

CURRICULUM VITAE



PERSONAL INFORMATION

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Name — PAVEL A. BELOV

Work address — ITMO University Kronverkskiy Pr. 49, 197101
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Date of birth — 18 December 1977

EDUCATION

Dates (from — to)	February 2004 — November 2010
Name of organization	St. Petersburg State University of Information Technologies, Mechanics and Optics, Sablinskaya St.14, 197101, St. Petersburg, Russia; www.ifmo.ru
Principal subjects	Optics and radiophysics
Title of qualification	Doctor of Science
Title of thesis	Transmission of electromagnetic field distributions with subwavelength resolution by means of extremely anisotropic metamaterials
Dates (from — to)	May 2001 — November 2006
Name of organization	Radio Laboratory, Helsinki University of Technology, PO. Box 3000, FIN-02015 TKK, Espoo, Finland; www.hut.fi
Principal subjects	Radio engineering and electromagnetics
Title of qualification	Doctor of Science in Technology, with distinction (second PhD)
Title of thesis	Analytical modeling of metamaterials and new principle of sub-wavelength imaging

EDUCATION

Dates (from — to)	May 2001 — September 2004
Name of organization	Radio Laboratory, Helsinki University of Technology, PO. Box 3000, FIN-02015 TKK, Espoo, Finland; www.hut.fi
Principal subjects	Radio engineering and electromagnetics
Title of qualification	Licentiate in Technology, with distinction
Title of thesis	Analytical studies of complex microwave stop band structures
Dates (from — to)	May 2001 — November 2006
Name of organization	Radio Laboratory, Helsinki University of Technology, PO. Box 3000, FIN-02015 TKK, Espoo, Finland; www.hut.fi
Principal subjects	Radio engineering and electromagnetics
Title of qualification	Doctor of Science in Technology, with distinction (second PhD)
Title of thesis	Analytical modeling of metamaterials and new principle of sub-wavelength imaging http://lib.tkk.fi/Diss/2006/isbn9512283786/
Dates (from — to)	July 2000 — May 2003
Name of organization	St. Petersburg Institute of Fine Mechanics and Optics, Sablinskaya St. 14, 197101, St. Petersburg, Russia; www.ifmo.ru
Principal subjects	Optics and radiophysics
Title of qualification	Candidate of Science (PhD equivalent)
Title of thesis	Analytical modeling of electromagnetic crystals
Dates (from — to)	September 1998 — May 2000
Name of organization	St. Petersburg Institute of Fine Mechanics and Optics, Sablinskaya St. 14, 197101, St. Petersburg, Russia; www.ifmo.ru
Principal subjects	Applied mathematics and computer science
Title of qualification	Master of Science, cum laude
Title of thesis	Electromagnetic interaction in regular arrays of scatterers
Dates (from — to)	September 1994 — May 1998
Name of organization	St. Petersburg Institute of Fine Mechanics and Optics, Sablinskaya St. 14, 197101, St. Petersburg, Russia; www.ifmo.ru
Principal subjects	Applied mathematics and computer science
Title of qualification	Bachelor of Science, cum laude
Title of thesis	Exact solution of interaction and excitation problems in regular arrays of bianisotropic scatterers

SCHOLARSHIPS FOR SUPPORT OF STUDIES

- Hudswell International Research Scholarship (IEE, UK, 2003)
- Nokia Scholarship (Nokia comp., Finland, 2003)
- SUMMA Fellowship in Advanced Electromagnetics (USA, 2002)
- IEEE MTTs Fellowship (USA, 2001)
- INTAS Fellowship (Belgium, 2001)
- SPIE Educational Scholarships (USA, 1999, 2000, 2003)
- Grants of International Soros Science Education Program (1995-2000, 2003)
- Grant for PhD students and young scientists of SPIFMO (Russia, 2003)
- Grant of St. Petersburg Administration for young scientists (Russia, 1998/99)
- Scholarship of Russian Federation Ministry of Education (Russia, 1999)
- Personal Scholarship of the President of Russian Federation for the progress in study and scientific research (Russia, 1998)
- Scholarship of St. Petersburg Mayor (Russia, 1997/98)

WORK EXPERIENCE

Dates (from — to)	September 2024 - present time
Name and address of employer	School of Engineering, New Uzbekistan University, Movarounnahr Street 1, Tashkent 100000, Uzbekistan; https://newuu.uz/
Occupation or position held	Dean of the School of Engineering
Main activities and responsibilities	Managing academic divisions, overseeing curriculum development, supervising staff, and interacting with faculty and students newuu.uz (https://newuu.uz/)
Dates (from — to)	February 2023 — May 2023
Name and address of employer	NARXOZ University, Zhandosova, 55 Almaty, Kazakhstan, 050035 https://narxoz.edu.kz
Occupation or position held	Consultancy
Main activities and responsibilities	Consulting, development of a concept for the development of an engineering school

