

International Conference  
**Advanced Laser Technologies**



**ALT'15**

**The 23<sup>th</sup> Annual International Conference  
on Advanced Laser Technologies  
ALT'15**

Faro, Portugal  
September 7–11, 2015

***PROGRAM***

## **Contents**

Organizers and Sponsors	page 3
Program and Organizing Committees	page 4
ALT'15 General Time-Table	page 5
Program of September 7, 2015	page 6
Program of September 8, 2015	page 10
Program of September 9, 2015	page 13
Program of September 10, 2015	page 15
Program of September 11, 2015	page 18
Joint Poster Session, September 08, 2015	page 19
Key for Authors/Chairs	page 22

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## ALT'15 General Time Table

Sunday, September 06, 2015			
17:00–19:00	Registration		
Monday, September 07, 2015			
08:00–09:00	Registration		
09:00–09:45	Opening		
09:45–10:30	Plenary Session 1		
10:30–11:00	Coffee break		
	Room A	Room B	Room C
11:00–12:40	Laser–Matter Interaction 1	Laser Systems and Materials 1	THz Sources and Applications 1
12:40–14:00	Lunch		
14:00–16:00	Laser–Matter Interaction 2	Laser Systems and Materials 2	THz Sources and Applications 2
16:00–16:30	Coffee break		
16:30–18:00	Laser–Matter Interaction 3	Laser Systems and Materials 3	THz Sources and Applications 3
19:00	Welcome Party		
Tuesday, September 08, 2015			
09:00–09:45	Plenary Session 2		
09:45–10:30	Plenary Session 3		
10:30–11:00	Coffee break		
11:00–12:40	Laser–Matter Interaction 4	Sensors 1	Biophotonics 1
12:40–14:00	Lunch		
14:00–16:00	Laser–Matter Interaction 5	Laser Systems and Materials 4	Biophotonics 2
16:00–16:30	Coffee break		
16:30–18:30	Joint Poster Session		
Wednesday, September 09, 2015			
09:00–09:45	Plenary Session 4		
09:45–10:30	Plenary Session 5		
10:30–11:00	Coffee break		
11:00–12:40	Nonlinear Optics and Photonics 1	Biophotonics 3	Sensors 2
12:40–14:00	Lunch		
14:00–18:00	Excursions		
Thursday, September 10, 2015			
09:00–09:45	Plenary Session 6		
09:45–10:30	Plenary Session 7		
10:30–11:00	Coffee break		
	Room A	Room B	
11:00–12:40	Laser–Matter Interaction 6	Laser Diagnostics and Spectroscopy 1	
12:40–14:00	Lunch		
14:00–16:00	Laser–Matter Interaction 7	Laser Diagnostics and Spectroscopy 2	
16:00–16:30	Coffee break		
16:30–18:00	Laser–Matter Interaction 8	Laser Diagnostics and Spectroscopy 3	
19:00	Conference Dinner		
Friday, September 20, 2013			
09:00–10:30	Biophotonics 4	Optical Communication 1	
10:30–11:00	Coffee break		
11:00–11:50	Biophotonics 5		
12:00–12:15	Closing		

**Notations in the Program:** (B) Biophotonics, (D) Laser Diagnostics and Spectroscopy, (LM) Laser-Matter Interaction, (LS) Laser Systems, (NL) Nonlinear Optics and Photonics, (OC) Optical Communication, (S) Sensors, (TH) Terahertz Sources and Applications, (PI) Plenary talk, (I) Invited talk, (O) Oral talk, (P) Poster

# Monday, September 7, 2015

08:00–09:00 **Registration**

09:00–09:45 **Opening**

**Room A**

Welcoming remarks about International Year of Light and Light-Based Technologies. Carlos Fiolhais (Portugal)

Welcome address of the Rossotrudnichestvo mission in Lisbon. V.A. Luzgin (Russia)

Presentation of the Amplitude Technologies Company

09:45–10:30 **Plenary Session 1**

Chair: Paulo André (Portugal)

**Room A**

09:45–10:30 **PI-1** (Plenary) *Polarization and mode properties of fiber lasers and their applications.*  
Byoung Yoon Kim (Korea)

10:30–11:00 Coffee break

**Section LM: Laser–Matter Interaction**

**Room A**

11:00–12:40

**Session LM 1**

Chair: Koji Sugioka (Japan)

11:00–11:20 **LM-I-1** (Invited) *Laser damage of optical components in ultra-short regime for pw class lasers.*  
O. Uteza, C. Pasquier, R. Clady, N. Sanner, M. Sentis (France)

11:20–11:40 **LM-I-2** (Invited) *Diamond deposition in open air using laser resonant vibrational excitation of precursor molecules.* Yong Feng Lu (USA)

11:40–12:00 **LM-I-3** (Invited) *Control of agglomeration-fusion process of colloidal particles using laser processes in liquids.* Takeshi Tsuji, Isamai Takade, Masaharu Tsuji, Yoshie Ishimawa, Naoto Koshizaki (Japan)

12:00–12:20 **LM-I-4** (Invited) *Laser metal nanoparticles fragmentation processes.* I. Zvestovskaya (Russia)

12:20–12:40 **LM-I-5** (Invited) *From slow light to single-photon lasing and neutral-atom acceleration in a plasmonic crystal.* I. V. Melnikov (Russia)

12:40–14:00 Lunch

14:00–16:05

**Session LM 2**

Chair: Irina Zvestovskaya (Russia)

14:00–14:20 **LM-I-6** (Invited) *3D double wave-length lasers-induced reversible phase-structure modification inside photostructurable glass.* V.P. Veiko, M.M. Sergeev (Russia)

14:20–14:40 **LM-I-7** (Invited) *Tailoring properties in materials for energy by laser processing.* F.M. Costa, M.R. Soares, J. Rodrigues, N.M. Ferreira, Sh. Rasekh, R.G. Carvalho, T. Holz, N.F. Santos, A.J.S. Fernandes, M.A. Madre, J.C. Diez, F.M. Figueiredo, R.F. Silva, T. Monteiro, A. Sotelo (Portugal)

14:40–15:00 **LM-I-8** (Invited) *Femtosecond laser Bessel beam drilling of high-aspect-ratio microholes based on electrons dynamics control.* Xiaowei Li, Lan Jiang, Qiang Cao, Bo Xia, Xueliang Yan, Yang Liu, Yong Feng Lu (China)

15:00–15:20 **LM-I-9** (Invited) *Surface functionalization with femtosecond lasers.* Chunlei Guo (USA)

15:20–15:35 **LM-O-1** *Nanogratings generated in transparent glasses by femtosecond laser radiation.* V. Oliveira, S. Sharma, R. Vilar (Portugal)

15:35–15:50 **LM-O-2** *Laser-nanostructuring of dielectric surfaces assisted by laser-shaped chrome templates.* P. Lorenz, Ch. Grüner, M. Klöppe, M. Ehrhardt, L. Bayer, K. Zimmer (Germany)

15:50–16:05 **LM-O-3** *Optimization of a sub-picosecond K $\alpha$  X-ray source generated by ultra high intensity laser solid target interaction at 100 Hz.* Y. Azamoum, V. Tcheremiskine, R. Clady, L. Charmasson, N. Sanner, O. Uteza, M. Sentis (France)

16:00–16:30 Coffee break

16:30–18:00

Session LM 3

Chair: Marc Sentis (France)

16:30–16:50 **LM-I-10** (Invited) *Hybrid femtosecond laser 3D microprocessing consisting of subtractive and additive manufacturing.* Koji Sugioka, Jian Xu, Felix Sima, Dong Wu, Katsumi Midorikawa (Japan)

16:50–17:10 **LM-I-11** (Invited) *High-speed laser-induced forward transfer of inks.* P. Serra, A. Patrascioiu, C. Florian, J. M. Fernández-Pradas, J. L. Morenza (Spain)

17:10–17:30 **LM-I-12** (Invited) *High-efficient coherent Lyman- $\alpha$  resonance radiation source for ultra slow muon generation.* Norihito Saito, Yu Oishi, Koji Miyazaki, Kotaro Okamura, O. A. Louchev, Masahiko Iwasaki, Satoshi Wada (Japan)

17:30–17:45 **LM-O-4** *Laser-induced local profile transformation of multilayered graphene on a substrate.* V.I. Konov, V.D. Frolov, P.A. Pivovarov, E.V. Zavedeev, A.A. Khomich, A.N. Grigorenko (Russia)

17:45–18:00 **LM-O-5** *Bessel beam array formation using micro-structures fabricated via four-beam interference lithography.* E. Stankevičius, M. Garliauskas, G. Račiukaitis (Lithuania)

