



Index of Articles Published in 2020

ADDITIVE TECHNOLOGIES

- V. P. Biryukov, A. N. Prints, A. P. Savin,**
E. G. Gudushauri
Properties of Multicomponent Alloys
Obtained by Additive Laser Technologies .. № 1, p. 34
- V. L. Minaev, G. N. Vishnyakov,**
A. D. Ivanov, G. G. Levin
Methods for Controlling Geometric
Parameters and Internal Stresses of
Additive Technology Products № 1, p. 42

A RUNNING COMMENTARY OF PRODUCTION

- N. L. Istomina, L. V. Karyakina**
AVESTA: Features of the Assembly
Technology of Femtosecond Lasers № 4, p. 300

BIPHOTONICS

- Yu. N. Kulchin, D. O. Goltsova,**
E. P. Subbotin
Regulating Effect of Light on Plants № 2, p. 192
- V. N. Zelenkov, V. V. Latushkin,**
M. I. Ivanova, A. A. Lapin, V. V. Karpachev,
A. A. Kosobryukhov, P. A. Vernik,
S. V. Gavrilov
Effect of Pulsed Illumination on the
Germination of Seeds of Some Vegetable,
Oil-Bearing and Medicinal Plants № 5, p. 442
- O. V. Gradov, U. V. Zhulanov,**
P. U. Makaveev Optical Ultrastructural
Virometry and Its Limitations № 6, p. 542

BUSINESS PEOPLE

- I. N. Fomenko, S. G. Gorny**
We are Generating an Enlightened
Consumer № 1, p. 22

CONFERENCES, EXHIBITIONS, SEMINARS

- O. V. Kharchenko**
The XXVI International Symposium
“Atmospheric and Ocean Optics.
Atmospheric Physics” № 5, p. 438
- S. B. Odinokov**
HOLOEXPO 2020: Brief Release № 6, p. 524

FIBER OPTIC DEVICES & TECHNOLOGIES

- A. A. Kim, V. S. Luginya, M. A. Konyaev,**
A. E. Orlov, D. N. Vasiliev
Use of Fiber Optic Technologies to
Verify the Operational Parameters of
Meteorological Lidars № 1, p. 116

V. V. Grishachev

- Traffic Intercept in Optical Network:
Method of Optical Tunneling № 8, p. 680

FREESPACE OPTICAL COMMUNICATION

- M. Yu. Kernosov, S. N. Kuznetsov,**
B. I. Ognev, A. A. Parshin
Reduction of the Level of Errors in the
Transmission of High-Frequency Optical
Signals in a Turbulent Atmosphere Due
to the Use of Statistics of the Received
Signal Level № 5, p. 424

INDUSTRIAL POLICY

- N. L. Istomina, L. V. Karyakina,**
I. S. Shelemba
All-Russian Strategic Session on
the Development of Photonics as
a “CrossCutting” Technology of STI № 1, p. 12

LASER MEDICINE

- N. K. Zhizhin, Yu. Yu. Kolbas,**
Ev. V. Kuznetsov
Application of Lasers in Surgery № 3, p. 282

LASERS & LASER SYSTEMS

- A. A. Kolegov, E. G. Akulinin, E. A. Belov,**
A. V. Zagidulin, D. V. Kulakov, A. V. Galeev,
N. V. Burov, V. B. Romashova, I. A. Tsibizov,
A. A. Akimov, D. S. Svyazhina
LLS-YFLSM-1000-1 kW Single-Mode Fiber
Laser With High Radiation Quality № 1, p. 30
- V. P. Duraev, S. V. Medvedev,**
S. A. Voronchenko
Single-Frequency Ring Semiconductor
Lasers With a Fiber Cavity & Their
Application № 4, p. 308
- S. V. Yakovenko**
System for Recording Interferometer
Readings Error Associated with the
Temperature Change in Autonomous
Laser Meter of Pressure Fluctuations № 6, p. 532
- H. Gouraud, A. V. Eliseev, A. A. Borimova,**
D. S. Svyazina, N. V. Burov
Features of the ModBox FrontEnd Master
Source for generating Nanosecond Pulses ... № 7, p. 600
- K. N. Temnikova**
Laser Production and Application:
Topical Issues of Information Security
and Business Continuity № 7, p. 604



INDEX OF ARTICLES PUBLISHED IN 2020

G. I. Dolgikh, S. G. Dolgikh

- Laser Interference Systems Research on Tsunamigenic Earthquakes № 7, p. 616
A. V. Avdeev, A. S. Boreisho, I. A. Kiselev,
A. V. Morozov, A. E. Orlov
Supersonic Gas and Chemical Lasers: Technology Development № 8, p. 648
Yu. Yu. Kolbas, M. E. Grushin,
A. A. Medvedev
Using Zeeman Ring Laser to Measure Magnetic Field № 8, p. 664