WORK EXPERIENCE

Dates (from — to)	April 2021 — present time / April 2017 — March 2021
Name and address of employer	School of Physics and Engineering / Department of Physics and Engineering http://physics.ifmo.ru ITMO University 49 Kronverkskiy pr. 197101, St. Petersburg, Russia; www.ifmo.ru
Occupation or position held	Head of School of Physics and Engineering / Dean of Faculty of Physics and Engineering
Main activities and responsibilities	Research in the areas of metamaterials, metasurfaces, plasmonic nanostructures, nanoantennae, homogenization, spatial dispersion, magnetic resonance imaging.
Dates (from — to)	April 2015 - August 2018 / November 2010 — March 2015
Name and address of employer	Department of Nanophotonics and Metamaterials, The International Research Centre of Nanophotonics and Metamaterials (The Metamaterials Laboratory); ITMO University, 49 Kronverkskiy pr. 197101, St. Petersburg, Russia; http://metalab.ifmo.ru/
Occupation or position held	Head of Department / Principal Researcher, Head of Centre
Main activities and responsibilities	Research in the areas of metamaterials, metasurfaces, plasmonic nanostructures, nanoantennae, homogenization, spatial dispersion, magnetic resonance imaging.
Dates (from — to)	Sept. 2007 — Nov. 2010 / Feb. 2004 — Nov. 2004 / May 2003 — Jan. 2004
Name and address of employer	St. Petersburg State University of Information Technologies, Mechanics and Optics; Photonics and Optoinformatics Department, Sablinskaya St. 14, 197101, St. Petersburg, Russia; www.ifmo.ru
Occupation or position held	Leading Researcher / Associate Professor / Senior Researcher
Main activities and responsibilities	Theoretical and numerical studies of electromagnetic crystals and metamaterials. Undergraduate teaching (electromagnetics, mechanics).
Dates (from — to)	September 2007 — August 2012
Name and address of employer	School of Electronic Engineering and Computer Science, Queen Mary University of London, Mile End Road, London E1 4NS, UK. www.elec.qmul.ac.uk
Occupation or position held	EPSRC Advanced Research Fellow
Main activities and responsibilities	Theoretical and experimental studies of subwavelength imaging by means of metamaterials within the framework of EPSRC Advanced Research Fellowship.

WORK EXPERIENCE

Dates (from — to)	June 2005 — August 2007
Name and address of employer	Department of Electronic Engineering, Queen Mary University of London, Mile End Road, London E1 4NS, UK. www.elec.qmul.ac.uk
Occupation or position held	Post-doctoral Research Assistant
Main activities and responsibilities	Theoretical and experimental studies of metamaterials: electromagnetic crystals, left-handed media and nanostructures within the framework of EPSRC project.
Dates (from — to)	June 2005 — August 2007
Name and address of employer	Robert Bosch GmbH, Russian R&D Center, Shvetsova St. 41/15, 198095, St. Petersburg, Russia; http://www.bosch.ru
Occupation or position held	Research Engineer (Consultancy)
Main activities and responsibilities	Research in the areas of thermoelectric materials and photovoltaic cells, analysis of alternative energy sources
Dates (from — to)	December 2004 — May 2005
Name and address of employer	Mobile Communication Division, Telecommunication Network Business, Samsung Electronics Co., Ltd., #94-1, Imsoo-Dong, Gumi-City, Gyeong-Buk, 730-350, Korea; www.samsung.com
Occupation or position held	Research Engineer
Main activities and responsibilities	Design and numerical simulation of antennas for mobile terminals (ultra-compact, multi-band, wideband) using artificial materials.
Dates (from — to)	January 2001 — May 2003
Name and address of employer	Radio Laboratory, Helsinki University of Technology, PO. Box 3000, FIN-02015 TKK, Espoo, Finland; www.hut.fi
Occupation or position held	Researcher
Main activities and responsibilities	Theoretical and experimental studies of electromagnetic crystals, metamaterials and high-impedance surfaces. Participation in industrial projects (NOKIA research projects, www.nokia.fi). Design and improvement of antennas for mobile terminals and base stations. User head shielding.
Dates (from — to)	February 1996 — December 2000
Name and address of employer	St. Petersburg Institute of Fine Mechanics and Optics, Sablinskaya St. 14, 197101, St. Petersburg, Russia; www.ifmo.ru
Occupation or position held	Research assistant, General Physics Department
Main activities and responsibilities	Analytical modeling of photonic crystals and bianisotropic materials (non-reflective shields, stealth technology). Participation in research projects (Russian Foundation for Basic Research, www.rfbr.ru).

RESEARCH INTERESTS AND BACKGROUND

Metamaterials, plasmonic nanostructures, photonic and electromagnetic crystals, impedance surfaces, with emphasis on analytical, numerical (FDTD, FEM, MOM) and experimental studies of electromagnetic properties. Previously he studied: bianisotropic materials for non-reflective shields at microwave frequencies (stealth-technology), polarization transformers and frequency selective surfaces.

AWARDS

- Fellow of The Electromagnetics Academy (PIERS, USA, 2025)
- Award of the Government of St. Petersburg for outstanding achievements in the field of higher education and secondary vocational education (2018)
- Award of the Government of St. Petersburg for scientific and pedagogical activity (2017)
- Premium of President of Russian Federation in science and innovation (2009)
- IET Achievement Award (IET, UK, 2006)
- International Dennis Gabor Award (Novofer foundation, Hungary, 2003)
- URSI Young Scientist Award (Belgium, 2002)

RESEARCH GRANTS

- The Ministry of Education and Science of Russia (Federal Target Program), 30 000 000 Rub (Russia, 2023-2025)
- Priority 2030 Federal Academic Leadership Program, 12000 000 Rub/year (Russia, 2022-2024)
- The Ministry of Education and Science of Russia (Federal Target Program), 23 400 000 Rub (Russia, 2021-2023)
- Russian Found for Basic Research, 15 000 000 Rub (Russia, 2019-2022)
- Grant of The Ministry of Education and Science of Russia (Federal Target Program), 30 000 000 Rub (Russia, 2017-2019)
- The Ministry of Education and Science of Russia, 30 000 000 Rub (Russia, 2017-2019)
- The Ministry of Education and Science of Russia (Horizon2020), 30 000 000 Rub (Russia, 2017-2019)
- The Ministry of Education and Science of Russia (BRICS), 21 000 000 Rub (Russia, 2017-2019)
- Russian Science Foundation, 25 000 000 Rub (Russia, 2015-2017)
- Grant of President of Russian Federation for governmental support of young scientists, Doctor of Sciences, 2 000 000 Rub (Russia, 2015-2016)