19:00 Welcome party

# Monday, September 7, 2015

**Section LS: Laser Systems and Materials**

**Room B**

**11:00–12:40 Session LS 1 Chair: Valentin Petrov (Germany)**

**11:00–11:20 LS-I-1** (Invited) *Q-Switched microchip lasers at 2  $\mu\text{m}$ .* X. Mateos, J. M. Serres, P. Loiko, K. Yumashev, V. Petrov, U. Griebner, M. Aguiló, F. Díaz (Spain, Belarus, Germany)

**11:20–11:40 LS-I-2** (Invited) *Spectroscopic and laser properties of  $\text{Cr}^{2+}$  and  $\text{Fe}^{2+}$  ions in ZnMnSe solid solution.* M.E. Doroshenko, H. Jelinkova, M. Jelinek, M. Nemeč, N.O. Kovalenko, A.S. Gerasimenko (Russia, Czech Republic, Ukraine)

**11:40–12:00 LS-I-3** (Invited) *Broadband applicability of nanocarbon-based saturable absorbers for ultrafast laser technology.* F. Rotermund (Korea)

**12:00–12:20 LS-I-4** (Invited) *Physics and engineering of cryogenically cooled slab RF discharge first-overtone CO laser.* A. Ionin, A. Kozlov, D. Sinitsyn (Russia)

**12:20–12:40 LS-I-5** (Invited) *Full characterization of the nonlinear optical properties of new crystals for the infrared parametric generation.* P. Segonds, B. Boulanger, E. Boursier, J. Debray, B. Ménaert, C. Félix, D. Jegouso, A. Pena, J. Zaccaro, V. Boutou (France)

12:40–14:00 Lunch

**14:00–16:00 Session LS 2 Chair: Fabian Rotermund (Korea)**

**14:00–14:20 LS-I-6** (Invited) *Influence of  $\text{Cr}^{3+}$  and  $\text{Ni}^{3+}$  doping on composition ( $x$ ), structure and structure-dependent properties of  $\text{Sr}_x\text{Ba}_{1-x}\text{Nb}_2\text{O}_6$ .* L.I. Ivleva, G.M. Kuz'micheva, P.A. Lykov, P.G. Zverev, V.V. Osiko (Russia)

**14:20–14:40 LS-I-7** (Invited) *Comparison of thermal effects in slab lasers with different configuration of diode pumping.* V.B. Tsvetkov, I.A. Shcherbakov (Russia)

**14:40–15:00 LS-I-8** (Invited) *High-efficiency backward stimulated polariton scattering in periodically poled ferroelectrics.* H. Jang, A. Zukauskas, C. Canalias, V. Pasiskevičius (Sweden)

**15:00–15:15 LS-O-1** *Performance analysis of thermally bonded Er,Yb:glass/Co:MALO microchip lasers.* J. Mlynczak, N. Belghachem, K. Kopczynski (Poland)

**15:15–15:30 LS-O-2** *Spectral gain function in Nd, Y-codoped  $\text{CaF}_2$  single crystals.* V.A. Kamynin, A.Ya. Karasik, V.A. Konyushkin, V.F. Seregin, A.I. Trikshev, V.B. Tsvetkov (Russia)

**15:30–15:45 LS-O-3** *Automatic system for gauge block calibration using optical interferometry.* Z. Buchta, M. Čížek, M. Šarbort, V. Hucl, J. Lazar, O. Číp (Czech Republic)

**15:45–16:00 LS-O-4** *Optical properties of Nd,Cr-codoped crystals for solar-pumped lasers.* Takayo Ogawa, Satoshi Wada, Mikio Higuchi (Japan)

16:00–16:30 Coffee break

**16:30–18:05 Session LS 3 Chair: Boris Zhdanov (USA)**

**16:30–16:50 LS-I-9** (Invited) *Magnetic optical activity in Bi-doped Mg-Al-Si glass.* O. Laguta, B. Denker, B. Galagan, S. Sverchkov, I. Razdobreev (France, Russia)

**16:50–17:10 LS-I-10** (Invited) *An effect of post-pulse generation in a Q-switched Nd:YLF laser.* A. Shaykin, K. Burdonov, E. Khazanov (Russia)

**17:10–17:30 LS-I-11** (Invited) *Superfocusing of high- $M^2$  laser diode beams and application to optical trapping of microscopic objects.* G.S. Sokolovskij, V. V. Dudelev, V. Melissinaki, S. N. Losev, K. K. Soboleva, A. G. Deryagin, V. I. Kuchinskii, M. Farsari, W. Sibbett, E. U. Rafailov (Russia, Greece, UK)

**17:30–17:50 LS-I-12** (Invited) *Controlled Raman amplification and generation of intense lasers with orbital angular momentum in plasmas.* J. Vieira, R.I. Trines, E.P. Alves, J. T. Mendonça, R. Bingham, L. O. Silva (Portugal)

**17:50–18:05 LS-O-5** *Spatiotemporal transformation of 3D optical pulses using phase-shifted Bragg grating.* L. Doskolovich, D. Bykov, N. Golovastikov (Russia)

19:00 Welcome Party



# Monday, September 7, 2015

**Section LS: THz Sources and Applications**

**Room C**

**11:00–12:40**

**Session TH 1**

*Chair: Eric Freysz (Portugal)*

**11:00–11:20 TH-I-1** (Invited) *Graphene-based nanostructures: plasmonics in the THz range.* Yu. V. Bludov, A. Ferreira, N. M. R. Peres, J. E. Santos, M. I. Vasilevskiy (Portugal, UK)

**11:20–11:40 TH-I-2** (Invited) *Resonant tunneling diode terahertz sources.* E. Wasige, J. Wang, A. Khalid, A. Kelly, D. Cumming, J. Figueiredo (UK, Portugal)

**11:40–12:00 TH-I-3** (Invited) *Compact laser sources for imaging, diagnostics and treatment in biomedicine.* E. U. Rafailov (UK)

**12:00–12:20 TH-I-4** (Invited) *Novel concepts of THz sources based on the structural light focusing effect in photonic crystals.* St. Yurchenko, K. Zaytsev (Russia)

**12:20–12:40 TH-I-5** (Invited) *THz photonic devices for industrial applications.* Kyung Hyun Park, Eui Su Lee, Namje Kim, Il-Min Lee, Kiwon Moon, Won-Hui Lee, Hyunsung Ko, Hyun-Soo Kim, Sang-Pil Han (Korea)

12:40–14:00 Lunch

**14:00–16:00**

**Session TH 2**

*Chair: Mikhail Vasilevskiy (Portugal)*

**14:00–14:20 TH-I-6** (Invited) *Simultaneous generation of x-ray and terahertz radiation produced by intense femtosecond laser pulses from atomic cluster plasma.* A.V. Balakin, A.V. Borodin, M.S. Dzhdzhoev, M. Evdokimov, M. Esaulkov, V.M. Gordienko, P. Solyankin, A.P. Shkurinov (Russia)

**14:20–14:40 TH-I-7** (Invited) *Novosibirsk FEL terahertz emission for biological application.* S.E. Peltek (Russia)

**14:40–15:00 TH-I-8** (Invited) *THz beam shaping.* M. Sypek (Poland)

**15:00–15:15 TH-O-1** *Emission of terahertz pulses from vanadium dioxide films undergoing metal-insulator phase transition.* M. Esaulkov, P. Solyankin, A. Makarevich, L. Parshina, O. Novodvorskii, A. Shkurinov, V. Makarov (Russia)

**15:15–15:30 TH-O-2** *Generation, characterization and application of terahertz “non-diffractive” Bessel beams with orbital angular momentum.* B.A. Knyazev, Yu.Yu. Choporova, G.N. Kulipanov, M.S. Mitkov, V.S. Pavelyev, V.A. Soifer, N.A. Vinokurov, B.O. Volodkin (Russia)

**15:30–15:45 TH-O-3** *Classical holography at the terahertz NovoFEL facility: recording and reconstruction techniques.* Yu.Yu. Choporova, B.A. Knyazev, M.S. Mitkov (Russia)

**15:45–16:00 TH-O-4** *Electrically controllable terahertz metamaterial based on VO<sub>2</sub> thin film.* Han-Cheol Ryu, Jun-Hwan Shin, Kyung Hyun Park (Korea)

16:00–16:30 Coffee break

**16:30–17:35**

**Session TH 3**

*Chair: Kirill Zaytsev (Russia)*

**16:30–16:50 TH-I-9** (Invited) *THz for amplitude and phase characterization of ultrashort laser pulses.* M. Cornet, J. Degert, E. Abraham, E. Freysz (France)

**16:50–17:05 TH-O-5** *Novel applications of THz pulsed spectroscopy: from early non-invasive diagnosis of dysplastic skin nevi to non-destructive evaluation of composite structures.* K. Zaytsev, S. Yurchenko (Russia)

