Belarus.
2006-2007 Training the team of Belarus for the International Physics Olympiads.

Other experience

2014 Organized Metamaterials'2014 conference (25-28 Aug 2014) and doctoral school (29-30 Aug 2014).
2013 Prepared [one problem](#) for the 44th International Physics Olympiad (Denmark), worked as a marker.
2010-now Manuscripts reviewing for Physical Review Letters, Physical Review B, Physical Review Applied, Optics Letters, Optics Express, Applied Optics, Journal of Applied Physics, Journal of Electromagnetic Waves and Applications, Applied Physics A, Advances in Optoelectronics, Photonic Nanostructures - Fundamentals and Applications, Nanoscale, Scientific Reports, Journal of Optical Society of America B, IEEE Journal of Quantum Electronics.

Professional societies

2013-2015 Materials Research Society of Singapore
2013-2014 European Physical Society
2012-2013 Danish Optical Society, European Optical Society
2010, 2014-2015 Optical Society of America

Professional skills

Modelling and scientific software: CST Microwave Studio, MATLAB, Mathematica, Comsol, ZEMAX, Origin, SolidWorks, Gwyddion, L-Edit, LabView.

Cleanroom fabrication and characterization: Electron beam lithography, metal deposition and lift-off, dielectric evaporator, photolithography, atomic force microscope, scanning electron microscope, CVD graphene fabrication, profilometry, optical microscopy.

Optical characterization: fiber based transmission measurements of photonic/plasmonic waveguides, THz time-domain spectroscopy, LED spectroscopy.

Other skills

First Aid (CRP with AED), 2012 (Safetygroup ApS, Denmark).

PUBLICATION LIST (2006-2017)