RESEARCH GRANTS

- Grant of Russian Foundation for Basic Research, 3 000 000 Rub (Russia, 2014-2016)
- Program for Enhancing Competitiveness ("5-100" Project), 300 000 000 Rub (Russia, 2013-2020)
- Action 1.2.1 grant of Federal Targeted Program "Scientific and Scientific- Pedagogical Personnel of the Innovative Russia in 2009-2013", Ministry of Education and Science of Russian Federation, 3 500 000 Rub (2009-2011)
- Action 2.1.1 grant of Analytical Ministerial Targeted Program "Development of scientific potential of high school in 2009-2011", Ministry of Education and Science of Russian Federation, 7 024 556 Rub (2009-2011)
- Grant of President of Russian Federation for governmental support of young scientists, Candidates of Sciences, 1 200 000 Rub (Russia, 2009-2010) and 300 000 Rub (Russia, 2005-2006)
- EPSRC Advanced Research Fellowship, 483 771£ (UK, 2007-2012)

TRAVEL GRANTS

- EPSRC Advanced Research Fellowship, 483 771£ (UK, 2007-2012)
- Presidential Lecturer (OIST, Japan, 2019)
- Invited Sackler Lecturer (TAU, Israel, 2018)
- Erasmus Euro photonics Visiting Professor (Fresnel Institute, France, 2015)
- Two SPIE Visiting Lecturer Grants (USA, both 2009)
- OSA Distinguished Visiting Lecturer Award (USA, 2008)
- Raj Mittra Travel Grant (USA, 2008)
- Researcher Exchange Grant, British Council, 3 890 £ (UK, 2007)
- International Travel Grant, Royal Academy of Engineering (UK, 2005)
- Travel Grant of Russian Foundation of Basic Research (Russia, 2004)
- Travel Grant of Federal Program «Integration» (Russia, 2000, 2003)
- SPIE Travel Grant (USA, 2002)

MEMBERSHIP IN PROFESSIONAL SOCIETIES AND COMISSIONS

A member of IEEE (Institute of Electrical and Electronics Engineers, www.ieee.org) AP-S (Antennas and Propagation Society, www.ieeeaps.org), MTT-S (Microwave Theory and Techniques Society, www.mtt.org), SPIE (International Society for Optics and Photonics, www.spie.org), OSA (Optical Society of America, www.osa.org), ISMRM (International Society for Magnetic Resonance in Medicine, www.ismrm.org). A member of Higher at testation commission at the Ministry of Science and Higher Education of the Russian Federation, Expert Council for Physics

ORGANIZATION OF CONFERENCES

- General Chair of Annual International Conference “Metanano”, Russia <http://metanano.ifmo.ru/> (since 2016, every year)
- Organizer of the Workshop on Metamaterials of Annual International Conference “Days on Diffraction”, St. Petersburg, Russia <http://math.nw.ru/DD/> (since 2006, every year)
- Local chair of 6th International Congress on Advanced Electromagnetic Materials in Microwaves and Optics (Metamaterials 2012), St. Petersburg, Russia, 17-22 September 2012, <https://congress2012.metamorphose-vi.org/>

REVIEWING FOR JOURNALS

- Science, Physical Review Letters, Physical Review A, B and E
- Optics Express, Optics Letters, Journal of Optics A: Pure and Applied Optics
- Journal of Optical Society of America A and B, journal of Nanophotonics,
- New Journal of Physics, Applied Physics Letters, Metamaterials,
- Photonics and Nanostructures - Fundamentals and Applications
- IEEE Trans. Antennas & Propagation, IEEE Antennas & Wireless Prop. Lett.
- IET Proc. Microwaves, Antennas & Propagation

SCIENTIFIC OUTPUT

Author of more than 280 papers in scientific journals, 18 book chapters, and more than 300 reports at international conferences.

PHD STUDENT SUPERVISION

- Alexander Krasnok (2013)
- Alexey Orlov (2015)
- Alexander Chebykin (2016)
- Maxim Gorlach (2017)
- Konstantin Ladutenko (2017)
- Alexey Slobozhanyuk (double program with Australian National University, 2017)
- Sergei Kosulnikov (double program with Aalto University, 2017)

- Mikhail Omelyanovich (double program with Aalto University, 2018)
- Pavel Voroshilov (double program with Aalto University, 2018)
- Eugene Koreshin (2024)
- Rustam Balafendiev (2025)

Results of intellectual activity:

1. Utility model No. 230179 of November 19, 2024 "Repeater for wireless power transfer systems". Belov P.A., Vdovenko A.N., Jandaliyeva A., Udrov M.A., Shchelokova A.V.
2. Invention No. KR102495322B1 "MAGNETIC RESONANCE IMAGING MACHINE". Belov P.A., Poddubny A.N., Slobozhanyuk A.P.
3. Invention No. 2802055 "Wireless power transfer device". Belov P.A., Jandaliyeva A., Puchnin V.M., Shchelokova A.V.
4. Invention No. CN107835658B "MAGNETIC RESONANCE IMAGING MACHINE". Belov P.A., Poddubny A.N., Slobozhanyuk A.P.
5. Invention No. EP3318188B1 "MAGNETIC RESONANCE IMAGING MACHINE". Belov P.A., Poddubny A.N., Slobozhanyuk A.P.
6. Invention No. US10732237B2 "MAGNETIC RESONANCE IMAGING MACHINE". Belov P.A., Poddubny A.N., Slobozhanyuk A.P.
7. Invention No. JP6770537B2 "MAGNETIC RESONANCE IMAGING MACHINE". Belov P.A., Poddubny A.N., Slobozhanyuk A.P.
8. Utility model No. 196766 of March 16, 2020 "Wireless power transfer device". Belov P.A., Glybovski S.B., Kapitanova P.V., Rudneva K.P., Simovski C.R., Song M.
9. Invention No. 033641 "Magnetic resonance imaging scanner". Belov P.A., Poddubny A.N., Slobozhanyuk A.P.
10. Utility model No. 188599 of April 18, 2019 "Radiofrequency coil for magnetic resonance imaging scanner". Belov P.A., Glybovski S.B., Solomakha G.A.
11. Utility model No. 187264 of February 27, 2019 "Wireless power transfer device". Belov P.A., Kapitanova P.V., Markvart A.A., Simovski C.R., Song M.
12. Utility model No. 178567 of April 11, 2018 "Dual-channel radiofrequency coil for magnetic resonance imaging scanner". Belov P.A., Glybovski S.B., Melchakova I.V., Simovski C.R., Solomakha G.A.
13. Utility model No. 183997 of October 11, 2018 "Radiofrequency coil for magnetic resonance imaging scanner". Abdeddaim M.B., Belov P.A., Glybovski S.B., Nikulin A.V., Slobozhanyuk A.P., Hurshkainen A.A., Shchelokova A.V., Enoch S.
14. Computer program No. 2018665528 of December 6, 2018 "Program for creating and applying a deep neural network for automatic segmentation of wrist joint cartilage in three-dimensional images obtained using clinical magnetic resonance imaging". Andreychenko A., Belov P.A., Brui E.A., Melchakova I.V.
15. Utility model No. 172982 of August 2, 2017 "Optical coupler". Belov P.A., Krasnok A.E., Li S.V.
16. Invention No. 2601373 "Magnetic resonance imaging scanner". Belov P.A., Poddubny A.N., Slobozhanyuk A.P.
17. Utility model No. 161593 of April 6, 2016 "Optical waveguide filter". Belov P.A., Krasnok A.E., Savelev R.S.
18. Utility model No. 161583 of April 6, 2016 "Super-directional ceramic antenna". Belov P.A., Krasnok A.E., Filonov D.S.
19. Utility model No. 132573 of September 20, 2013 "Optical dielectric nanoantenna". Belov P.A., Krasnok A.E.
20. Utility model No. 127952 of May 10, 2013 "Optical Yagi-Uda nanoantenna". Belov P.A., Krasnok A.E.
21. Utility model No. 127947 of May 10, 2013 "Superlens for transmission of electromagnetic field distributions". Ageyskiy A.E., Belov P.A., Kapitanova P.V., Maslovsky S.I.
22. Utility model No. 116247 of May 20, 2012 "Superlens for transmission of electromagnetic field distributions". Belov P.A., Kosulnikov S.Yu., Simovski C.R.
23. Computer program No. 2011610944 of 25 January, 2011 "Program for the calculation of the spatially dispersive permittivity of a layered metal-dielectric nanostructure "SPATIALLY DISPERSIVE EPSILON". Belov P.A., Chebykin A.V.
24. Computer program No. 2011617390 of 22 September, 2011 "Program for numerical modeling of antireflective coatings and transformation optics problems using the finite-difference time-domain method "FDTD-2D-drude-ADE». Belov P.A., Ladutenko K.S.

Papers in referred journals:

2025

1. Y. Yang, Z. Zhang, Y. Sun, Y. Yun, D. Zhao, X. Yang, Z. Tan, Z. Zhang, J. Cheng, J. Xia, L. Huang, J. Chi, Z. Lian, S. Chen, L. Cheng, D. Xie, P.A. Belov, Y. Song, M. Su "A Printed Polarization-Sensitive Biochip for Rapid and Accurate Detection of Respiratory Infections", *Advanced Functional Materials*, pp. 2505794, 2025
2. J.A. Enriquez, R. Balafendiev, A.J. Millar, C. Simovski, P.A. Belov "Uniform field in microwave cavities through the use of effective magnetic walls", *Physical Review Applied*, Vol. 23, No. 5, pp. 054053, 2025
3. M. Sandomirskii, E. Petrova, P. Kustov, L. Chizhov, A. Larin, S. Bruyere, V. Yaroshenko, E. Ageev, P. Belov, D. Zuev "Spectral physical unclonable functions: downscaling randomness with multi-resonant hybrid particles", *Nature Communications*, Vol. 16, No. 1, pp. 5097, 2025
4. R. Balafendiev, J.A. Enriquez, P.A. Belov "Tunable Epsilon Near Zero Metamaterial with Rotating Obround-Shaped Meta-Atoms", *Advanced Materials*, pp. 0, 2025
5. I. Deriy, K. Lezhennikova, S.B. Glybovsky, I. Iorsh, O.Y. Yermakov, M. Song, R. Abdeddaim, S. Enoch, P.A. Belov, A.A. Bogdanov "Anomalous Reflection from Hyperbolic Media", *Progress in Electromagnetics Research*, Vol. 182, pp. 85-94, 2025
6. Sakhno D., Enriquez J.A., Belov P.A. "Volume-preserving deformation of honeycomb wire media enables broad plasma-frequency tunability", *Physical Review Applied*, Vol. 24, No. 5, pp. L051001, 2025
7. Koreshin E., Gladyshev S., Matchenya I., Balafendiev R., Terekhov I., Belov P., Bogdanov A. "Bound States in the Continuum in a Wire Medium", *Physical Review B*, Vol. 112, No. 8, pp. L081302, 2025
8. Sandomirskii M., Petrova E., Kustov P., Chizhov L., Larin A., Bruyere S., Yaroshenko V., Ageev E., Belov P., Zuev D. "Spectral physical unclonable functions: downscaling randomness with multi-resonant hybrid particles", *Nature Communications*, Vol. 16, No. 1, pp. 5097, 2025
9. Pankratov A.L., Belov P.A., Boos E.E., Chepurnov A.S., Chiginev A.V., Derbin A.V., Drachnev I.S., Dudko L.V., Gorbunov D.S., Gorlach M.A., Ivanov V., Kravchuk L.V., Libanov M.V., Merkin M.M., Muratova V.N., Pukhov A.E., Salnikov D.V., Satunin P.S., Semenov D.A., Sergeev A.M., Starostin M.I., Tkachev I.I., Troitsky S.V., Trushin M.V., Unzhakov E.V., Vyalkov M.M., Yukhimchuk A.A. "Search for dark-matter axions beyond the quantum limit: The cosmological axion Sarov haloscope proposal", *Physical Review D*, Vol. 112, No. 3, pp. 035003, 2025

2024

10. Y. Li, S. Wan, S. Deng, Z. Deng, B. Lv, C. Guan, J. Yang, A. Bogdanov, P. Belov, J. Shi "Independent control of circularly polarized light with exceptional topological phase coding metasurfaces", *Photonics Research*, Vol. 12, No. 3, pp. 534-542, 2024
11. Jim A. Enriquez, R. Balafendiev, A. J. Millar, C. R. Simovskii, P. Belov "Uniform Field in Microwave Cavities Through the Use of Effective Magnetic Walls", *Physical Review Applied*, 2024
12. Jim A. Enriquez, E. Koreshin, J. P. Del Risco, P. Belov, J. Domingo Baena "Dispersion characteristics of a glide-symmetric square-patch metamaterial with giant anisotropy", *Physical Review B*, vol. 110, 2024
13. D. Sakhno, R. Balafendiev, P. Belov "Anisotropy in a wire medium resulting from the rectangularity of a unit cell", *Physical Review B*, vol. 110, 2024
14. Yi. Li, S. Wan, R. Zhao, Z. Zhu, W. Li, C. Guan, J. Yang, A. Bogdanov, P. Belov, Jinhui Shi "Huygens' metasurface: from anomalous refraction to reflection", *Optics Communications*, pp. 130648, 2024

2023

15. N. Kowitt, R. Balafendiev, D. Sun, M. Wooten, A. Droster, M. Gorlach, K. van Bibber, P. Belov "Tunable wire metamaterials for an axion haloscope", *Physical Review Applied*, Vol. 20, pp. 044051, 2023.
16. R. Gaponenko, M. Sidorenko, D. Zhirihin, I. Rasskazov, A. Moroz, K. Ladutenko, P. Belov, A. Shcherbakov "Experimental demonstration of superdirective spherical dielectric antenna", *Journal of Applied Physics*, Vol. 134, pp. 014901, 2023.
17. A. Larin, Y. Sun, A. Mozharov, E. Ageev, O. Pashina, F. Komissarenko, I. Mukhin, M. Petrov, S. Makarov, P. Belov, D. Zuev "All-optical generation of static electric field in a single metal-semiconductor nanoantenna", *Light: Science and Applications*, Vol. 12, pp. 137, 2023.
18. Y. Sun, D. Zhao, Z. Zhang, N. Garg, B.V. Bogdanov, P.R. Senyushkin, M. Su, D.A. Zuev, S. Kumar, A.K. Ganguli, Y. Song, P. Belov "Green printed hybrid optical dielectric nanostructures on a mirror", *Photonics and Nanostructures - Fundamentals and Applications*, Vol. 55, pp. 101147, 2023.

19. Sakhno D., E. Koreshin, P. Belov "Controlling the dispersion of longitudinal waves via the affine deformation of the interlaced wire medium", *Photonics and Nanostructures - Fundamentals and Applications*, Vol. 55, pp. 101150, 2023.
20. E. Koreshin, I. Matchenya, G. Karsakov, D. Ilin, I. Iorsh, P. Belov "Electrostatic screening in a wire medium", *Physical Review B*, Vol. 107, No. 11, pp. 115170, 2023.
21. A. Millar, S. Anlage, R. Balafendiev, P. Belov, K. Van Bibber, J. Conrad, M. Demarteau, A. Droster, K. Dunne, A. Rosso, J. Gudmundsson, H. Jackson, G. Kaur, T. Klaesson, N. Kowitt, M. Lawson, A. Leder, A. Miyazaki, S. Morampudi, H. Peiris, H. Roising, G. Singh, D. Sun, J. Thomas, F. Wilczek, S. Withington, M. Wooten, J. Dilling, M. Febbraro, S. Knirck, C. Marvinney "Searching for dark matter with plasma haloscopes", *Physical Review D*, Vol. 107, No. 5, pp. 055013, 2023.