**17:05–17:20 TH-O-6** *Spectral characteristics of compact singly-resonant intracavity OPO pumped by a semiconductor disk laser.* Yu. A. Morozov, V. I. Kozlovsky (Russia)

**17:20–17:35 TH-O-7** *Noninvasive blood glucose monitoring in the terahertz frequency range.* O. Cherkasova, M. M. Nazarov, E. E. Berlovskaya, A. A. Angeluts, A. M. Makurenkov, A. P. Shkurinov (Russia)

19:00–14:00 Welcome Party

## Tuesday, September 8, 2015

**09:00–10:30** **Plenary Session 2** Chair Boris Chichkov (Germany) **Room A**

**09:00–09:45** **PI-2** (Plenary) *Quantum dots: Genesis, the excitonic zoo, and nano-photonics.* D. H. Bimberg (Germany)

**09:45–10:30** **PI-3** (Plenary) *What is the photon nature?* O. N. Krokhin (Russia)

10:30–11:00 Coffee break

**Section LM: Laser–Matter Interaction** **Room A**

**11:00–12:40** **Session LM 4** Chair: Pere Serra (Portugal)

**11:00–11:20** **LM-I-13** (Invited) *Models of ultrashort laser modification of bulk transparent materials: Synergy of excitation/relaxation kinetics, thermodynamics and mechanics.* N.M. Bulgakova, V.P. Zhukov, Yu. Meshcheryakov (Czech Republic, Russia)

**11:20–11:40** **LM-I-14** (Invited) *Laser-induced semiconductor cluster structures on the solid surface; new physical principles to construct the hybrid elements for photonics.* S. Arakelian, V. Emel'yanov, S. Kutrovskaya, A. Kucherik, S. Zimin (Russia)

**11:40–12:00** **LM-I-15** (Invited) *Advanced oxide thin films growth by excimer laser assisted chemical solution process for future devices.* T. Tsuchiya, T. Nakajima, T. Nakamura, I. Yamaguch, H. Matsui (Japan)

**12:00–12:20** **LM-I-16** (Invited) *High throughput surface structuring with high power sub ps laser in synchronized mode.* B. Neuenschwander, B. Jaeggi, M. Zimmermann, V. Markovic, B. Resan, K. Weingarten, R. de Loor, L. Penning (Switzerland)

**12:20–12:40** **LM-I-17** (Invited) *High-order harmonic source based femtosecond core-level photoelectron spectroscopy for carrier transport dynamics on semiconductor surface.* Katsuya Oguri, Takano Tsunoi, Keiko Kato, Hidetoshi Nakano, Tadashi Nishikawa, Kouta Tateno, Tetsuomi Sogawa, Hideki Gotoh (Japan)

12:40–14:00 Lunch

**14:00–16:05** **Session LM 5** Chair: Yong Feng LU (USA)

**14:00–14:20** **LM-I-18** (Invited) *Laser surface texturing of Ti alloys for orthopaedic applications.* R. Vilar, A. Cunha, V. Oliveira, A. Almeida (Portugal)

**14:20–14:40** **LM-I-19** (Invited) *Ultrapure laser-synthesized nanomaterials for biomedical applications.* A.V. Kabashin (France)

**14:40–15:00** **LM-I-20** (Invited) *New results with pulsed laser technologies for transfer of organic and biological substances: Applications in biomedicine.* I.N. Mihailescu, C. Ristoscu (Romania)

**15:00–15:20** **LM-I-21** (Invited) *Additive manufacturing with laser generated nanoparticles.* B. Chichkov (Germany)

**15:20–15:35** **LM-O-6** *Picosecond laser micromachining of silicon for integrated circuit defect analysis.* A. Sikora, Th. Sarnet, M. Sentis (France)

**15:35–15:50** **LM-O-7** *Printing of aluminium microstructure using LIFT.* O. Fogel, M. Zenou, Z. Kotler (Israel)

**15:55–16:05** **LM-O-8** *Time resolved investigations of laser dielectric interaction mechanisms.* S. Guizard, A. Mouskeftaras, S. Klimentov, P. Palianov, L. Haahr-Lillevang, P. Balling, M. Garcia-Lechuga, J. Siegel, J. Solis (France, Switzerland, Russia, Denmark, Spain)

16:00–16:30 Coffee break

16:30–19:00 **Joint Poster Session**

## Tuesday, September 8, 2015

### Section S: Sensors

Room A

11:00–12:30

#### Session S 1

Chair: Paulo André (Portugal)

11:00–11:20 **S-I-1** (Invited) *High-speed wavelength-swept lasers and their applications to dynamic optical fiber sensors.* Min Yong Jeon, Myeong Ock Ko, Yong Seok Kwon (Korea)

11:20–11:40 **S-I-2** (Invited) *Perspective work on optical fibre sensors.* C. A. F. Marques, D. J. Webb (UK)

11:40–12:00 **S-I-3** (Invited) *Optical fiber sensors for blood pressure monitoring.* P. Antunes, C. Leitão, J. L. Pinto, J. M. Bastos, P. André (Portugal)

12:00–12:15 **S-O-1** *Laser printing and activation of biosensor surfaces.* M. Chatzipetrou, M. Massaouti, L. Scheres, A. Trilling, M. Smulders, H. Zuilhof, I. Zergioti (Greece)

12:15–12:30 **S-O-2** *Planar chiral nanostructures for biosensing.* Lingling Huang (China)

12:40–14:00 Lunch

### Section LS: Laser Systems and Materials

Room B

14:00–16:05

#### Session LS 4

Chairs: Valdas Pasiskevičius (Sweden), Efim Khazanov (Russia)

14:00–14:20 **LS-I-13** (Invited) *Extended performance of the L2I high intensity laser facility.* G. Figueira, J. Alves, L. Cardoso, J. M. Dias, M. Fajardo, N. Gomes, V. Hariton, T. Imran, J. Jiang, C. P. João, S. Kunzel, N. C. Lopes, H. Pires, F. Ruão, G. Williams (Portugal, Saudi Arabia)

14:20–14:40 **LS-I-14** (Invited) *Potassium-helium diode pumped alkali vapor laser.* B. Zhdanov, M.D. Rotondaro, R.J. Knize (USA)

14:40–15:00 **LS-I-15** (Invited) *Efficient TEM<sub>00</sub> laser action in a short-length heavily Yb-doped composite fiber with phosphate core and silica cladding.* O. N. Egorova, S. L. Semjonov, O. I. Medvedkov, M. S. Astapovich, A. G. Okhrimchuk, E. M. Dianov, B. I. Denker, B. I. Galagan, S. E. Sverchkov (Russia)

15:00–15:20 **LS-I-16** (Invited) *Temporal localized structures in VCSELs with delays.* J. Javaloyes (Spain)

15:20–15:35 **LS-O-6** *Laser beam profile shaping by means of acousto-optics.* S. Chizhikov, V. Molchanov, K. Yushkov (Russia)

15:35–15:50 **LS-O-7** *High repetition rate picosecond and nanosecond 1342 nm laser for micromachining and high order harmonics conversion.* A. M. Rodin, M. Grishin, A. Michailovas (Lithuania)

15:50–16:05 **LS-O-8** *Determination of the planetary boundary layer height by a scanning lidar.* M. F. Huseyinoglu, K.R. Allakhverdiev (Turkey, Azerbaijan)

16:00–16:30 Coffee break

16:30–19:00 Joint Poster Session

## Tuesday, September 8, 2015

**Section B: Biophotonics**

**Room C**

**11:00–12:40**

**Session B 1**

*Chair: Alexander Priezzhev (Russia)*

**11:00–11:20 B-I-1** (Invited) *Combining nonlinear laser scanning microscopy and bag-of-features image classification for automated disease diagnosis.* S. G. Stanciu, D. E. Tranca, G. A. Stanciu, R. Hristu, J.M. Bueno (Romania, Spain)

**11:20–11:40 B-I-2** (Invited) *Intensified laser diagnostics and therapy at tissue optical clearing.* V. Tuchin (Russia)

**11:40–12:00 B-I-3** (Invited) *Laser-based technologies in aesthetic medicine.* O. Panova, E. Sanches, N.N. Bulgakova, S. Daue, V. Ashmarov, A. Batomonkuev, S. Gamayunov, M. Kirillin, N. Shakhova (Russia)

**12:00–12:20 B-I-4** (Invited) *Synchronous fluorescence spectroscopy of human neoplasia—Advanced tool for endogenous fluorophores evaluation and cancer detection.* E. Borisova, Al. Zhelyazkova, Ts. Genova, N. Penkov, P. Troyanova, B. Vladimirov, L. Avramov (Bulgaria)

