

Andrey M. Vyurishev

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Personal Details	Date and place of birth: May 5, 1983, Russia Personal homepage: http://kirensky.ru/ru/institut/person/cv/vam
Education and Work Experience	<p>2011 – present time Researcher Kirensky Institute of Physics, Krasnoyarsk</p> <p>2010 – present time Researcher Siberian Federal University, Krasnoyarsk</p> <p>2009 PhD in Physics Adviser: Dr. Aleksandr Aleksandrovsky Kirensky Institute of Physics, Krasnoyarsk</p> <p>2006 MSc in Physics Krasnoyarsk State Technical University</p>
Research Field	Nonlinear, Ultrafast and Quantum optics
Research Experience	Harmonic generation, Cerenkov nonlinear diffraction, random quasi-phase-matching, auto- and crosscorrelation measurements of ultrashort pulses
Publications	<ol style="list-style-type: none">1. A. S. Aleksandrovsky, A. M. Vyurishev, A. I. Zaitsev and V. V. Slabko. Random quasi-phase-matched nonlinear optical conversion of supercontinuum to the ultraviolet, <i>Appl. Phys. Lett.</i> 103, 251104 (2013)2. A. M. Vyurishev, A. S. Aleksandrovsky, A. I. Zaitsev, A. M. Zhyzhaev, A. V. Shabanov, and V. Petrov, Random spectrally resolved Maker fringes, <i>Opt. Lett.</i> 38, 2691 (2013)3. A. M. Vyurishev, A. S. Aleksandrovsky, A. I. Zaitsev, and V. V. Slabko, Cerenkov nonlinear diffraction of femtosecond pulses, <i>J. Opt. Soc. Am. B</i> 30, 2014 (2013)4. A.M. Vyurishev, A.S. Aleksandrovsky, A.I. Zaitsev, V.V. Slabko. Cerenkov nonlinear diffraction in random nonlinear photonic crystal of strontium tetraborate. <i>Appl. Phys. Lett.</i> 101, 211114 (2012)5. A.S. Aleksandrovsky, A.M. Vyurishev, A.I. Zaitsev. Applications of Random Nonlinear Photonic Crystals Based on Strontium Tetraborate. <i>Crystals</i> 2, 1393 (2012)6. A.S. Aleksandrovsky, A.M. Vyurishev, A.I. Zaitsev, G.I. Pospelov, V.V. Slabko. Diagnostics of fs pulses by noncollinear random quasi-phase-matched frequency doubling. <i>Appl. Phys. Lett.</i> 99, 211105 (2011)7. Aleksandrovsky A. S., Vyurishev A. M., Zaitsev A. I., Ikonnikov A. A., Pospelov G. I. Ultrashort pulses characterization by nonlinear diffraction from virtual beam. <i>Appl. Phys. Lett.</i> 98, 061104 (2011)8. Aleksandrovsky A. S., Vyurishev A. M., Zaitsev A. I., Ikonnikov A. A., Pospelov G. I., V.E. Rovskii, V.V. Slabko. Frequency conversion in nonlinear photonic crystal of strontium tetraborate. <i>Opt. Spectr.</i> 111, 180 (2011)9. A.S. Aleksandrovsky, A.M. Vyurishev, A.I. Zaitsev, A.A. Ikonnikov, G.I. Pospelov, V.E. Rovskii, V.V. Slabko. Deep-UV generation in an SBO crystal with an irregular domain structure. <i>Quantum. Electron.</i> 41, 748 (2011)10. Aleksandrovsky A.S, Vyurishev A.M., Zaitsev A.I., Slabko V.V. Random quasi-phase-matched conversion of broadband radiation in a nonlinear photonic crystal. <i>Phys. Rev. A</i> 82, 055806 (2010)



- 11.** A.S. Aleksandrovsky, A.M. Vyurishev, I.E. Shakhura, A.I. Zaitsev, A.V. Zamkov. Random quasi-phase-matching in nonlinear photonic crystal structure of strontium tetraborate. *Phys. Rev. A* 78, 031802(R) (2008)
- 12.** A.S. Aleksandrovsky, A.M. Vyurishev, V.V. Slabko, A.I. Zaitsev, A.V. Zamkov. Tunable femtosecond frequency doubling in random domain structure of strontium tetraborate. *Opt. Comm.* 282, 2263 (2009)
- 13.** A. Aleksandrovsky, A. Vyurishev, A. Zaitsev, A. Zamkov, and V. Arkhipkin. Detection of randomized nonlinear photonic crystal structure in a non-ferroelectric crystal. *Journal of Optics A: Pure and Applied Optics* 9, S334 (2007)
- 14.** Aleksandrovsky A.S., Vyurishev A.M., Shakhura I.E., Zaitsev A.I., Zamkov A.V. Nonlinear optical processes in domain structures of strontium tetraborate. *Opt. Spectr.* 3, 359 (2009)
- 15.** V'yurishev A.M., Aleksandrovskii A.S., Cherepakhin A.V., Zaitsev A.I., Zamkov A.V., Rovskii V.E. Frequency doubling of ultrashort pulses in a nonlinear photonic strontium tetraborate crystal. *Bulletin of the Lebedev Physics Institute* 37, 85 (2010)

**Professional
Recognitions,
Awards**

1. Award of Mayor for young talents, Krasnoyarsk, 2011
2. International Financial Club Prize, Krasnoyarsk, 2011
3. Our results were included in the List of Achievements of Siberian Branch of Russian Academy of Science (2010, 2013).

**Research
Grants**

1. Grant of the President of Russian Federation, MK-250.2013.2 (2013-2014)
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3. Grant of Carl Zeiss for young scientists (2011)
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