2022

22. E. Koreshin, D. Sakhno, N.A. Olekhno, A.N. Poddubny, P. Belov "Emulating quantum photon-photon interactions in waveguides by double-wire media", *Photonics and Nanostructures - Fundamentals and Applications*, Vol. 53, pp. 101104, 2022.
23. A. Mikhailovskaya, K. Grotov, D. Vovchuk, A. Machnev, D.A. Dobrykh, R.E. Noskov, K. Ladutenko, P.A. Belov, P.B. Ginzburg "Superradiant Scattering Limit for Arrays of Subwavelength Scatterers", *Physical Review Applied*, Vol. 18, No. 5, pp. 054063, 2022.
24. K.V. Baryshnikova, S.S. Kharintsev, P.A. Belov, N.A. Ustimenko, S.A. Tretyakov, C.R. Simovski "Metalenses for subwavelength imaging", *Physics-Uspekhi*, Vol. 65, No. 4, pp. 355-378, 2022.
25. D. Sakhno, E. Koreshin, P. Belov "Quadraxial metamaterial", *Optics Letters*, vol. 47, pp.4451, 2022.
26. R. Balafendiev, C. Simovski, A.J. Millar, P. Belov "Wire metamaterial filled metallic resonators", *Physical Review B*, vol. 106, 2022.
27. S. Wan, K. Wang, F. Wang, C. Guan, Wenjiaa Li, Jianlonga Liu; A. Bogdanov, P. Belov "Topologically enabled ultrahigh-Q chiroptical resonances by merging bound states in the continuum", *Optics Letters*, vol. 47, pp. 3291, 2022.
28. Zhu Yining, Luo Hao, Yang Chenying, Qin Bing, Ghosh Pintu, Kaur Sandeep, Shen Weidong, Qiu Min, P. Belov, Li Qiang "Color-preserving passive radiative cooling for an actively temperature-regulated enclosure", *Light: Science and Applications*, 11(1), 122, 2022.
29. K. Grotov, D. Vovchuk, S. Kosulnikov, I. Gorbenko, L. Shaposhnikov, K. Ladutenko, P. Belov, P. Ginzburg "Genetically Designed Wire Bundle Super-Scatterers", *IEEE Transactions on Antennas and Propagation*, Vol. 70, No. 10, pp. 9621 - 9629, 2022.
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Conference presentations:

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2. A. Jandaliyeva, N. Mikhailov, A. Vdovenko, E. Maiorov, A. Shchelokova, P. Belov "Development of a room-sized cavity resonator for improved wireless energy transmission", PIERS 2025, Abu Dhabi, UAE, May 4-8, 2025
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5. P. Belov "Development of metamaterials in Russia and former USSR", Days of diffraction 2025, June 16-17, 2025, online
6. P. Belov "Wire material: from fundamentals to applications", Resonant Nanophotonics Educational Workshop 2025, July 7-11, 2025, Saint-Petersburg, Russia
7. R. Balafendiev, J. Jeong, G. Singh, P. Belov, J. Gudmundsson "Packing a wire metamaterial haloscope into a cylindrical footprint using spiral geometry", 19th International Congress on Artificial Materials for Novel Wave Phenomena, Metamaterials 2025, Amsterdam, Netherlands, September 1-4, 2025
8. D. Sakhno, P. Belov "Anisotropy in a wire medium due to the rectangularity of a unit cell", 19th International Congress on Artificial Materials for Novel Wave Phenomena, Metamaterials 2025, Amsterdam, Netherlands, September 1-4, 2025
9. J.A. Enriquez, P. Belov "Manipulating the Electromagnetic Field in Wire Media Resonators for Enhanced Axion Detection", 19th International Congress on Artificial Materials for Novel Wave Phenomena, Metamaterials 2025, Amsterdam, Netherlands, September 1-4, 2025
10. P. Belov "Ubiquitous Wireless Power Transfer Via Uniform Field Volumetric Resonators", The Dubai Future Forum, November 18-19, 2025, Dubai, UAE
11. P. Belov "Wireless power transmission in enclosed spaces", Horizons of Nanophotonics-2025, December 22-23, 2025, Russia, online

2024

12. Jim A. Enriquez, J. Domingo Baena, P. Belov "Exploring Dispersion Characteristics of a Glide-Symmetric Square Patch Metamaterial", 2024 Eighteenth International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials), September 9-14, 2024, Crete, Greece
13. G. Zmaga, A. Kuzmin, Y. Sun, Qi. Pan, M. Su, Y. Song, D. Zuev, P. Belov "Molecular detection using plasmonic nanostructures of particular geometry", 2024 International Conference Laser Optics (ICLO), July 1-5, 2024, Saint-Petersburg, Russia
14. P. Belov, A. Jandaliyeva, N. Mikhailov, A. Vdovenko, M. Sigantov, E. Maiorov, P. Seregin and A. Shchelokova "Room-Sized Helmholtz-Type Resonator for Ubiquitous Wireless Power Transfer", IEEE Wireless Power Technology Conference and Expo (WPTCE2024), May 8-11, 2024, Kyoto, Japan
15. A. Jandaliyeva, A. Vdovenko, M. Sigantov, L. Suleiman, P. Seregin, M. Udov, A. Shchelokova, P. Belov "Design and demonstration of the volumetric resonator with uniform magnetic field distribution for wireless power transfer", 2024 IEEE Wireless Power Technology Conference and Expo (WPTCE2024), May 8-11, 2024, Kyoto, Japan
16. N. Mikhailov, M. Abrosimova, A. Jandaliyeva, M. Sigantov, P. Belov, A. Shchelokova "Multi-Object Charging in Room-Sized Weakly Coupled WPT System", 2024 IEEE Wireless Power Technology Conference and Expo (WPTCE2024), May 8-11, 2024, Kyoto, Japan
17. M. Gorlach, P. Belov "Tunable Microwave Cavity for Axion Dark Matter Search", PIERS 2024, April 21-25, 2024, Chengdu, Sichuan, China