**12:20–12:40 B-I-5** (Invited) *Transcutaneous drug delivery with laser ablation.* E.A. Genina, A.N. Bashkatov, L.E. Dolotov, I.Yu. Yanina, E.A. Kolesnikova, G.S. Terentyuk, Yu.I. Svenskaya, D.A. Gorin, G.B. Sukhorukov, V.V. Tuchin (Russia, UK)

12:40–14:00 Lunch

**14:00–16:00**

**Session B 2**

*Chair: Valery Tuchin (Russia)*

**14:00–14:20 B-I-6** (Invited) *Optical coherence elastography of the eye.* K. Larin (USA)

**14:20–14:40 B-I-7** (Invited) *Laser modification of eye sclera structure as a novel approach for normalization of intraocular pressure.* E. Sobol, O. Baum, A. Bolshunov, O. Chomchik (Russia)

**14:40–15:00 B-I-8** (Invited) *New perspectives with light-responsive nano-gold and graphene in therapy and sensing.* R. Pini, P. Matteini, F. Ratto, F. Rossi, M. de Angelis, M. Banchelli, L. Cavigli, S. Centi, F. Tatini (Italy)

**15:00–15:15 B-O-1** *NIR-triggered photodynamic therapy of human cancer with vitamin B2 photosensitized by upconversion nanoparticles.* E.V. Khaydukov, K.E. Mironova, V.A. Semchishen, A.N. Generalova, A.V. Nechaev, D.A. Khochenkov, E.V. Stepanova, O. Lebedev, A.V. Zvyagin, S.M. Deev, V.Ya. Panchenko (Russia, France, Australia)

**15:15–15:30 B-O-2** *Laser-optic techniques for the assessment of erythrocyte hyperaggregation syndrome in diabetes mellitus.* A. Lugovtsov, A. Priezzhev, V. Ustinov, V. Koshelev, O. Fadyukova, M. Lin (Russia)

**15:30–15:45 B-O-3** *Assessment of fibrillar structures in blood plasma using the fluorescent probe thioflavin T.* T. Tikhonova, E. Shirshin, N. Rovnyagina, V. Fadeev, A. Priezzhev (Russia)

**15:45–16:00 B-O-4** *High-resolution noncitotoxic photopolymerization process of biocompatible compositions using IR light.* A. G. Savelyev, E. V. Khaydukov, V. A. Semchishen (Russia)

16:00–16:30 Coffee break

16:30–19:00 Joint Poster Session

## Wednesday, September 9, 2015

**09:00–10:30** **Plenary Session 3** Chair: Vitaly Konov (Russia) **Room A**

**09:00–09:45** **PI-4** (Plenary) *Intense laser pulses with a twist.* J. T. Mendonça (Portugal)

**09:45–10:30** **PI-5** (Plenary) *Laser processing of plasmonic materials and metamaterial structures.* A. Piqué, N. A. Charipar, H. Kim, E. Breckenfeld, R. C. Y. Auyeung, S. Mathews (USA)

10:30–11:00 Coffee break

**Section NL: Nonlinear Optics and Photonics** **Room A**

**11:00–12:45** **Session NL 1** Chair: Yuri Kulchin (Russia)

**11:00–11:20** **NL-I-1** (Invited) *Sum-frequency generation in the bulk of an isotropic gyrotropic medium by two-colored singular beam.* K. S. Grigoriev, V. A. Makarov, I. A. Perezhogin (Russia)

**11:20–11:40** **NL-I-2** (Invited) *Dissipative solitons in optical transmission lines and fiber lasers.* M. F. S. Ferreira (Portugal)

**11:40–12:00** **NL-I-3** (Invited) *Digital signal processing for coherent optical communication systems.* A. N. Pinto, F. P. Guiomar, S. B. Amado, C. S. Martins, S. Ziaie, N. J. Muga (Portugal)

**12:00–12:15** **NL-O-1** *Singular polarization patterns of the beam at double frequency generated by singularly polarized fundamental beam.* K. S. Grigoriev, V. A. Makarov, I. A. Perezhogin (Russia)

**12:15–12:30** **NL-O-2** *Ultrafast nonlinear effects in organic compounds and organic hybrid materials.* H. Gonçalves, L. Alves, E. de M. Gomes, R. Cr. Moutinho Ferreira, S. Costa, M. Raposo, M. Besley (Portugal)

**12:30–12:45** **NL-O-3** *Pulsating soliton solutions of the complex Ginzburg–Landau equation.* S. C. V. Latas, M. F. S. Ferreira (Portugal)

12:40–14:00 Lunch

14:00–18:00 Excursion

**Section B: Biophotonics** **Room B**

**11:00–12:40** **Session B 3** Chair: Roberto Pini (Italy)

**11:00–11:20** **B-I-9** (Invited) *Parametric extensions of optical coherence tomography can improve contrast in highly scattering tissues.* D. D. Sampson, L. Chin, P. Gong, P. Wijesinghe, S. Es'haghian, W. M. Allen, B.R. Klyen, B.F. Kennedy, R.A. McLaughlin (Australia)

**11:20–11:40** **B-I-10** (Invited) *Modular 3D microscopy for biomedicine.* H. Schneckenburger, S. Schickinger, V. Richter, P. Weber, M. Wagner, Th. Bruns (Germany)

**11:40–12:00** **B-I-11** (Invited) *Holographic beam shaping in light sheet microscopy.* T. Vettenburg, K. Dholakia (UK, Spain)

**12:00–12:20** **B-I-12** (Invited) *Alterations of optically measured characteristics of blood as bio-optical markers of diseases.* A. Priezzhev, A. Lugovtsov, S. Nikitin, Kisung Lee, T. Tikhonova, E. Shirshin, V. Koshelev, O. Fadyukova, M. Linn, Yu. Gurfinkel (Russia)

**12:20–12:40** **B-I-13** (Invited) *Investigation of the penetration into the skin in vivo/ex vivo using confocal Raman microscopy.* M. E. Darwin, S. M. Ascencio, C.-S. Choe, J. Lademann (Germany, Mexico, DPR Korea)

12:40–14:00 Lunch

14:00–18:00 Excursion

<b>Section S: Sensors</b>		<b>Room C</b>
<b>11:00–12:30</b>	<b>Session S 1</b>	<i>Chair: Paulo André (Portugal)</i>
<u>11:00–11:20</u>	<b>S-I-4</b> (Invited) Recent progress in the fiber sensing for petroleum industry. <u>M. J. Pontes</u> (Brasil)	
<u>11:20–11:40</u>	<b>S-I-5</b> (Invited) Recent advances in optical fiber systems. <u>Xin Xiang</u> (China)	
<u>11:40–12:00</u>	<b>S-I-6</b> (Invited) <i>Fibre loop mirror for sensing applications</i> . <u>O. Frazao</u> (Portugal)	
<u>12:00–12:15</u>	<b>S-O-3</b> <i>Fine spectral interference in chirped large-mode-area fiber Bragg gratings</i> . <u>R. Poozesh</u> , <u>V. Vatani</u> , <u>K. Hejaz</u> , <u>A. Roohforouz</u> , <u>A. Babazadeh</u> , <u>S.N.T. Jafari</u> , <u>R. R. Nasirabad</u> , <u>A. Heidariazar</u> , <u>M. Lafouti</u> , <u>K. Madanipour</u> (Iran)	
<u>12:15–12:30</u>	<b>S-O-4</b> <i>Catalytic and sensory properties of copper structures obtained by laser-induced deposition from solution</i> . <u>M. S. Panov</u> , <u>D. I. Gordeychuk</u> , <u>V. V. Mironov</u> , <u>I. I. Tumkin</u> , <u>A. S. Mereshchenko</u> (Russia)	
12:40–14:00 Lunch		
14:00–18:00 Excursion		

## Thursday, September 10, 2015

09:00–10:30 **Plenary Session 4** Chair: *Vadim Veiko (Russia)* Room A

09:00–09:45 **PI-6** (Plenary) *Ultrafast nonlinear optics in the mid-infrared.* [A. Zheltikov](#) (Russia)

09:45–10:30 **PI-7** (Plenary) *Advances in optical coherence tomography for imaging scattering tissues.*  
[M. Leahy](#), [H. Subhash](#), [R. Dsouza](#), [K. Neuhaus](#), [C. Wilson](#), [J. Hogan](#), [S. Alexandrov](#) (Ireland)

10:30–11:00 Coffee break

**Section D: Laser Diagnostics and Spectroscopy** Room A

11:00–12:40 **Session D 1** Chair: *Rinat Esenaliev (USA)*

11:00–11:20 **D-I-1** (Invited) *Raman scattering and time-resolved measurements: A review of recent applications with a nanosecond laser.* [P. Simon](#), [A. Canizarès](#), [M.R. Ammar](#), [G. Guimbretière](#), [Y. Tobon](#), [E.S. Fotso Gueutue](#), [M. Dutreilh-Colas](#), [O.A. Maslova](#), [N. Raimboux](#), [F. Duval](#), [Y.I. Yuzyuk](#), [R. Mohun](#), [L. Desgranges](#), [M. Magnin](#), [C. Jégou](#) (France, Russia)