Peer-reviewed journals and proceedings

Peer-reviewed journal papers

35. **A. Andryieuski**, and V.F. Andryieuski "Laser diode modules: optical coupling and parts bonding", *Photonics*, №3, p. 74–79 (2017) (6 pages).
34. **A. Andryieuski** "In- and out-coupling devices for subwavelength waveguides", *Photonics*, part 1, №1, p. 98–110 (2016) (13 pages), part 2, №4, p. 126–133 (2016) (8 pages).
33. M. Odit, P. Kapitanova, **A. Andryieuski**, P. Belov and A.V. Lavrinenko, "Experimental demonstration of water based tunable metasurface", *Applied Physics Letters*, 109, 011901 (2016) (4 pages).
32. **A. Andryieuski**, A.V. Lavrinenko, M. Petrov, and S.A. Tretyakov "Homogenization of metasurfaces formed by random resonant particles in periodical lattices", *Physical Review B*, vol. 93, p. 205127 (2016) (9 pages).
31. V.A. Zenin, **A. Andryieuski**, R. Malureanu, I.P. Radko, V.S. Volkov, D.K. Gramotnev, A.V. Lavrinenko, and S.I. Bozhevolnyi, "Boosting Local Field Enhancement by on-Chip Nanofocusing and Impedance-Matched Plasmonic Antennas", *Nanoletters*, vol. 15, p. 8148–8154 (2015) (7 pages).
30. S.V. Zhukovsky, **A. Andryieuski**, O. Takayama, E. Shkondin, R. Malureanu, F. Jensen, and A.V. Lavrinenko "Experimental Demonstration of Effective Medium Approximation Breakdown in Deeply Subwavelength All-Dielectric Multilayers", *Physical Review Letters*, vol. 115, p. 177402 (2015) (5 pages).
29. T. Gu, **A. Andryieuski**, Y. Hao, Y. Li, J. Hone, C.W. Wong, A. Lavrinenko, T. Low, and T.F. Heinz "Photonic and Plasmonic Guided Modes in Graphene–Silicon Photonic Crystals", *ACS Photonics*, vol. 2, 1552–1558 (2015) (7 pages).
28. **A. Andryieuski**, S.M. Kuznetsova, S.V. Zhukovsky, Yu.S. Kivshar, A.V. Lavrinenko "Water: Promising Opportunities for Tunable All-dielectric Electromagnetic Metamaterials", *Scientific Reports*, vol. 5, p. 13535 (2015) (9 pages)
27. **A. Andryieuski**, S.M. Kuznetsova, and A.V. Lavrinenko "Applicability of point-dipoles approximation to all-dielectric metamaterials", *Physical Review B*, vol. 92, pp. 035114 (2015) (7 pages).
26. **A. Andryieuski**, A.V. Lavrinenko and S.V. Zhukovsky "Anomalous effective medium approximation breakdown in deeply subwavelength all-dielectric photonic multilayers", *Nanotechnology*, 26, 184001 (2015). (11 pages) (Also presented at Nanotechnology discussion webinar on nanophotonics, by *Nanotechnology*, 07.12.2015)
25. D. Durhuus, M. V. Larsen, **A. Andryieuski**, R. Malureanu, F. Pizzocchero, P. Bøggild, and A. V. Lavrinenko "Selective Electroless Silver Deposition on Graphene Edges", *Journal of The Electrochemical Society*, 162 (6) D213–D217 (2015). (5 pages)
24. S.V. Zhukovsky, **A. Andryieuski**, and A.V. Lavrinenko "Hyperbolic metamaterials beyond simple multilayers", *SPIE Newsroom*, 10.1117/2.1201410.005626 (2014). (3 pages)
23. S.V. Zhukovsky, **A. Andryieuski**, J.E. Sipe, and A.V. Lavrinenko "From surface to volume plasmons in hyperbolic metamaterials: General existence conditions for bulk high-k waves in metal-dielectric and graphene-dielectric multilayers", *Physical Review B*, 90, 155429 (2014). (10 pages)
22. I. Khromova, **A. Andryieuski**, and A. Lavrinenko "Ultrasensitive terahertz/infrared waveguide modulators based on multilayer graphene metamaterials", *Laser Photonics Rev.*, 6, pp. 916–923 (2014) (8 pages).
21. **A. Andryieuski**, V.A. Zenin, R. Malureanu, V.S. Volkov, S.I. Bozhevolnyi, A. Lavrinenko "Direct Characterization of Plasmonic Slot Waveguides and Nanocouplers", *Nano Letters*, vol. 14, pp. 3925–3929 (2014) (5 pages).
20. **A. Andryieuski**, S.V. Zhukovsky, A.V. Lavrinenko "Rough metal and dielectric layers make an even better hyperbolic metamaterial absorber", *Optics Express*, vol. 22, iss.12, pp. 14975–14980 (2014) (6 pages).
19. **A. Andryieuski**, A. Lavrinenko "Graphene metamaterials based tunable terahertz absorber: effective surface conductivity approach", *Optics Express*, vol. 21, iss. 7, pp. 9144–9155 (2013) (11 pages).
18. D.L. Markovich, **A. Andryieuski**, M. Zalkovskij, R. Malureanu, A.V. Lavrinenko "Metamaterial polarization converter analysis: limits of performance", *Applied Physics B*, vol. 112, iss.2, pp 143–152, (2013) (10 pages).
17. **A. Andryieuski**, D. Chigrin, and A.V. Lavrinenko "Graphene hyperlens for terahertz radiation", *Physical Review B: Rapid Communications*, vol. 86, pp.121108(R) (2012) (5 pages). (The results discussed at CST webinar "Graphene-enhanced Devices: Simulation-based Design from Microwave to Optical Frequencies" 05.11.2015)
16. R. Malureanu, M. Zalkovskij, Z. Song, C. Gritti, **A. Andryieuski**, Q. He, L. Zhou, P.U. Jepsen and A.V. Lavrinenko "A new method for obtaining transparent electrodes", *Optics Express*, vol. 20, iss.20, pp. 22770–22782 (2012) (13 pages).
15. **A. Andryieuski**, and A.V. Lavrinenko "Nanocouplers for infrared and visible light" (Review Paper), *Advances in Optoelectronics*, Article ID 839747 (2012) (17 pages).

