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**Yuri N. Kulchin
Roman V. Romashko
Jyh-Chiang Jiang**
Editors

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Contents

ix	<i>Authors</i>
xi	<i>Conference Committee</i>
xiii	<i>Introduction</i>

SESSION 1 NANO-PHOTONICS AND NANOMATERIALS

11024 02	Embedding of iron silicide nanocrystals into monocrystalline silicon: suppression of emersion effect [11024-3]
11024 03	Optical properties of TiO₂ nanostructured films [11024-25]
11024 04	Optical absorption by a nanosystem with dielectric quantum dots [11024-37]
11024 05	The development of photonic nanojet generated dielectric microstructures for local luminescence enhancement [11024-40]
11024 06	Optical beam deflection method for the diagnostics of nanosuspension [11024-7]
11024 07	Bremsstrahlung of electrons in periodic atomic structures [11024-13]

SESSION 2 MATERIALS FOR OPTOELECTRONICS AND PHOTONICS

11024 08	Interrelation between optical and radiation resistance of lithium niobate crystals of different chemical composition [11024-10]
11024 09	Nominally pure and strongly doped optically nonlinear lithium niobate crystals with low photorefractive effect and coercive field [11024-11]
11024 0A	The effect of the relative concentration of strontium in the cation sublattice of strontium bismutate on its photocatalytic properties [11024-12]
11024 0B	Influence of vacuum heating on magnetic characteristics of α-Fe₂O₃ ceramics obtained via spark plasma sintering [11024-14]
11024 0C	Mn²⁺ and Cu²⁺-doped ZnS quantum dots stabilized by N-(2-carboxyethyl)chitosans [11024-21]
11024 0D	Light-induced currents in the metal-ferroelectric-metal sandwich structure [11024-19]

SESSION 3 PHOTONICS IN LIFE SCIENCES

- 11024 OE **Growth of *Solanum tuberosum* plantlets in vitro under LED light sources** [11024-8]
- 11024 OF **Study of thermal relaxation processes in life tissues by blood pulsation imaging technique**
[11024-29]
- 11024 OG **Laser biosensor based on micromechanical oscillator** [11024-36]

SESSION 4 OPTICAL MEASUREMENTS AND SENSORS

- 11024 OH **Dendrimeric rhodamine-derived chemosensor for Au^{3+}** [11024-15]
- 11024 OI **Influence of the laser repetition rate on the limits of detection in the femtosecond LIBS of the water solutions** [11024-23]
- 11024 OJ **Rhodamine-microalgae based bionic structures for metal ions detection** [11024-24]
- 11024 OK **Metrological performance of integrated waveguide-based SPR refractometer: eigenmode expansion perspective** [11024-26]
- 11024 OL **Investigation of the spectral and temporal characteristics of plasma radiation in the case of breakdown on the surface of Ca aqueous solutions generated by femtosecond laser pulses**
[11024-31]
- 11024 OM **Weak seismic waves detection using ice-mounted fiber-optic accelerometers** [11024-32]
- 11024 ON **Using the ultrasound for optical study of sea water** [11024-34]
- 11024 OO **Registration of acoustic emission waves in anisotropic composite plates by fiber-optic sensors**
[11024-35]
- 11024 OP **Sparse antenna arrays based on Costas arrays** [11024-41]

SESSION 5 OPTICAL SIGNAL PROCESSING

- 11024 OQ **Method for automatic estimation of the electronic optical converter background signal during measurements of seawater fluorescence** [11024-33]
- 11024 OR **Reconstruction of the average effective aerosol concentration field in the Far Eastern region by the method of fluid location of the atmosphere** [11024-1]
- 11024 OS **Tunable phase plate in a wide wavelength range** [11024-9]

SESSION 6 NONLINEAR OPTICS AND HOLOGRAPHY

- 11024 OT **Self-focusing of coherent light beams in photorefractive lithium niobate due to assistance of incoherent background** [11024-20]
- 11024 OU **Modeling of the holographic formation kinetics of diffractive optical elements for light beams conversion in PDLCs** [11024-28]
- 11024 OV **Recording of dynamic holograms in photorefractive crystals CdTe by polychromatic IR radiation** [11024-30]
- 11024 OW **Orthogonal vectorial two-wave mixing in optically active photorefractive crystal** [11024-38]
- 11024 OX **Characteristics of controllable holographic DOEs in PDLC for light beams conversion into Bessel-like ones** [11024-39]
- 11024 OY **Four-wave mixing in the transparent nanosuspension** [11024-17]

SESSION 7 LASER TECHNOLOGY

- 11024 OZ **Laser powder fusing as an additive manufacturing process to create the ferromagnetic coatings on the basis of Fe and Sm powders on stainless steel substrate** [11024-4]
- 11024 10 **Comparative study of laser powder fusing of Sm-Co and Sm-Fe systems on the duralumin substrate: microstructure and magnetic properties** [11024-5]
- 11024 11 **An influence of laser fusing of Sm, Co and Fe powders on the Young's modulus and microhardness of fused coatings on two types of substrates** [11024-6]
- 11024 12 **Microstructure and properties of bulk pure magnesium fabricated by direct laser deposition** [11024-16]

Authors

Numbers in the index correspond to the last two digits of the seven-digit citation identifier (CID) article numbering system used in Proceedings of SPIE. The first five digits reflect the volume number. Base 36 numbering is employed for the last two digits and indicates the order of articles within the volume. Numbers start with 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0B...0Z, followed by 10-1Z, 20-2Z, etc.