MATERIALS & COATINGS

- N. A. Kulchitsky, A. V. Naumov,**
V. V. Startsev
Photonic Is a New Driver of Gallium Arsenide Market № 2, p. 138
D. V. Marusev
Super Absorbing Properties of Nickel-Phosphorus Alloy № 4, p. 368

METROLOGY AND CERTIFICATION

- O. A. Kryuchina, I. E. Sadovnikov**
Harmonization with European Union Standards: Issues, Problems, Solutions № 1, p. 56
A. V. Lukin, A. N. Melnikov
Basic Test Plates: Two New and Relevant Uses in Optical Technologies № 1, p. 68

METROLOGY AND METROLOGICAL EQUIPMENT

- O. S. Bolshakov, A. V. Kirsanov,**
V. V. Chernov
Spectral Analysis of Temporal Velocity Changes as an Approach to Determining the Properties of Positioning Systems № 1, p. 76

NEWS

- Photonic and Quantum Technologies at the Military-Technical Forum "Army 2020" № 5, p. 388

OPTICAL DEVICES & SYSTEMS

- I. P. Shishkin, A. P. Shkadarevich**
Television Lenses for Surveillance Systems № 1, p. 96
G. I. Greysukh, V. A. Danilov, E. G. Ezhov,
A. I. Antonov, B. A. Usievich
Diffraction Elements in Optical Systems of Middle and Double IR Range № 2, p. 160
D. V. Prokopova, S. P. Kotova
Phase Diffraction Optical Elements with Enhanced Efficiency for Nanoscopy № 2, p. 170

Y. V. Pichugina, A. S. Machikhin

- Development of Acousto-Optic Device for Manipulating Micro-Objects № 3, p. 254
I. P. Shishkin, A. P. Shkadarevich
Achromatized Lenses of Thermal Imagers № 4, p. 360
E. R. Muslimov, N. K. Pavlycheva,
I. A. Guskov
Concept of Composite Holographic Optical Elements № 7, p. 586

OPTICAL ELECTRONIC SYSTEMS & COMPLEXES

- V. V. Startsev, V. K. Popov**
Multispectral Fire Detection System by "Design Bureau "Astron" – Technology and Economics № 1, p. 106
M. E. Grushin, Yu. Yu. Kolbas,
A. A. Medvedev
A Method of Reducing the Vibrational Error of a Zeeman Laser Gyro Filled With a 50% Mixture of Neon Isotopes № 2, p. 150
A. A. Medvedev, M. E. Grushin
ZLG Sensors with one Gas Discharge Gap in Each Sensor Half: Correction of Zero Drift № 3, p. 226
D. V. Vasiliev, A. I. Laryushin
Mobile Navigation Complexes on Domestic Superior LEDs for Development of the Arctic № 4, p. 338
A. V. Medvedev, A. V. Grinkevich,
S. N. Knyazeva
Passive Rangefinders: from Optical Systems to Optoelectronic Ones № 4, p. 344
A. V. Medvedev, A. V. Grinkevich,
S. N. Knyazeva
Image Intensifier Tube or Television Matrix: Aspects of Application Efficiency № 5, p. 394
A. V. Samvelov, S. G. Yasev, V. V., Startsev,
A. S. Moskalenko, E. D. Dektereva,
O. V. Pakhomov
Dependence of Main Characteristics of Microcryogenic Stirling System for Cryostating of Photodetector Modules on The Mean Pressure Cycle № 8, p. 674

OPTICAL MEASUREMENTS

- C. Lefort, R. P. O'Connor, V. Blanquet,**
L. Magnol, H. Kano, V. Tombelain,
P. Leveque, V. Couderc and P. Leproux
Multicolour Multiphoton Microscopy Based on a Nanosecond Supercontinuum Laser Source № 1, p. 88