14. **A. Andryieuski**, S. Ha, A.A. Sukhorukov, Y.S. Kivshar, and A.V. Lavrinenko, "Bloch-mode analysis for retrieving effective parameters of metamaterials", *Physical Review B*, vol. 86, pp. 035127 (2012) (10 pages).
13. K. Iwaszczuk, **A. Andryieuski**, A. Lavrinenko, X.-C.Zhang, and P. U. Jepsen, "Terahertz field enhancement to the MV/cm regime in a tapered parallel plate waveguide", *Optics Express*, vol. 20, iss.8, pp. 8344–8355 (2012) (12 pages).
12. **A. Andryieuski**, R. Malureanu, G. Biagi, T. Holmgaard, A. V. Lavrinenko, "Compact dipole nanoantenna coupler to plasmonic slot waveguide", *Optics Letters*, vol. 37, iss. 6, pp. 1124–1126 (2012). (3 pages). (Top 10 downloaded article from Optics Letters in March and April 2012).
11. K. Iwaszczuk, **A. Andryieuski**, A. Lavrinenko, X.-C.Zhang, and P. U. Jepsen, "Non-invasive terahertz field imaging inside parallel plate waveguides", *Applied Physics Letters*, vol. 99, p. 071113 (2011).(3 pages).
10. R. Malureanu, A. Alabastri, W. Cheng, R. Kiyan, B.N. Chichkov, **A. Andryieuski**, and A.V. Lavrinenko, "Enhanced broadband optical transmission in metallized woodpiles," *Applied Physics A*, vol. 103, issue 3, pp.749-753 (2011). (5 pages).
9. **A. Andryieuski**, C. Menzel, C. Rockstuhl, R. Malureanu, F. Lederer, and A. Lavrinenko, "Homogenization of resonant chiral metamaterials," *Physical Review B*, vol. 82, p. 235107 (2010). (7 pages).
8. R. Malureanu, M. Zalkovskij, **A. Andryieuski**, and A.V. Lavrinenko, "Controlled Ag Electroless Deposition in Bulk Structures with Complex Three-Dimensional Profiles," *Journal of The Electrochemical Society*, vol. 157, p. K284-K288 (2010). (5 pages).
7. **A. Andryieuski**, R. Malureanu, and A.V. Lavrinenko, "Wave propagation retrieval method for chiral metamaterials," *Optics Express*, vol. 18, pp. 15498-15503 (2010). (6 pages).
6. C. Menzel, C. Rockstuhl, R. Iliw, F. Lederer, **A. Andryieuski**, R. Malureanu, and A.V. Lavrinenko, "High symmetry versus optical isotropy of a negative-index metamaterial," *Physical Review B*, vol. 81, p. 195123 (2010).(6 pages).
5. **A. Andryieuski**, R. Malureanu, and A. Lavrinenko, "Wave propagation retrieval method for metamaterials: Unambiguous restoration of effective parameters," *Physical Review B*, vol. 80, 193101, (2009). (4 pages).
4. **A. Andryieuski**, C. Menzel, C. Rockstuhl, R. Malureanu, A. Lavrinenko "The split cube in a cage: bulk negative-index material for infrared applications". *Journal of Optics A: Pure and Applied Optics*, vol: 11, article no. 114010 (2009). (7 pages).
3. **A. Andryieuski**, R. Malureanu, and A. Lavrinenko "Nested structures approach in designing an isotropic negative-index material for infrared", *J. Eur. Opt. Soc.: Rapid Publ.* 4, pp. 09003 (2009). (7 pages).
2. E.V. Lutsenko, A.V. Danilchuk, N.P. Tarasuk, **A.V. Andryieuski**, V.N. Pavlovskii, A.L. Gurskii, G.P. Yablonskii, H. Kalisch, R.H. Jansen, Y. Dikme, B. Schineller, and M. Heuken, "Laser threshold and optical gain of blue optically pumped InGaN/GaN multiple quantum wells (MQW) grown on Si", *Physica Status Solidi (c)*, vol. 5, pp. 2263-2266 (2008) (4 pages).
1. **A.V. Andryieuski** "Influence of the heterostructure design on the lasing threshold of the multiple quantum wells laser on silicon" *Vestnik BSU*, no. 1, pp. 45-48 (2008) (4 pages) (in Russian).

