CURRICULUM VITAE

CONTACT INFORMATION

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PERSONAL INFORMATION

Date of Birth	March 21, 1958
Place of Birth	Kuybyshev (presently, Samara), USSR
Citizenship	Russian Federation
Sex	Male

EDUCATION

1975-1981	S.P. Korolyov Kuibyshev Aviation Institute, presently, Samara National Research University (Samara University), student, 1981 - applied mathematician
1985-1988	Post-graduated student of Samara University, 1988- Candidate in Physics & Maths.

SCIENTIFIC DEGREE

Doctor in Physics & Maths (1996) degrees from Samara University

SCIENTIFIC TITLE

Professor (2004)

CURRENT POSITION

Director of Image Processing Systems Institute of the RAS - Branch of the Federal Scientific-Research Centre "Crystallography and Photonics" of the Russian Academy of Sciences

EMPLOYMENT HISTORY

1981-1984	Assistant of professor at Samara University’s Technical Cybernetics sub-department
1988-1992	Head of scientific sector of Kuibyshev Branch of Central Design Institute of Unique Instrumentation of the USSR Academy of Sciences
1992-1993	Vice-director of Samara Branch of Central Design Institute of Unique Instrumentation of the Russian Academy of Sciences
1993-2015	Vice-director of Image Processing Systems Institute of the RAS
2015-now	Director of Image Processing Systems Institute of the RAS

RESEARCH INTERESTS

Diffractive optics and nanophotonics

Mathematical modeling, high performance computing

Image processing, computer vision

KEY WORDS

Diffractive optics, mathematical modeling, image processing, nanophotonics,
high performance computing, computer vision

AWARDS

1998	Provincial Award for Excellence in Science and Technology
1999	Medal of the Order of "Merit of the Fatherland" of the second degree
2014	Honored worker of science of the Samara region
2016	Samara region Governor's award for outstanding results in solving natural and mathematical problems
2016	Scopus Award Russia 2016 for contribution to the development of science

PUBLICATIONS

During the last five years

More than 100 scientific papers, including 3 monographs, 20 patents and over 50 articles in refereed journals. In particular, the following articles:

Kazanskiy N.L., Serafimovich P.G., Khonina S.N. Use of photonic crystal cavities for temporal differentiation of optical signals // Optics Letters, 2013, Vol. 38, No. 7, pp. 1149–1151. DOI: 10.1364/OL.38.001149.

Kazanskiy N.L., Kolpakov V.A., Podlipnov V.V. Gas discharge devices generating the directed fluxes of off-electrode plasma // Vacuum, 2014, Vol. 101, pp. 291-297.

Kazanskiy N.L. and Serafimovich P.G. Coupled-resonator optical wave-guides for temporal integration of optical signals // Optics Express, 2014, Vol. 22, Iss. 11, pp. 14004-14013.

Khonina S.N., Savelyev D.A., Kazanskiy N.L. Vortex phase elements as detectors of polarization state // Optics Express, 2015, Vol. 23, No. 14, pp. 17845-17859. doi: 10.1364/OE.23.017845.

Doskolovich L.L., Bezus E.A., Moiseev M.A., Bykov D.A., Kazanskiy N.L. Analytical source-target mapping method for the design of freeform mirrors generating prescribed 2D intensity distributions // Optics Express, Vol. 24, Issue 10, pp. 10962-10971 (2016). doi: 10.1364/OE.24.010962..

Nikonorov A.V., Petrov M.V., Bibikov S.A., Yakimov P.Y., Kutikova V.V., Yuzifovich Y.V., Morozov A.A., Skidanov R.V., Kazanskiy N.L. Toward Ultralightweight Remote Sensing With Harmonic Lenses and Convolutional Neural Networks // IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2018, Vol. 11, Iss. 9, pp. 3338-3348. DOI: 10.1109/JSTARS.2018.2856538.

Bykov D.A., Doskolovich L.L., Mingazov A.A., Bezus E.A., Kazanskiy N.L. Linear assignment problem in the design of freeform refractive optical elements generating prescribed irradiance distributions // Optics Express, 2018, Vol. 26(21), pp. 27812-27825. https://doi.org/10.1364/OE.26.027812.

BOOKS

"Methods for Computer Design of Diffractive Optical Elements" edited by V.A. Soifer / Doskolovich L.L., Golovashkin D.L., Kazanskiy N.L., Khonina S.N., Kotlyar V.V., Pavelyev V.S., Skidanov R.V., Soifer V.A., Solovyev V.S., Usplenyev G.V., and Volkov A.V. // A Wiley Interscience Publication. John Wiley & Sons, Inc., 2002, 765 p.

"Methods for Computer Design of Diffractive Optical Elements" edited by V.A. Soifer / Doskolovich L.L., Golovashkin D.L., Kazanskiy N.L., Khonina S.N., Kotlyar V.V., Pavelyev V.S., Skidanov R.V., Soifer V.A., Solovyev V.S., Usplenyev G.V., and Volkov A.V. // Tianjin Science & Technology Press, Tianjin, 2007, 570 p. (in Chinese).

Kazanskiy N.L., Kolpakov V.A. Temperature Measurement of a Surface Exposed to a Plasma Flux Generated Outside the Electrode Gap // In book "Heat Transfer - Engineering Applications" Edited by Vyacheslav S. Vikhrenko, 2011, Publisher: InTech, Croatia, ISBN 978-953-307-361-3, pp. 87-118. DOI: 10.5772/26917.

Khonina S.N., Kazanskiy N.L., Soifer V.A. Optical Vortices in a Fiber: Mode Division Multiplexing and Multimode Self-Imaging // In book "Recent Progress in Optical Fiber Research" Edited by: Moh. Yasin, Sulaiman W. Harun and Hamzah Arof, 2012, Publisher: InTech, Croatia, ISBN 978-953-307-823-6, pp. 327-352. DOI: 10.5772/28067.

"Computer design of diffractive optics", edited by V.A. Soifer / Soifer V.A., Golovashkin D.L., Doskolovich L.L., Kazansky N.L., Kotlyar V.V., Pavelev V.S., Skidanov R.V., Khonina S.N. // Cambridge Inter. Scien. Pub. Ltd. & Woodhead Pub. Ltd., 2013, 896 p. ISBN 978-1-84569-635-1. DOI: 10.1533/9780857093745.

Kazanskiy N.L., Kolpakov V.A. Optical Materials: Microstructuring Surfaces with Off-Electrode Plasma. – CRC Press, Taylor & Francis Group, 2017, 212 p. ISBN 978-1-1381-9728-2 - CAT# K31257. https://www.crcpress.com/Optical-Materials-Microstructuring-Surfaces-with-Off-Electrode-Plasma/Kazanskiy-Kolpakov/p/book/9781138197282.

PATENTS

57 patents, including 20 in the last 5 years. In particular, the following patents

Skidanov R. V., Kazanskiy N. L., Kharitonov S. I. Depicting hyperspectrometer // Eurasian patent for invention № 024777 of 24.08.2016. Bulletin number 10.

Skidanov R. V., Kazanskiy N. L., Moiseev O.Yu. Depicting hyperspectrometer based on diffraction grating with variable height of ridges // Eurasian patent for the invention № 024759 from 19.08.2016. Bulletin № 10.

Kazanskiy N. L., Serafimovich P.G., Kharitonov S. I. Dispersing element for spectrometer // Eurasian patent for invention № 025868 from 28.02.2017.

PROFESSIONAL MEMBERSHIPS

Member of SPIE, IAPR, OSA