11:20–11:40 **D-I-2** (Invited) *Nano-composite materials and their applications in energy harvesting.*  
[S. Christiansen](#), [G. Sarau](#), [S. Schmitt](#), [M. Latzel](#), [M. Bashouti](#), [M. Heilmann](#), [Ch. Tessarek](#), [S. Jäckle](#), [M. Kulmas](#), [Th. Feichtner](#), [K. Höflich](#), [B. Rech](#) (Germany)

11:40–12:00 **D-I-3** (Invited) *Optical characterization of nanostructures and thin films for solar cells applications.*  
[J. P. Leitão](#) (Portugal)

12:00–12:20 **D-I-4** (Invited) *Laser spectroscopy of QW-based low dimensional structures for optoelectronic applications.* [N. B. Sedrine](#), [J. Rodrigues](#), [L. Rino](#), [A. J. Neves](#), [M. C. Sequeira](#), [K. Lorenz](#), [E. Alves](#), [P. R. Edwards](#), [K. P. O'Donnell](#), [M. Bockowski](#), [O. Mauguin](#), [J.-M. Jancu](#), [J. C. Harmand](#), [P. Voisin](#), [M. R. Correia](#), [T. Monteiro](#) (Portugal, UK, Poland, France)

12:20–12:40 **D-I-5** (Invited) *Enhanced photon lifetime in silicon nanowire arrays and increased efficiency of optical processes in them.* [A. Efimova](#), [A. Eliseev](#), [L. Golovan](#), [M. Kholodov](#), [D. Presnov](#), [A. Tkachev](#), [S. Zaboltnov](#), [P. Kashkarov](#) (Russia)

12:40–14:00 Lunch

14:00–15:45 **Session D 2** Chair: *Vladimir Ochkin (Russia)*

14:00–14:20 **D-I-6** (Invited) *Measurement of  $^{13}\text{CO}_2/^{12}\text{CO}_2$  ratio in the natural air by means of diode laser spectrometer with external optical cavity.* [I.V. Nikolaev](#), [V.N. Ochkin](#), [S.N. Tskhai](#), [A.A. Zaytsev](#) (Russia)

14:20–14:40 **D-I-7** (Invited) *Self-organization and crystallization of dust plasma.* [V.I. Pustovoit](#) (Russia)

14:40–15:00 **D-I-8** (Invited) *Measurements of aerosol drug deposition using optical methods.* [M. Veres](#), [I. Rigó](#), [L. Himics](#), [T. Verebélyi](#), [S. Tóth](#), [M. Koós](#), [A. Nagy](#), [A. Kerekes](#), [D. Oszetzky](#), [Sz. Kugler](#), [A. Czitrovsky](#) (Hungary)

15:00–15:15 **D-O-1** *Spectroscopic analysis of humans breath in subjects with type 2 diabetes.* [M. Petrus](#), [A.-M. Bratu](#), [C. Popa](#), [S. Banita](#), [M. Patachia](#), [C. Matei](#), [D. C. Dumitras](#) (Romania)

15:15–15:30 **D-O-2** *Nanosecond optical parametric oscillator for biomedical applications in spectral range from 4.2 to 10.73  $\mu\text{m}$ .* [N. Yu. Kostyukova](#), [K. Zenov](#), [D. Kolker](#), [M. K. Starikova](#), [A. A. Karapuzikov](#) (Russia)

15:30–15:45 **D-O-3** *Trapping of a gas bubble in water by nanosecond laser beam.* [V. Khomich](#), [T. Malinskiy](#) (Russia)

16:00–16:30 Coffee break

**16:30–17:45**

**Session D 3**

*Chair: Vladislav Pustovoit (Russia)*

16:30–16:50 **D-I-9** (Invited) *Multi-wavelength, nanosecond, high-peak power laser diode system for photoacoustic monitoring, sensing, and imaging.* R. Esenaliev (USA)

16:50–17:10 **D-I-10** (Invited) *Non-invasive evaluation of breath biomarkers in oxidative stress using photoacoustic spectroscopy.* D.C. Dumitras, M. Petrus, A.M. Bratu, M. Patachia, S. Banita, C. Achim (Popa) (Romania)

17:10–17:30 **D-I-11** (Invited) *Quartz-enhanced photoacoustic trace gas technique: Recent advances and new developments.* V. Spagnolo, P. Patimisco, A. Sampaolo, G. Scamarcio, F. K. Tittel (Italy, USA)

17:30–17:45 **D-O-4** *Skin neoplasms analysis by laser emitted fluorescence in visible and NIR regions.* V.P. Zakharov, I.A. Bratchenko, D.N. Artemyev, Yu.A. Khristophorova, O.O. Myakinin, A.A. Moryatov, S.N. Kozlov (Russia)

19:00 Conference Dinner



# Thursday, September 10, 2015

**Section LM: Laser–Matter Interaction**

**Room A**

**11:00–12:40**

**Session LM 6**

*Chair: Andrei Kabashin (France)*

11:00–11:20 **LM-I-22** (Invited) *Blister-based laser-induced forward transfer of large molecules and nanoparticles for gas-phase analysis.* A. V. Bulgakov, N. Goodfriend, N. M. Bulgakova, S. V. Starinskiy, Yu. G. Shukhov, O. Nerushev, E. E.B. Campbell (Russia, Scotland)

11:20–11:40 **LM-I-23** (Invited) *Laser synthesis of nanometric 2D heterostructures of transitional metal oxides for photo sensors with high sensitivity.* S. Mulenko (Ukraine)

11:40–12:00 **LM-I-24** (Invited) *Laser assisted patterning of thin film solar cells.* Z. Geretovszky, A. Búzás (Hungary)

12:00–12:20 **LM-I-25** (Invited) *Laser precision drilling technologies with nanosecond and picosecond laser pulses.* Zhou Ming, Zhang Hongyu, Di Jianke (China)

12:20–12:40 **LM-I-26** *Giant resonances and other peculiarities of light scattering by particles with high refractive index.* M.I. Tribelsky (Russia)

12:40–14:00 Lunch

**14:00–15:55**

**Session LM 7**

*Chair: Alexei Zheltikov (Russia)*

14:00–14:20 **LM -I-27** (Invited) *Biomimetic technologies of new materials syntheses for photonics applications* Yu.N. Kulchin (Russia)

14:20–14:40 **LM -I-28** (Invited) *Laser nanolithography by thermoplasmonics.* Th. Lohmüller (Germany)

14:40–14:55 **LM-O-9** *Laser-induced synthesis of nanostructured carbon/metal-carbon clusters and complexes.* S. Arakelian, S. Kutrovskaya, A. Kucherik, A. Osipov, A. Povolotckaia, A. Povolotskiy, A. Manshina (Russia)

14:55–15:10 **LM-O-10** *Silicon nitride layer modification with UV femtosecond laser for PV applications.* D. Andrijauskas, V. Cyras, D. Horbaciauskas, K. Sulinskas, T. Lukstaraupis (Lithuania)

15:10–15:25 **LM-O-11** *Explosive crystallization of ferroelectric nanostructures by femtosecond laser.* A. Elshin, N. Firsova, E. Mishina, O. Zhigalina, V. Emelyanov (Russia)

15:25–15:40 **LM-O-12** *Laser-induced metal deposition in different temperature zones of the laser beam.* I.I. Tumkin, A.A. Smikhovskaia, D.I. Gordeychuk, L.S. Logunov, V.A. Kochemirovsky (Russia)

15:40–15:55 **LM-O-13** *Evaluation of melt flow velocity in the process of laser cutting of metals.* A.V. Dubrov, Yu. N. Zavalov, V. D. Dubrov (Russia)

16:00–16:30 Coffee break

**16:30–17:30**

**Session LM 8**

*Chair: Nadezhda Bulgakova (Russia)*

16:30–16:45 **LM-O-14** *Numerical simulation of solute evolution during laser cladding with nickel superalloy powder injection.* M.D. Khomenko, V.G. Niziev, F.Kh. Mirzade (Russia)

16:45–17:00 **LM-O-15** *Continual-atomistic simulation of metal targets under the action of double femtosecond laser pulses.* V.B. Fokin, P.R. Levashov, M.E. Povarnitsyn (Russia)

17:00–17:15 **LM-O-16** *Laser formation of relativistic subfemtosecond electron bunches from gas jets.* V. V. Kulagin, V. A. Cherepenin, V. N. Kornienko (Russia)

17:15–17:30 **LM-O-17** *Ablation of thin gold film by ultrashort laser pulse.* N. Inogamov, V. Zhakhovskiy, Yu. Petrov, V. Khokhlov, S. Anisimov (Russia)