2023

18. P. Belov "New Phystech: the path from a laboratory within the framework of a megagrant to a faculty", Current issues of thermophysics and physical fluid dynamics, March 19-24, Sheregesh, Russia (virtual)
19. P. Belov, D. Sakhno, E. Koreshin "Longitudinal electromagnetic wavessupported by interlaced wire medium in wide frequency range", Days on Diffraction 2023, June 5-9, 2023, Saint-Petersburg, Russia
20. P. Belov "Studies of electromagnetic metamaterials in Russia and former USSR", IEEE HISTELCON 2023, September 07-09, 2023, Florence, Italy (virtual)
21. P. Belov, A. Jandaliyeva, A. Vdovenko, M. Sigantov, L. Suleiman, P. Seregin, M. Udov, A. Shchelokova "Volumetric Resonator Based on Split Loops for Wireless Power Transfer", Metamaterials 2023: The 17th

International Congress on Artificial Materials for Novel Wave Phenomena, September 11-16, 2023, Crete, Greece

2022

22. P. Belov "Metamaterials: from left-handed media to hyperbolic metamaterials", Quantum Connection Summer School, June 21-22, 2022, Stockholm, Sweden
23. P. Belov "Metamaterial-inspired and ceramic-based structures for clinical MRI applications", IEEE 5th International Conference on Electronic Information and Communication Technology, August 21-23, 2022, Hefei, China (virtual)
24. P. Belov "Wire Metamaterial Use For Dark Matter Detection" (Metamaterials 2022: The 16th International Congress on Artificial Materials for Novel Wave Phenomena), September 12-17, 2023, Siena, Italy (virtual)
25. R. Balafendiev, C. Simovski, A. Millar, P. Belov "Wireless power transmission using new physical principles", VI International conference "Information technologies and technical controls" (ICCT-2022), October 3-7, 2022, Astrakhan, Russia (virtual)
26. P. Belov "Metamaterials Discussion", Oakridge workshop, October 21-22, 2022 (virtual)

2021

27. D. Sakhno, E. Koreshin, P. Belov "Longitudinal waves with extremely short wavelength in interlaced wire media", conference Metamaterials 2021: 15th International Congress on Artificial Materials for Novel Wave Phenomena, 20-25 September 2021, New York, USA
28. P. Belov "Longitudinal waves with extremely short wavelength in interlaced wire media", conference Metanano 2021, 12-16 September, Tbilisi, Georgia

2020

29. A.P. Slobozhanyuk, I. Zivkovic, A. Shchelokova, A. A. Mikhailovskaya, I.V. Sushkov, E. Nenasheva, I.V. Melchakova, P.A. Belov, A Webb "Applications of dielectric pads, novel materials and resonators in 1.5T and 3T MRI", Journal of Physics: Conference Series, Vol. 1461, No. 1, pp. 012166, 2020
30. Sinelnik, A., Shishkin, I., Yu, X., Samusev K., Belov P., Limonov M., Ginzburg, P., Rybin, M. "Optical properties of icosahedral quasicrystals", AIP Conference Proceedings, 14-18 September 2020, St. Petersburg, Russian Federation, Virtual
31. Markvart A., Song M., Belov P.A., Simovski C.R., Kapitanova P.V. "Parametric study of metamaterial-inspired resonator for wireless power transfer", METANANO 2019, 15-19 July 2019, St. Petersburg, Russian Federation
32. Shamkhi H., Baryshnikova K.V., Sayanskiy A.D., Kapitanova P.V., Terekhov P.D., Belov P.A., Karabchevsky A., Evlyukhin A.B., Kivshar Y.S., Shalin A.S. "Simultaneous suppression of forward and backward light scattering by high-index nanoparticles based on Kerker-like effects", METANANO 2019, 15-19 July 2019 St. Petersburg, Russian Federation
33. Slobozhanyuk A.P., Zivkovic I., Shchelokova A., Mikhailovskaya A.A., Sushkov I.V., Nenasheva E., Melchakova I.V., Belov P.A., Webb A. "Applications of dielectric pads, novel materials and resonators in 1.5T and 3T MRI", METANANO 2019, 15-19 July 2019, St. Petersburg, Russian Federation
34. Shamkhi H., Baryshnikova K.V., Sayanskiy A.D., Terekhov P.D., Gurvitz E.A., Valero A., Karabchevsky A., Kapitanova P.V., Evlyukhin A.B., Belov P.A., Kivshar Y.S., Shalin A.S. "Non-Huygens invisible metasurfaces", METANANO 2019, 15-19 July 2019 St. Petersburg, Russian Federation