- M. V. Kazachek, T. V. Gordeychuk,
A. S. Pochinok**
Estimation of Sonoluminescence Temperature with the Ornstein Method .. № 3, p. 260
- E. N. Oparin, M. O. Zhukova,
V. G. Bulgakova, S. A. Pozdnyakova,
A. N. Tcypkin**
Study of Thin hBN/WS2 Films by Terahertz Time-Domain Spectroscopy № 3, p. 264
- M. M. Kugeiko, S. A. Lisenko**
Opto-Physical Measurements in Conditions of a Priori Uncertainty: Theoretical Aspects № 3, p. 270
- U. F. Mammadova**
Issues of Measuring the Moisture Content in the Surface Atmosphere Layer Using an External Emitter and a Photometer with LED Emitters in The Photodetector Mode № 6, p. 550
- M. M. Kugeiko, V. L. Kozlov, V. A. Firago,
N. L. Zgirovskaya**
Methods and Systems of Optical and Physical Measurements (in Conditions of a priori Uncertainty) № 7, p. 626
- V. P. Budak, A. V. Grimalio**
Statistical Lens Development when Taking into Account Wave Correlation of Randomly Uneven Surface № 8, p. 708
- OPTOELECTRONIC INSTRUMENTS & DEVICES**
- K. F. Latypov, M. Yu. Dolomarov**
Estimation of the Bandgap Width of Organic Semiconductors
Photoconductivity by Integral Parameters of Autocorrelational Functions № 2, p. 184
- N. A. Kulchitsky, A. V. Naumov,
V. V. Startsev**
Infrared Focal Plane Array Detectors: “Post Pandemic” Development Trends. Part I № 3, p. 234
- S. M. R. H. Hussein**
Features of the Interaction of Light with Graphene Nanostructures and Transition Metal Dichalcogenides № 3, p. 246
- N. A. Kulchitsky, A. V. Naumov,
V. V. Startsev**
Infrared Focal Plane Array Detectors: “Post Pandemic” Development Trends. Part II № 4, p. 320
- A. V. Samvelov, S. G. Yasev,
A. S. Moskalenko, V. V. Startsev,
A. Yu. Baranov, O. V. Pakhomov**
Domestic Microcryogenics: Microcryogenic Systems for Photo Detectors № 4, p. 332
- QUANTUM TECHNOLOGIES**
- V. M. Petrov, A. V. Shamrai, I. V. Il'ichev,
P. M. Agruzov, V. V. Lebedev,
N. D. Gerasimenko, V. S. Gerasimenko**
National Microwave Integrated Optical Modulators for Quantum Communications № 5, p. 414
- V. M. Petrov, A. V. Shamray, I. V. Ilyichev,
N. D. Gerasimenko, V. S. Gerasimenko,
P. M. Agruzov, V. V. Lebedev**
Generation of Optical Frequency Harmonics for Quantum Communication Systems at Side Frequencies № 7, p. 570
- S. A. Stepanenko**
Photonic Computer. Element Base № 8, p. 696
- TECHNOLOGIES AND TECHNOLOGY EQUIPMENT**
- V. P. Veiko, Yu. Yu. Karlagina,
V. V. Romanov, R. M. Yatsuk,
E. E. Egorova, E. A. Zernitskaya,
A. I. Yaremenko, G. N. Chernenko,
S. G. Gorny, G. V. Odintsova**
Laser Technology for Structuring the Surface of Dental Titanium Implants. Part 1 № 5, p. 462
- D. O. Chukhlantsev, V. P. Umnov,
V. V. Maltsev, D. A. Shipikhin**
Universal Highly Automated Laser Technological Complex Based on Multi-Beam Laser № 6, p. 482
- S. V. Kuryntsev, I. N. Shiganov**
Laser Welding of Dissimilar Metals № 6, p. 492
- G. V. Odintsova, Yu. Yu. Karlagina,
V. V. Romanov, R. M. Yatsuk,
E. E. Egorova, E. A. Zernitskaya,
A. I. Yaremenko, G. N. Chernenko,
S. G. Gorny, V. P. Veiko**
Laser Technology for Structuring the Surface of Dental Titanium Implants. Part 2 № 6, p. 510
- N. L. Istomina**
End-to-End Technologies: Changing the Structure of the Traditional Industry № 6, p. 520



ТЕХНОСФЕРА
РЕКЛАМНО-ИЗДАТЕЛЬСКИЙ ЦЕНТР

**100% ГАРАНТИЯ
ПОЛУЧЕНИЯ ВСЕХ НОМЕРОВ**



Стоимость 2200 р. за номер
Периодичность: 10 номеров в год
www.electronics.ru



Стоимость 1430 р. за номер
Периодичность: 8 номеров в год
www.photonics.su



Стоимость 1430 р. за номер
Периодичность: 6 номеров в год
www.j-analytics.ru

ПОДПИСКА НА ЖУРНАЛЫ

www.technosphera.ru



Стоимость 1056 р. за номер
Периодичность: 8 номеров в год
www.lastmile.su



Стоимость 1287 р. за номер
Периодичность: 8 номеров в год
www.nanoindustry.su



Стоимость 1716 р. за номер
Периодичность: 4 номера в год
www.stankoinstrument.su