Peer-reviewed proceedings

16. S.V. Zhukovsky, V.E. Babicheva, A. Orlov, **A. Andryieuski**, J.E. Sipe, A.V. Lavrinenko "Populating the large-wavevector realm: Bloch volume plasmon polaritons in hyperbolic and extremely anisotropic metamaterials", 8th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (METAMATERIALS) 2014 Proceedings, IEEE.
15. **A. Andryieuski**, V.A.Zenin, R. Malureanu, V.S. Volkov, S.I. Bozhevolnyi, A. Lavrinenko "Plasmonic antennas nanocoupler for telecom range: simulation, fabrication and near-field characterization", *CLEO-QELS 2014OSA Technical Digest*, 2014,FTu2K.2.
14. V. Babicheva, I.Iorsh, A.Orlov, P. Belov, A. Lavrinenko,**A. Andryieuski**, S. Zhukovsky "Multi-Periodic Photonic Hyper-Crystals: Volume Plasmon Polaritons and the Purcell Effect", *CLEO-QELS 2014OSA Technical Digest*, 2014, FTu2C.3.
13. S.V. Zhukovsky, **A. Andryieuski**, A.V. Lavrinenko, and J.E. Sipe "Existence conditions for bulk large-wavevector waves in metal-dielectric and graphene-dielectricmultilayer hyperbolic metamaterials" *Proceedings of SPIE 2014*.
12. **A. Andryieuski**, F. Pizzocchero, T. Booth, P.Bøggild, A.V. Lavrinenko "Effective Surface Conductivity Approach for Graphene Metamaterials Based Terahertz Devices", *The European Conference on Lasers and Electro-Optics (CLEO_Europe)*, 2013, CC_4_3.

11. **A. Andryieuski**, D.N. Chigrin, and A.V. Lavrinenko “Graphene wire medium: Homogenization and application”, *AIP Conf. Proc.* 1475, 2012, pp. 107-109 (3 pages).
10. A.V. Lavrinenko, **A. Andryieuski**, S. Ha, A.A. Sukhorukov, and Yu.S. Kivshar “Bloch-mode analysis for effective parameters restoration”, *AIP Conf. Proc.* 1475, 2012, pp. 140-142 (3 pages).
9. **A. Andryieuski**, R. Malureanu, J.-S. Bouillard, A.V. Zayats, A.V. Lavrinenko “Improving Plasmonic Waveguides Coupling Efficiency Using Nanoantennas”, *Proceedings of the 14th International Conference on Transparent Optical Networks (ICTON)*, 2012, 10.1109/ICTON.2012.6254399.
8. **A. Andryieuski**; S. Ha; A.A. Sukhorukov; Yu.S. Kivshar; A.V. Lavrinenko “Unified approach for retrieval of effective parameters of metamaterials”, *Proceedings of the SPIE*, Volume 8070, 2011, pp. 807008-807008-7 (7 pages)
7. M. Zalkovskij; R. Malureanu; **A. Andryieuski**; A. V. Lavrinenko “Fabrication and characterization of woodpile structures”, *Proceedings of the SPIE*, Volume 8070, 2011, pp. 80700M-80700M-7 (7 pages).
6. C. Menzel, T. Paul, C. Rockstuhl, R. Iliew, **A. Andryieuski**, R. Malureanu, A.V. Lavrinenko, F. Lederer “Optical Isotropic Negative Index Metamaterials”, *Photonic Metamaterials and Plasmonics 2010, OSA Technical Digest*, 2010, paper: MWB2.
5. A. Andryieuski, R. Malureanu, A.V. Lavrinenko, “Homogenization of metamaterials: Parameters retrieval methods and intrinsic problems”, *12th International Conference on Transparent Optical Networks (ICTON) proceedings*, IEEE, 2010, 978-1-4244-779-2/10. (5 pages)
4. **A. Andryieuski**, C. Menzel, C. Rockstuhl, R. Malureanu, F. Lederer, and A.V. Lavrinenko, “Is It Possible To Homogenize Resonant Chiral Metamaterials?,” *AIP Conference Proceedings*, vol. 1291, 2010, pp. 37-39 (3 pages).
3. **A. Andryieuski**, R. Malureanu, A. Alabastri, A.V. Lavrinenko “Bulk Metamaterials: Design, Fabrication and Characterization”, *ICTON MW'2009 Proceedings*, IEEE 2009, 978-1-4244-5747-2/10. (5 pages)
2. R. Malureanu, P.U. Jepsen, S. Xiao, L. Zhou, D.G. Cooke, **A. Andryieuski**, and A.V. Lavrinenko, “Fractal THz metamaterials: design, fabrication, and characterisation,” *Metamaterials V*, N.P. Johnson, E. Ozbay, R.W. Ziolkowski, and N.I. Zheludev, Eds., Brussels, Belgium: *SPIE proceedings*, 2010, pp. 77110M-8. (8 pages).
1. **A. Andryieuski**, R. Malureanu, and A.V. Lavrinenko, “Wave propagation method as an accurate technique for effective refractive index retrieving,” *Theoretical and Computational Nano-Photonics : AIP Conference Proceedings*, vol. 1176, 2009, pp. 37-39. (3 pages).

