Bi-Doped Optical Fibers and Fiber Lasers

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Author(s)

Igor A. Bufetov ; Mikhail A. Melkumov ; Sergei V. Firstov ; Konstantin E. Riumkin ; Alexey V. Shubin ; Vladimir F. Khopin ; Ale... View All Authors

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Igor A. Bufetov
Fiber Optics Research Center, the Russian Academy of Sciences, Moscow, Russia

Igor A. Bufetov was born in Kharkov, Ukraine, on July 24, 1949. He received the Graduation degree from the Moscow Institute of Physics and Technology, Moscow, Russia, in 1972, the Ph.D. degree from the P.N. Lebedev Physics Institute, the Russian Academy of Science, Moscow, in 1983, and the D.Sc. degree in physics and mathematics from the A.M. Prokhorov General Physics Institute, the Russian Academy of Sciences, Moscow, in... View More

Mikhail A. Melkumov
Fiber Optics Research Center, the Russian Academy of Sciences, Moscow, Russia

Mikhail A. Melkumov was born in Moscow, Russia, on November 21, 1978. He received the Graduation degree from Moscow State University, Moscow, in 2001, and the Ph.D. degree from the Fiber Optics Research Center at the Russian Academy of Sciences, Moscow, in 2006. Currently, he is the Head of the Fiber Lasers and Amplifiers Laboratory in FORC RAS. His research interests include: Raman and Rear-earth-doped fiber lasers, Bi-d... View More

Sergei V. Firstov
Fiber Optics Research Center, the Russian Academy of Sciences, Moscow, Russia

Sergei V. Firstov was born in Bolshie Berezniki, Russia, on January 1, 1984. He received the Graduation degree from the Ogarev Mordovia State University, Saransk, Russia, in 2006, and the Ph.D. degree in laser physics from the Fiber Optics Research Centre, Russian Academy of Sciences, Moscow, Russia, in 2009. Currently, he serves as a Research Scientist at the Fiber Optics Research Center, the Russian Academy of Sciences.... View More

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Authors

Igor A. Bufetov
Fiber Optics Research Center, the Russian Academy of Sciences, Moscow, Russia

Igor A. Bufetov was born in Kharkov, Ukraine, on July 24, 1949. He received the Graduation

include: Raman and Rear-earth-doped fiber lasers, Bi-doped fiber lasers and amplifiers, and spectroscopy of active centers in silica-based glasses and fibers.

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Sergei V. Firstov
Fiber Optics Research Center, the Russian Academy of Sciences, Moscow, Russia

Sergei V. Firstov was born in Bolshie Berezniki, Russia, on January 1, 1984. He received the Graduation degree from the Ogarev Mordovia State University, Saransk, Russia, in 2006, and the Ph.D. degree in laser physics from the Fiber Optics Research Centre, Russian Academy of Sciences, Moscow, Russia, in 2009. Currently, he serves as a Research Scientist at the Fiber Optics Research Center, the Russian Academy of Sciences. His research interests include the spectroscopic and lasing properties of active centers in silica-based fibers doped with rare-earth, transition and p-elements.

Konstantin E. Riumkin
Fiber Optics Research Center, the Russian Academy of Sciences, Moscow, Russia

Konstantin E. Riumkin was born in Chegdomin, Russia, on July 15, 1988. He received the B.S. and Engineer degrees in fiber optics telecommunications from the Far Eastern State Transportation University, Khabarovsk, Russia, in 2009 and 2010, respectively. He is currently working toward the Ph.D. degree at the Fiber Optics Research Center of the Russian Academy of Sciences, Moscow, Russia. His research interests include the study of bismuth active optical fibers and development of fiber sources. He is taking part in the study of optical properties of bismuth active optical fibers, specifically of excited state absorption.

Alexey V. Shubin
Fiber Optics Research Center, the Russian Academy of Sciences, Moscow, Russia

Alexey V. Shubin was born in Moscow, Russia, on May 17, 1972. He received the Graduation degree from Moscow State University, Moscow, in 1995. In 1997, he joined the Fiber Optics Research Center, the Russian Academy of Sciences, Moscow, where he is currently a Research Scientist. His research interests include nonlinear fiber optics and fiber lasers.

Vladimir F. Khopin
Institute of Chemistry of High-Purity Substances, the Russian Academy of Sciences, Nizhny Novgorod, Russia

Vladimir F. Khopin was born in Voronezh, Russia, on October 23, 1949. He received the Graduation degree from the Gorky State University, Gorky, Russia, in 1976. He received the Ph.D. degree in chemistry at the Institute of Chemistry of High-Purity Substances, the Russian Academy of Sciences, Nizhny Novgorod, Russia, in 1992. Since 1976, he has worked as a Research Scientist at the Institute of Chemistry, Academy of Sciences of the USSR, Gorky. Currently, he is a Leading Research Scientist at the Institute of Chemistry of High-Purity Substances. His research interests include the development of methods for production of different types active optical fibers by MCVD.

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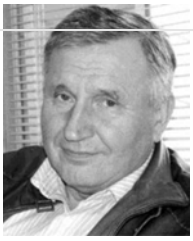
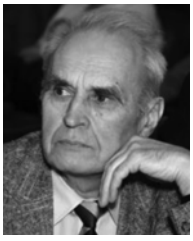


Alexei N. Guryanov
Institute of Chemistry of High-Purity Substances, the Russian Academy of Sciences, Nizhny Novgorod, Russia

Alexei N. Guryanov was born in Nizhny Novgorod Region, Russia, on January 20, 1944. He received the Graduation degree from the Nizhny Novgorod State University, Nizhny Novgorod, Russia, in 1968, and the Ph.D. degree and the Doctor of Science degree in chemistry from the Institute of Chemistry of High-Purity Substances, Russian Academy of Sciences, Nizhny Novgorod, in 1974 and 1988, respectively. Since 2000, he has been a Corresponding Member of the Russian Academy of Sciences. Currently, he is the Head of the Laboratory of Optical Fibers Technology, the Institute of Chemistry of High-Purity Substances. His main research interest includes high-purity substances materials for fiber optics and optical fiber technology. He has published more than 300 scientific papers and patents.



Evgeny M. Dianov
Fiber Optics Research Center, the Russian Academy of Sciences, Moscow, Russia

Evgeny M. Dianov (M'97) was born in Tula Region, Russia, on January 31, 1936. He received the Graduation degree from the Moscow State University, Moscow, Russia, in 1960, and the Ph.D. and D.Sc. degrees in physics and mathematics from the P. N. Lebedev Physical Institute, the Russian Academy of Sciences, Moscow, in 1966 and 1977, respectively. Since 1994, he has been an Academician at the Russian Academy of Sciences. Currently, he is the Director of the Fiber Optics Research Centre of the Russian Academy of Sciences. His research interests include fiber optics, laser physics, and nonlinear optics. He has published more than 700 scientific papers and patents. Dr. Dianov was awarded the State Prize of the Soviet Union, in 1974, and the State Prize of Russia in 1998. He is the Fellow of the Optical Society of America and a Member of the MRS.

Keywords

IEEE Keywords
Luminescence, Optical fibers, Wavelength measurement, Fiber lasers

INSPEC: Controlled Indexing
bismuth, fibre lasers, laser modes, laser transitions, optical fibres, reviews

INSPEC: Non-Controlled Indexing
Bi-doped optical fibers, infrared Bi-doped fiber laser, fiber glass compositions, laser transitions, continuous-wave fundamental-mode power levels, wavelength 1.15 mum to 1.55 mum, power 22 W

Author Keywords
Bismuth lasers, optical fiber lasers, optical fiber materials, laser materials

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