19:00 Conference Dinner

## Friday, September 11, 2015

### Section B: Biophotonics

Room A

09:00–10:30

#### Session B 4

Chair: Igor Meglinski (Finland)

09:00–09:20 **B-I-14** (Invited) *Imaging technologies in stem cell research and tissue bioengineering.* E. Zagaynova, A. Meleshina, D. Kuznetsova, V. Dudenkova, A. Bystrova, E. Cherkasova, P. Timashev, V. Bagratashvili (Russia)

09:20–09:40 **B-I-15** (Invited) *Optical coherence tomography of reproductive and developmental events.* I. Larina (USA)

09:40–10:00 **B-I-16** (Invited) *Label free polarization microscopy for diagnosis applications.* Honghui He, Ye Wang, Jintao Chang, Hui Ma (China)

10:00–10:15 **B-O-5** *Silicon nanoparticles formed by means of laser ablation as potential biomarkers and contrasting agents.* S. V. Zabotnov, F. V. Kashaev, D. M. Zhigunov, I. A. Kamenskikh, P. A. Forsh, L. A. Golovan, P. D. Agrba, M. Yu. Kirillin, P. K. Kashkarov (Russia)

10:15–10:30 **B-O-6** *Sculpting light for new biophotonics applications.* J. Glückstad, D. Palima, M. Villangca, A. Bañas (Denmark)

10:30–11:00 Coffee break

11:00–11:50

#### Session B 5

Chair: Alexander Priezhev (Russia)

11:00–11:20 **B-I-17** (Invited) *Enabling polarization based technologies for cancer detection and tissue characterization.* I. Meglinski (Finland)

11:20–11:35 **B-O-7** *The effect of optical clearing in the optical properties of skeletal muscle.* L. Oliveira, M. I. Carvalho, E. Nogueira, V. V. Tuchin (Portugal, Russia)

11:35–11:50 **B-O-8** *Combinatorial matrix-assisted pulsed laser evaporation of organic materials for biomedical applications.* C. Ristoscu, F. Sima, E. Axente, L. Sima, N. Mihailescu, I. Negut, A. Visan, E. T. Oner, A. Bigi, I. N. Mihailescu (Romania, Turkey, Italy)

### Section OC: Optical Communication

Room B

09:00–10:10

#### OC 1

Chair: José Figueiredo (Portugal)

09:00–09:20 **OC-I-1** (Invited) *Performance assessment of fiber-wireless systems based on 1.55  $\mu\text{m}$  directly modulated VCSELs.* H. M. Salgado (Portugal)

09:20–09:40 **OC-I-2** (Invited) *Reconfigurable memories using temporal localized states of light in time-delayed neuromorphic photonic oscillators.* B. Romeira, J. M. L. Figueiredo, J. Javaloyes (Portugal, Netherland, Spain)

09:40–09:55 **OC-O-1** *Photobleaching phenomenon in bismuth-doped laser-active fiber.* S. V. Alyshev, S. V. Firstov, E. M. Dianov (Russia)

09:55–10:10 **OC-O-2** *Enabling the study of photons OAM applications for optical communications.* A. B. da Cunha, G. Figueira, P. André (Portugal)

12:00–12:15 Closing

# Tuesday, September 8, 2015

16:30-19:00 **Joint Poster Section**

Co-Chairs: Nikolai Sobolev (Portugal) and Paulo André (Portugal)

## Section B: Biophotonics

- B-P-1** *Laser plasmonic photothermal therapy of transplanted liver tumors.* A. Bucharskaya, G.N. Maslyakova, N.A. Navolokin, G.S. Terentyuk, A.N. Bashkatov, E.A. Genina, B.N. Khlebtsov, N.G. Khlebtsov, V. Tuchin (Russia)
- B-P-2** *Computer simulation of photon density normalized maximum movement in turbid media.* A.Yu. Potlov, S.V. Frolov, S.G. Proskurin (Russia)
- B-P-3** *OCA diffusion in biological tissues.* L. Oliveira, M. I. Carvalho, E. Nogueira, V. V. Tuchin (Portugal, Russia)
- B-P-4** *Nanoparticles effects on optical properties of biological tissues.* E. Perevedentseva, A. Karmenyan, O. Bibikova, A. Bykov, I. Skovorodkin, R. Prunskaitė-Hyyryläinen, S. Vainio, Chia-Liang Cheng, M. Kinnunen, I. Meglinski (Finland, Taiwan, Russia)
- B-P-5** *Particular aspects of laser-based procedures in ENT.* M. A. Shakhova, A. E. Meller, D. Sapunov, S. Gamayunov, Yu. A. Rylkin, A. V. Shakhov, M. Yu. Kirillin (Russia)
- B-P-6** *Multimodal optical coherence tomography for individualization cancer therapy.* N. Gladkova, M. Sirotkina, N. Buyanova, V. Elagin, M. Karabut, G. Gelikonov, L. Matveev, V. Zaitsev, F. Feldchtein, E. Zagaynova, A. Vitkin (Russia)
- B-P-7** *TiO<sub>2</sub> and ZnO—phthalocyanine nanoparticles for photodynamic inactivation of waste water bacterial strains.* E. Borisova, I. Angelov, V. Mantareva, V. Kussovski, L. Avramov (Bulgaria)
- B-P-8** *SHT-synthesis and application of biofunctional nanoparticles used high photo-thermal effect for laser heating of biotissues.* P. Yu. Gulyaev, M. K. Kotvanova, A. I. Omelchenko, E. N. Sobol (Russia)
- B-P-9** *In vivo assessment of components involved in signaling pathway responsible for non-photochemical quenching in cyanobacteria.* E. Shirshin, F. Kuzminov, E. Maksimov, V. Fadeev (Russia, USA)
- B-P-10** *Keratin fluorescence in ecological monitoring of house dust.* O. Proskurina, E. Shirshin (Russia)
- B-P-11** *SDS binding as a tool for indication of albumin conformational changes in human blood plasma.* N. Zhdanova, E. Shirshin, V. Fadeev, A. Priezzhev (Russia)

## Section LD: Laser Diagnostics and Spectroscopy

- D-P-1** *Dual-channel lock-in thermometry with thermographic phosphors.* A. Vetter, A. Hashemi, G. Jovicic, M. Batentschuk, Ch. Brabec (Germany)
- D-P-2** *The effects of air pollution and UV-B radiation on fruits using LPAS method.* S. Banita, M. Patachia, D. C. Dumitras, C. Achim, M. Bercu, A. M. Bratu, C. Matei (Romania)
- D-P-3** *New optical imaging system for intraoperative detection of tumors margins.* M. Patachia, S. Banita, C. Matei, M. Petrus, C. Achim, A. Bratu, D.C. Dumitras (Romania)
- D-P-4** *Resonant Raman spectroscopy for diagnostics of individual few-layer multi-walled carbon nanotubes.* D. I. Levshov, M. V. Avramenko, Y. I. Yuzyuk, Th. Michel, R. Arenal, M. Paillet, J.-L. Sauvajol (Russia, France, Spain)
- D-P-5** *Apparatus for diagnostics and treatment of fundus diseases with monitoring of the state of biological tissues and control of laser radiation dose.* S. S. Model, T. A. Savelieva, K. G. Linkov, V. B. Loschenov (Russia)
- D-P-6** *Photoluminescence properties of silicon oxide and silicon nitride multilayer structures with silicon nanocrystals.* D.V. Shuleiko, S.V. Zobotnov, D.M. Zhigunov, A. Zelenina, P.K. Kashkarov (Russia, Germany)
- D-P-7** *Optical spectroscopy diagnosis and photodynamic therapy on superficial skin malignancies.* E. Drakaki, C. Dessinioti, I. Stefanaki, I.A. Sianoudis, M. Makropoulou, A.A. Serafetinides, E. Christofidou, A.J. Stratigos, A.D. Katsambas, Ch. Antoniou (Greece)
- D-P-8** *Control of human serum albumin concentration using Raman spectroscopy setup.* D. N. Artemyev, V. P. Zakharov, J. A. Khristoforova, A. A. Lykina, V. N. Konyukhov, I. L. Davydkin, T. P. Kuzmina (Russia)
- D-P-9** *Experimental system for estimation of blood hemoglobin concentration in vivo.* V. P. Zakharov, I. L. Davydkin, V. N. Konyukhov, N. S. Kozlova, P. I. Bakhtinov, D. N. Artemyev, E. V. Molchkov (Russia)