Other publications

Conference contributions

95. A.A. Afonenko, A.V. Andryieuski, “Fiber Bragg grating external cavity laser diode spectral characteristics analysis”, *Quantum Electronics*, Belarus, 2017.
94. A. Lavrinenko, R. Jacobsen, S. Arslanagic, S. Kuznetsova, **A. Andryieuski**, M. Odit, P. Kapitanova “Tunable Microwave Metamaterials Based on Ordinary Water”, *European Microwave Week 2017*, Germany, 2017.
93. P. Kapitanova, M. Odit, D. Dobrykh, **A. Andryieuski**, A. Lavrinenko, P. Belov “Tunable Water-based Microwave Metasurface”, *11th European Conference on Antennas and Propagation*, France, 2017.
92. **A. Andryieuski**, V.F. Andryieuski “Laser and photodiode modules produced by LasersCom, LLC”, *XIII conference Systems of observation, monitoring and remote sensing of Earth*, Russia, 2016.
91. R. Malureanu, V.A. Zenin, **A. Andryieuski**, I.P. Radko, V.S. Volkov, D.K. Gramotnev, A.V. Lavrinenko, S.I. Bozhevolnyi, “Design, Fabrication and SNOM Investigation of Plasmonic Devices”, *PIERS-2016*, China, 2016.
90. A.V. Lavrinenko, **A. Andryieuski**, S. Zhukovsky, O. Takayama, E. Skhondin, M. Aryaee Panah, R. Malureanu, F. Jensen, “Hyperbolic Metamaterials with Complex Geometry”, *META'16, The 6th International Conference on Metamaterials, Photonic Crystals and Plasmonics*, 2A23, Proceedings, p.471-472, Malaga, Spain, 2016.
89. R. Malureanu, V. Zenin, **A. Andryieuski**, I. Radko, V. Volkov, D. Gramotnev, A. Lavrinenko, S. Bozhevolnyi “Use of nano-antennae and on-chip focusing for increasing the local field enhancement”, *AP-S/URSI 2016*, Puerto Rico, 2016.
88. **A. Andryieuski**, S.M. Kuznetsova, M. Odit, S.V. Zhukovsky, P. Kapitanova, Y.S. Kivshar, A.V. Lavrinenko “Water based tunable all-dielectric microwave metamaterials”, *Days on Diffraction-2016*, Russia, 2016. (ORAL)