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35. Glybovski S.B., Solomakha G., Hurshkainen A.A., Nikulin A., Dobrykh D.A., Abdeddaim R., Slobozhanyuk A.P., Shchelokova A.V., Kozachenko A.V., Efimtcev A.Y., Melchakova I.V., Enoch S., Belov P.A. "Surface and Volumetric Modes of Resonators Based on Periodic Wires for MRI Applications", 13th European Conference on Antennas and Propagation (EuCAP), 31 March-5 April 2019, Krakow, Poland
36. P. Belov "Hybrid nanophotonics for sensing, thermometry and generation of white light at the nanoscale", Discussions on Nano & Mesoscopic Optics DINAMO, 21-22 April 2019, Galapagos, Ecuador
37. Zograf G., Petrova M.I., Petrov M.I., Belov P.A., Komissarenko F.E., Makarova E.K., Pushkarev A.P., Sun Y., Ghosh P., Li Q., Qiu M., Makarov S.V., Zyuzin M.V. "Semiconductor resonant all-optical temperature sensor and thermal release trigger of encapsulated anti-cancer drugs for in vitro studies", 6th International School and Conference "Saint Petersburg OPEN 2019": Optoelectronics, Photonics, Engineering and Nanostructures, 22-25 April 2019, Saint Petersburg, Russian Federation
38. Al-Naima K., Belov P.A., Kivshar Y.S., Alexander S.S., Baryshnikova K.V., Saianskiy A.D., Terekhov P.D., Gurvitz E.A., Canos Valero A., Karabchevski A., Kapitanova P.V., Evlyukhin A.B. "Non-Huygens invisible metasurfaces", 2019 Photonics & Electromagnetics Research Symposium - Spring (PIERS- Spring), 17-20 June, 2019, Rome, Italy
39. Alena V. Shchelokova, Alexey P. Slobozhanyuk, Stanislav B. Glybovski, Irina V. Melchakova, Pavel A. Belov "Metasurfaces based coils for MRI", 10th International Conference on Metamaterials, Photonic Crystals and

Plasmonics (META 2019), JULY 23 – 26, 2019, Lisbon, Portugal

40. Mingzhao Song, Aleksandr Markvart, Constantin Simovski, Polina Kapitanova, Pavel Belov “Wireless power transfer based on dielectric resonators and metasurfaces”, 21st International Conference on Electromagnetics in Advanced Applications (ICEAA 2019), 9-13 Sept. 2019, Granada, Spain
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43. Song M., Belov P.A., Glybovsky S.B., Simovski C.R., Kapitanova P.V. “Metasurface for extension of wireless power transfer distance”, 13th International Congress on Artificial Materials for Novel Wave Phenomena, Metamaterials 2019, 16-21 Sept. 2019, Rome, Italy
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46. Sushencev I., Shcherbakov A.A., Ladutenko K.S., Belov P.A. “Superdirective dielectric spherical multilayer antennae”, 2019 IEEE International Conference on Microwaves, Antennas, Communications and Electronic Systems (COMCAS), Israel, 4-6 Nov. 2019, Tel-Aviv
47. Kurdjumov S.A., Ciobanu L., Djemai B., Belov P.A., Glybovski S.B., Nenasheva E.A., Webb A.G., Moussu M., Dubois M., Enoch S., Abdeddaim R. “Efficient Probes for Ultra-high-field Magnetic Resonance Microscopy Based on Coupled Ceramic Resonators”, 2019 IEEE International Conference on Microwaves, Antennas, Communications and Electronic Systems (COMCAS), 4-6 Nov. 2019, Tel-Aviv, Israel

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55. Shchelokova A.V., Brui E.A., Glybovski S.B., Slobozhanyuk A.P., Melchakova I.V., Belov P.A. “Tunability methods for magnetic resonance imaging applications of metasurfaces”, 12th International Congress on Artificial Materials for Novel Wave Phenomena (Metamaterials), 27 Aug.-1 Sept. 2018, Espoo, Finland
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- A.B. Khanikaev “Experimental observation of spin-locked propagation of topological edge states in an open non-Hermitian metasurface”, METANANO 2018, 17–21 September 2018, Sochi, Russian Federation
58. Markvart A., Song M., Kosulnikov S., Glybovski S., Belov P., Simovski C., Kapitanova P. “Metamaterials-inspired resonator for wireless power transfer systems”, METANANO 2018, 17–21 September 2018, Sochi, Russian Federation
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60. Lepeshov S.I., Gorodetskii A.A., Toropov N.A., Vartanyan T.A., Krasnok A.E., Belov P.A., Rafailov E.U. “Novel Optimized Hybrid Terahertz Photoconductive Antennas”, METANANO 2018, 17–21 September 2018, Sochi, Russian Federation

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65. Kolodny S.A., Sun Y., Zuev D.A., Belov P.A., Krasnok A.E. “Approach for fine-tuning of hybrid dimer nanoantennas via laser melting”, 2017 Progress In Electromagnetics Research Symposium - Spring (PIERS), 22–25 May 2017, St Petersburg, Russia
66. S. Lepeshov, D. Zuev, V. Milichko, P. Belov, A. Krasnok, I. Mukhin, A. Gudovskikh, A. Miroshnichenko, “Experimental demonstration of a reconfigurable magnetic Fano resonance in hybrid oligomers”, Days on Diffraction (DD), 19-23 June 2017, St. Petersburg, Russia
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68. S. Li, S. Lepeshov, R. Savelev, D. Baranov, P. Belov, A. Krasnok, “Dielectric Yagi-Uda nanoantennas driven by electron-hole plasma photoexcitation”, Saint Petersburg OPEN 2017, 3-6 April 2017, St Petersburg, Russia
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