- D-P-10** *Effects of varying refractive index on combined refractometry and displacement interferometry.* M. Holá, J. Lazar, M. Šarbort, Z. Buchta (Czech Republic)
- D-P-11** *Raman study of porous polymers prepared by radiation initiated polymerization.* M. Veres, L. Himics, I. Rigo, S. Tóth, M. Koós, T. Verebélyi, B. Beiler, Á. Sáfrány (Hungary, Austria)
- D-P-12** *Diagnostics of a polarization state in LiTaO<sub>3</sub> crystals by modulated IR laser radiation.* A. Bogomolov, A. Solnyskin, O. Sergeeva (Russia)

### Section LM: Laser–Matter Interaction

- LM-P-1** *Double wave-length lasers-induced reversible microchannels fabrication inside Foturan glass.* M.M. Sergeev, V.P. Veiko, E.I. Matuzin, E.Y. Tiguntseva (Russia)
- LM-P-2** *Increase of wear-resistance of coverings introduction of nanocarbides of refractory metals at laser cladding.* V.P. Birukov, V.N. Petrovskiy, M.F. Murzakov, O.N. Churlyayeva, N.M. Prokopova (Russia)
- LM-P-3** *Multilayer cladding using high-power fiber laser radiation.* V.N. Petrovskiy, D.P. Bykovskiy, P.S. Dzhumaev, V.I. Polskiy, N.M. Prokopova (Russia)
- LM-P-4** *Structural, electrical, and optical properties of the SnO<sub>2</sub>:Sb films prepared on inorganic and flexible organic substrate by the pulsed laser deposition method.* L.S. Parshina, O.A. Novodvorsky, O.D. Khramova, I.A. Petukhov, F.N. Putilin, V.A. Mikhalevskiy, A.V. Shorokhova (Russia)
- LM-P-5** *Diffusion-strain coupling and dispersion of surface waves in anisotropic laser-excited solids.* F. Kh. Mirzade (Russia)
- LM-P-6** *Structural and optical properties of silicon nanostructures obtained via laser ablation in gases.* F. V. Kashaev, T.P. Kaminskaya, P.A. Perminov, L.A. Golovan, S.V. Zobotnov (Russia)
- LM-P-7** *Laser cutting and drilling of sandwich structures “pyrolytic graphite–pyrolytic boron nitride–pyrolytic graphite”.* T. Sokolova, E. Surmenko, V. Shesterkin, D. Bessonov (Russia)
- LM-P-8** *Control of phase composition in the cadmium sulphide thin films for solar cells applications.* D.A. Zuev, I.A. Petukhov, O.A. Novodvorsky, A.V. Shorokhova, O.D. Khramova, F.N. Putilin, V.F. Kozlovskii, M.N. Rumyantseva, A.M. Gaskov (Russia)
- LM-P-9** *Developing of p-(InSb+MnSb)/n-InSb magnetic semiconductor heterojunction using PLD.* V.A. Mikhalevskiy, L. S. Parshina, O. D. Khramova, A. N. Aronov, S. F. Marenkin, B. A. Aronzon, O.A. Novodvorski (Russia)
- LM-P-10** *Transport and magnetic properties of Si<sub>1-x</sub>Mn<sub>x</sub> layers produced by the pulsed laser deposition method.* A.V. Shorokhova, O.A. Novodvorski, V.V. Rylkov, D.A. Zuev, S.N. Nikolaev, K.Yu. Chernoglazov (Russia)
- LM-P-11** *Non-thermal laser patterning of functional thin-films.* M. Ehrhardt, P. Lorenz, L. Bayer, K. Zimmer (Germany)
- LM-P-12** *PLD of perspective inorganic thin-film materials for the creation of memristors and spin valves.* O.A. Novodvorski, V.A. Mikhalevskiy, A.A. Lotin, A.V. Shorokhova, L.S. Parshina, D.A. Zuev (Russia)
- LM-P-13** *Influence of annealing on the magnetization, structural and electrical properties of alloy films GaSb–MnSb, obtained by PLD.* O.D. Khramova, O.A. Novodvorsky, A.V. Shorokhova, L.S. Parshina, V.A. Mikhalevskiy, S.F. Marenkin, I.V. Fedorchenko, B.A. Aronzon, A.B. Davydov, Ju.M. Chesnokov, A.L. Vasiliev (Russia)
- LM-P-14** *Multiwavelength laser excitation study of silicon-vacancy color center emission lineshape in nanocrystalline diamond films.* L. Himics, S. Tóth, M. Veres, P. Csíkvári, M. Koós (Hungary)
- LM-P-15** *Role of recombination processes during multipulse femtosecond irradiation of silicon.* I.V. Guk, G.D. Shandybina, E.B. Yakovlev (Russia)
- LM-P-16** *Invisible inks containing upconversion nanoparticles for anti-counterfeit applications.* V. Rocheva, K. Mironova, A. Generalova, A. Nechaev, V. Semchishen, E. Khaydukov (Russia)
- LM-P-17** *The study of phonon excitations in the crystal of ferroelectric semiconductors Sn<sub>2</sub>P<sub>2</sub>S<sub>6</sub> by time-resolved spectroscopy.* K. Brekhov, K. Grishunin, D. Afanasev, S. Semin, N. Sherstyuk, E. Mishina, A. Kimmel (Russia, Netherlands)
- LM-P-18** *First order phase transitions during laser ablation in the framework of continual and molecular dynamic descriptions.* V. I. Mazhukin, A. A. Samokhin, A. V. Shapranov, P. A. Pivovarov (Russia)
- LM-P-19** *Investigation of main mechanisms of disintegration of thin Al film by a nanosecond Gaussian laser pulse.* A. V. Mazhukin, V. I. Mazhukin, A. A. Samokhin, M. M. Demin, A. V. Shapranov (Russia)

**LM-P-20** Numerical modeling of 3D heat and mass transfer processes during laser cladding of metal powders. A. Dubrov, F.Kh. Mirzade, V.G. Niziev (Russia)

**LM-P-21** Laser-induced graphitic nanostructures generated inside diamond bulk. K. Ashikkalieva, T. Kononenko, E. Obratsova, E. Zavedeev, A. Khomich, V. Konov (Russia)

**LM-P-22** Pulsed laser ablation of titanium in liquid media: Influence of radiation parameters on nanoparticles synthesis. A. Aryshev, V. Veiko, A. Loginov, A. Samokhvalov (Russia)

**LM-P-23** Surface-enhanced Raman scattering (SERS) of gold-plated silicon nanostructures. I. Rigo, L. Himics, M. Koós, S. Tóth, M. Veres, P. Fürjes (Hungary)

**LM-P-24** Laser cancellation of Euler instability of buckling column. A. Omelchenko (Russia)

**LM-P-25** Laser-assisted forming of the bimetal thin films with changing optical and electrical properties. A. Antipov, S. Arakelian, T. Vartanyan, A. Istratov, S. Kutrovskaya, A. Kucherik, T. Itina (Russia, France)

### Section LS: Laser Systems and Materials

**LS-P-1** Electrohydrodynamic flow for gas laser circulation system. I.E. Rebrov, V.Yu. Khomich, S.V. Nebogatkin, V.A. Yamshchikov (Russia)

**LS-P-2** Optical properties of ZnO-based step quantum wells. A.A. Lotin, O.A. Novodvorsky, E.A. Cherebilo (Russia)

**LS-P-3** Optical characterization of electron irradiated lanthanum-gallium tantalate crystals. N. Kozlova, O. Buzanov, I. Didenko, A. Kozlova, E. Zabelina, N. Siminel (Russia)

**LS-P-4** Femtosecond tunable wavelength OPCA system frontend based on hybrid fiber-DPSS laser. R. Danilevičius, R. Budriūnas, A. Michailovas, N. Rusteika (Lithuania)

**LS-P-5** Optimized laser sintering of Ag nano-particle inks for RF components on flexible substrates. F. Zacharatos, N. Iliadis, J. Kanakis, P. Bakopoulos, H. Avramopoulos, I. Zergioti (Greece)

**LS-P-6** Q-switching of Yb:YGG, Yb:LuGG and Yb:CNGG lasers by a graphene saturable absorber. X. Mateos, J. M. Serres, P. Loiko, Haohai Yu, Huaijin Zhang, Junhai Liu, K. Yumashev, U. Griebner, V. Petrov, M. Aguiló, Fr. Díaz (Spain, Germany, Belarus, China)

### Section NL: Nonlinear Optics and Photonics

**NL-P-1** Nonlinear absorption in hybrid metal/chromophore systems. A. Zasedatelev, T. Dubinina, V. Krasovskii, L. Tomilova, A. Chistyakov (Russia)

**NL-P-2** Fabrication and optical properties of thin films with sol gel derived di-ureasils doped with Disperse Red 1. C. Vicente, L. Fu, L. D. Carlos, P. S. André, R. A. S. Ferreira (Portugal)

### Section OC: Optical Communication

**OC-P-1** Energy aware performance for next-generation flex-grid vs fixed-grid optical network. N. S. Gouveia, M. Henriques, P. Pinho (Portugal)