Agapova, T. M., 0L	Kvach, A. A., 0B
Amosov, Andrey V., 03, 04	Leonov, Andrey A., 0J
Anikin, Igor Yu., 0P	Lisitsa, V. V., 0L
Asalkhanova, Mariya A., 0V	Lyakhova, Lyudmila P., 0F
Babiy, M. Yu., 0I, 0L	Makarova, O. V., 08
Bashkov, I. O., 0O	Mamontov, Oleg V., 0F
Bashkov, O. V., 0O	Mashtalyar, Dmitry V., 12
Belaventseva, Anjelika V., 0F	Mayor, Alexander Yu., 0I, 0L, 0Q
Belov, A. A., 0B	Mironenko, A., 0C, 0H
Bezruk, Michael N., 0O, 0W	Modin, E., 0C
Blokh, Artem I., 0A	Myagotin, Artyom V., 0Y
Borovsky, A. V., 0L	Nagorniy, Ivan G., 0Q, 0N
Bratskaya, S., 0C	Nakonechnaya, Olga V., 0E
Bukin, O. A., 0L	Nashchochin, Egor O., 0A
Bulanov, Alexey V., 0N	Nazirov, A., 0C, 0H
Bulgakov, Victor P., 0E	Nepomnyaschiy, Alexander V., 05, 0Z, 10, 11
Chusovitkin, Evgeniy, 02	Nikitin, Aleksander I., 0Z, 10, 11, 12
Dotsenko, Sergey, 02	Okunev, D., 0T
Dubinkina, Ekaterina, 0R	Palatnikov, M. N., 08, 09
Dyshlyuk, Anton V., 0K	Panasyuk, S. L., 08
Dzyuba, Vladimir P., 03, 04	Papynov, E. K., 0B
Efimov, Timofey A., 0G	Pestov, A., 0C
Efremenko, V. G., 0S	Petrov, Yuriy S., 0M
Gafitskaya, Irina N., 0E	Poddubny, Vasilij, 0R
Galkin, Konstantin N., 03	Pokutnyi, Sergey I., 04
Galkin, Nikolay G., 02, 0Z, 10, 11	Portnyagin, A. S., 0B
Gaponov, A. Y., 0S	Postnova, Irina V., 03
Gnedenkov, Andrey S., 12	Privar, Yu., 0C
Gnedenkov, Sergey V., 12	Proshenko, D. Yu., 0I, 0L
Golik, N. N., 0L	Pustozerov, A., 0T
Golik, S. S., 0I, 0L	Puz', Artem V., 12
Goroshko, Dmitry, 02	Romashko, Roman V., 0F, 0G, 0O, 0V, 0W
Grishchenko, Ola V., 0E	Salyuk, Pavel A., 0Q
Gutakovskii, Anton, 02	Semkin, Artem O., 0U, 0X
Iliyn, A. A., 0I, 0L	Sergeev, Alexander A., 05, 0H, 0J
Ivanenko, D. V., 08	Sergeeva, Ksenia A., 05
Ivanov, Valery I., 06, 0D, 0Y	Shandarov, V., 0T
Ivanova, Galina D., 06, 0Y	Sharangovich, Sergey N., 0U, 0X
Kamenev, Oleg T., 0M	Shchipunov, Yury A., 03
Kamshilin, Alexei A., 0F	Shevlyagin, Alexander, 02
Karpets, Yury M., 0D	Shichalin, O. O., 0B
Khe, Vladimir K., 06	Shmirko, Konstantin, 0R
Khomyakov, V. V., 07	Shtarev, Dmitry S., 0A, 0S
Khon, H., 0O	Shtareva, Anna V., 0A
Kolchinskiy, Vlad A., 0M	Sidorov, N. V., 08, 09
Krikun, Vladimir A., 0Q	Sinebryukhov, Sergey L., 12
Krylov, Vladimir I., 06, 07	Sorokovikov, Valery N., 0P
Kulchin, Yuriy N., 03, 04, 0E, 0F, 0G, 0K, 0L, 0M, 0W, 0Z, 10, 11, 12	Sporyshev, M. S., 0I
	Stebliy, Maxim E., 0Z, 10

Subbotin, Evgeniy P., 0E, 0Z, 10, 11, 12
Syuy, Alexander V., 08, 09, 0A, 0S
Teplyakova, N. A., 09
Tkachenko, I. A., 0B
Tolstonogova, Yu. S., 0I, 0L
Tutov, M., 0H
Vinnik, D. S., 0B
Vitrik, Oleg B., 0K
Voznesenskiy, Sergey S., 05
Yatsko, Dmitrii S., 0Z, 10, 11
Zaikov, V. I., 0O
Zhuravlev, Yuri N., 0E

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The SPIE-supported 16th *Asia-Pacific Conference on Fundamental Problems of Opto- and Microelectronics* (APCOM 2017) was held in November 2017 in the heart of Pacific Asia – in the Taiwanese capital Taipei. Since 2000, the conference has been the venue for cutting-edge achievements in a variety of topics related to opto- and microelectronics. During the intervening years, the focus of the conference has shifted to fundamental and applied aspects of optics, photonics and nano-electronics and covers photonic communication, optical measuring systems, photonic sensors, as well as their application in life-sciences, bio-medicine, social welfare, industrial facilities, and structural health monitoring. The conference also covers novel materials and structures for optics and photonics, new principles, technologies and methods for optical information processing and imaging, as well as nano- and bio-photonics.

In the past, APCOM papers have been published as SPIE Proceedings (volumes 4513, 4357, 5129, 5851, 6595, and 10176); and now, with the publication of this SPIE volume, we are glad to have continued the long-established tradition.

Yuri N. Kulchin