87. A. Lavrinenko, S. Zhukovsky, **A. Andryieuski**, O. Takayama, E. Shkondin, R. Malureanu, F. Jensen, "Effective medium approximation for deeply subwavelength all-dielectric multilayers: when does it break down?", *SPIE Photonics Europe*, Belgium, 2016.
86. E. Shkondin, F. Jensen, A. Lavrinenko, M.D. Mar, P.V. Larsen, R. Malureanu, S.V. Zhukovsky, **A. Andryieuski**, O. Takayama, "TiO₂ and Al₂O₃ ALD Grown Multilayers for Subwavelength Photonics", *DTU's Sustain Conference 2015*, Denmark, 2015.
85. E. Shkondin, S.V. Zhukovsky, **A. Andryieuski**, O. Takayama, R. Malureanu, M. Dysseholm Mar, A. Lavrinenko, F. Jensen, "Deep subwavelength photonic multilayers fabricated by atomic layer deposition", *The 41st International Conference on Micro-and Nano-Engineering MNE 2015*, Netherlands, 2015.
84. **A. Andryieuski**, M. Petrov, A. Lavrinenko, S. Tretyakov, "Understanding of increased diffuse scattering in regular arrays of fluctuating resonant particles", *SPIE Optics + Photonics 2015*, USA, 2015.
83. **A. Andryieuski**, V. Zenin, R. Malureanu, V. Volkov, S. Bozhevolnyi, A. Lavrinenko, "Optical Nano-antennae as Compact and Efficient Couplers from Free-space to Waveguide Modes", *2015 IEEE AP-S Symposium on Antennas and Propagation and URSI CNC/USNC Joint Meeting*, TU-SP.1P.4, Canada, 2015.
82. A.V. Lavrinenko, R. Malureanu, M. Zalkovskij, S. V. Zhukovsky, **A. Andryieuski**, P. Uhdjepsen, D.N. Chigrin, Z.Y. Song, Q. He, and L. Zhou, "Metasurfaces for Terahertz Waves Polarization Control", *Progress in Electromagnetic Research Symposium, PIERS 2015 Proceedings*, p.38, Czech Republic, 2015.
81. I. Khromova, **A. Andryieuski**, and A.V. Lavrinenko, "Tunable Multilayer Graphene Metamaterials for Terahertz/Infrared Waveguide Modulators", *Progress in Electromagnetic Research Symposium, PIERS 2015 Proceedings*, p.1907, Czech Republic, 2015.
80. **A. Andryieuski**, V. Zenin, R. Malureanu, V. Volkov, S. Bozhevolnyi, A. Lavrinenko, "Improved Coupling to Plasmonic Slot Waveguide via a Resonant Nanoantenna", *8th International Conference on Materials for Advanced Technologies ICMAT15*, 15-A-1076 (K), Singapore, 2015.
79. **A. Andryieuski**, T. Gu, Y. Hao, Y. Li, J. Hone, C. W. Wong, A. Lavrinenko, T. Low, T. Heinz, "Plasmonic and Photonic Modes Excitation in Graphene on Silicon Photonic Crystal Membrane", *8th International Conference on Materials for Advanced Technologies ICMAT 2015*, 15-A-2501 (F), Singapore, 2015.
78. **A. Andryieuski**, A.V. Lavrinenko, S.V. Zhukovsky, "Is Effective Medium Approximation Always Valid for Ultrathin Multilayer All-dielectric Metamaterials?" *CLEO/Europe-EQEC 2015*, Germany, 2015.
77. V.A. Zenin, **A. Andryieuski**, R. Malureanu, I.P. Radko, V.S. Volkov, A.V. Lavrinenko, S.I. Bozhevolnyi, "Adiabatic Nanofocusing of Short-Range SPPs", *SPP7 The 7th International Conference on Surface Plasmon Photonics*, Israel, 2015.
76. **A. Andryieuski**, T. Low, and A.V. Lavrinenko, "Optical Modes in Graphene on Silicon Photonic Crystal Membrane", *SPP7 The 7th International Conference on Surface Plasmon Photonics*, Israel, 2015.
75. **A. Andryieuski**, A.V. Lavrinenko, and S.V. Zhukovsky, "Internal Roughness Improves Hyperbolic Metamaterial Absorber", *SPP7 The 7th International Conference on Surface Plasmon Photonics*, Israel, 2015.
74. **A. Andryieuski**, D.N. Chigrin, I. Khromova, J.E. Sipe, S.V. Zhukovsky, A.V. Lavrinenko, "Graphene-enhanced metamaterials in THz applications," *NATO Advanced Research Workshop FANEM 2015*, Belarus, 2015.
73. **A. Andryieuski**, V.A. Zenin, R. Malureanu, V.S. Volkov, S.I. Bozhevolnyi, A.V. Lavrinenko "Simulation, Fabrication And Near-Field Characterization Of Nanoantenna Couplers For Telecom Range", *Metamaterials'2014*, Denmark, 2014. (ORAL)
72. S. Zhukovsky, V. Babicheva, A. Orlov, **A. Andryieuski**, J. Sipe, A. Lavrinenko "Populating the Large-Wavevector Realm: Bloch Volume Plasmon Polaritons in Hyperbolic and Extremely Anisotropic Metamaterials", *Metamaterials'2014*, Denmark, 2014.
71. I. Khromova, **A. Andryieuski**, A. Lavrinenko "Ultrasensitive Terahertz Waveguide Modulators Using Multilayer Graphene Metamaterials", *Metamaterials'2014*, Denmark, 2014.
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