### Section S: Sensors

**S-P-1** Verification of optical frequency references quality—A way to efficient laser standards. J. Hrabina, M. Šarbort, M. Zucco, O. Acef, E. Chea, F. Du-Burck, M. Holá, J. Oulehla, J. Lazar, O. Čip (Czech Republic, Italy, France)

**S-P-2** High quality LPG fabrication using CO<sub>2</sub> laser and specially designed electromechanical system. P. Simões, P. Lopes (Portugal)

**S-P-3** Optimization of signal to noise ratio for an underwater laser range finder. F. Almabouada, K.E. Aiadi, D. Louhibi (Algeria)

**S-P-4** Relative humidity sensing using micro-cavities produced by the catastrophic fuse effect. N. Alberto, C. Tavares, F. Domingues, S. Correia, P. Antunes, J. L. Pinto, R.A.S. Ferreira, P.S. André (Portugal)

**S-P-5** High temperatures (> 1000 °C) monitoring during the sintering process in microwaves oven using RFBGs. D. Pereira, T. Santos, R. Nogueira, L. C. Costa, N. Alberto (Portugal)

**KEY FOR AUTHORS/CHAIRS**

<i>Name</i>	<i>Number</i>	<i>Page</i>
Abraham E.	TH-I-9	9
Acef O.	S-P-1	21
Achim (Popa) C.	D-I-11, D-P-2, D-P-3	16, 19
Afanasev D.	LM-P-17	20
Agrba P.D.	B-O-5	18
Aguiló M.	LS-I-1, LS-P-6	8, 21
Aiadi K.E.	S-P-3	21
Alberto N.	S-P-4, S-P-5	21
Alexandrov S.	PI-7	15
Allakhverdiev K.R.	LS-O-8	11
Allen W.M.	B-I-9	13
Almabouada F.	S-P-3	21
Almeida A.	LM-I-18	10
Alves E.	LS-I-12, D-I-4	8, 15
Alves J.	LS-I-13	11
Alves L.	NL-O-2	13
Alyshev S.V.	OC-O-1	18
Amado S.B.	NL-I-3	13
Ammar M.R.	D-I-1	15
André P.	S-I-3, OC-O-2, NL-P-2, S-P-4	11,18,21,6,14, 19
Andrijauskas D.	LM-O-10	17
Angelis M.	B-I-8	12
Angelov I.	B-P-7	19
Angeluts A.A.	TH-O-7	9
Anisimov S.	LM-O-17	17
Antipov A.	LM-P-25	21
Antoniou Ch.	D-P-7	19
Antunes P.	S-I-3, S-P-4	11, 21
Arakelian S.	LM-I-14, LM-O-9, LM-P-25	10, 17, 21
Arenal R.A.	D-P-4	19
Aronov A.N.	LM-P-9	20
Aronzon B.A.	LM-P-9, LM-P-13	20
Artemyev D.	D-O-4, D-P-8, D-P-9	16, 19
Aryshev A.	LM-P-22	21
Ascencio S.M.	B-I-13	13
Ashikkalieva K.	LM-P-21	21
Ashmarov V.	B-I-3	12
Astapovich M.S.	LS-I-15	11
Auyeung R. C. Y.	PI-5	13
Avramenko V.	D-P-4	19
Avramopoulos H.	LS-P-5	21
Avramov L.	B-I-4, B-P-7	12, 19
Axente E.	B-O-8	18
Azamoum Y.	LM-O-3	6
Babazadeh A.	S-O-3	14
Bacopoulos P.	LS-P-5	21
Bagratashvili V.	B-I-14	18
Bakhtinov P.I.	D-P-9	19
Balakin A.V.	TH-I-6	9

<i>Name</i>	<i>Number</i>	<i>Page</i>
Balling P.	LM-O-8	10
Bañas A.	B-O-6	18
Banchelli M.	B-I-8	12
Banita S.	D-I-10; D-O-1; D-P-2, 3	16; 15; 19
Bashkatov A.N.	B-I-5, B-P-1	12, 19
Bashouti M.	D-I-2	15
Bastos J.M.	S-I-3	11
Batentschuk M.	D-P-1	19
Batomonkuev A.	B-I-3	12
Baum O.	B-I-7	12
Bayer L.	LM-O-2, LM-P-11	6, 20
Beiler B.	D-P-11	20
Belghachem N.	LS-O-1	8
Bercu M.	D-P-2	19
Berlovskaya E.E.	TH-O-7	9
Besley M.	NL-O-2	13
Bessonov D.	LM-P-7	20
Bibikova O.	B-P-4	19
Bigi A.	B-O-8	18
Bimberg D.	PI-2	10
Bingham R.	LS-I-12	8
Birukov V.P.	LM-P-2	20
Bludov Yu.V.	TH-I-1	9
Bo Xia	LM-I-8	6
Bockowski M.	D-I-4	15
Bogomolov A.	D-P-12	20
Bolshunov A.	B-I-7	12
Borisova E.	B-I-4, B-P-7	12, 19
Borodin A.V.	TH-I-6	9
Boulanger B.	LS-I-5	8
Boursier E.	LS-I-5	8
Boutou V.	LS-I-5	8
Brabec Ch.	D-P-1	19
Bratchenko I.	D-O-4	16
Bratu A.-M.	D-I-10; D-O-1; D-P-2, 3	15; 16; 19
Breckenfeld E.	PI-5	13
Brekhov K.	LM-P-17	20
Bruns Th.	B-I-10	13
Bucharskaya A.	B-P-1	19
Buchta Z.	LS-O-3, D-P-10	8, 20
Budriūnas R.	LS-P-4	21
Bueno J.M.	B-I-1	12
Bulgakov A.V.	LM-I-22	17
Bulgakova N.M.	LM-I-13, LM-I-22	10, 17
Bulgakova N.N.	B-I-3	12
Burck F.D.	S-P-1	21
Burdonov K.	LS-I-10	8
Buyanova N.	B-P-6	19
Buzanov O.	LS-P-3	21
Búzás A.	LM-I-24	17
Bykov A.	B-P-4	19

<i>Name</i>	<i>Number</i>	<i>Page</i>
Bykov D.	LS-O-5	8
Bykovskiy D.P.	LM-P-3	20
Byoung Yoon Kim	PI-1	6
Bystrova A.	B-I-14	18
Campbell E.E.B.	LM-I-22	17
Canalias C.	LS-I-8	8
Canizarès A.	D-I-1	15
Carlos L.D.	NL-P-2	21
Carvalho M.I.	B-O-7, B-P-3	18, 19
Carvalho R.G.	LM-I-7	6
Cavigli L.	B-I-8	12
Centi S.	B-I-8	12
Charipar N. A.	PI-5	13
Charmasson L.	LM-O-3	6
Chatzipetrou M.	S-O-1	11
Chea E.	S-P-1	21
Cherebilo E.A.	LS-P-2	21
Cherepenin V.A.	LM-O-16	17
Cherkasova E.	B-I-14	18
Cherkasova O.	TH-O-7	9
Chernoglazov K.Yu.	LM-P-10	20
Chesnokov Ju.M.	LM-P-13	20
Chia-Liang Cheng	B-P-4	19
Chichkov B.	LM-I-21	10
Chin L.	B-I-9	13
Chistyakov A.	NL-P-1	21
Chizhikov S.	LS-O-6	11
Choe C.-S.	B-I-13	13
Chomchik O.	B-I-7	12
Choporova Yu.Yu.	TH-O-2, TH-O-3	9
Christiansen S.	D-I-2	15
Christofidou E.	D-P-7	19
Chunlei Guo	LM-I-9	6
Churlyayeva O.N.	LM-P-2	20
Čip O.	LS-O-3, S-P-1	8, 21
Čížek M.	LS-O-3	8
Clady R.	LM-I-1, LM-O-3	6
Cong Wang	LM-I-4	6
Cornet M.	TH-I-9	9
Correia M.R.	D-I-4	15
Correia S.	S-P-4	21
Costa F.M.	LM-I-7	6
Costa L.C.	S-P-5	21
Costa S.	NL-O-2	13
Csíkvári P.	LM-P-14	20
Cumming D.	TH-I-2	9
Cunha A.D. da	LM-I-18, OC-O-2	10, 18
Cyras V.	LM-O-10	17
Czitrovsky A.	D-I-8	15
Danilevičius R.	LS-P-4	21
Darvin M.	B-I-13	13

<i>Name</i>	<i>Number</i>	<i>Page</i>
Daue S.	B-I-3	12
Davydkin I.L.	D-P-8, D-P-9	19
Davydov A.B.	LM-P-13	20
Debray J.	LS-I-5	8
Deev S.M.	B-O-1	12
Degert J.	TH-I-9	9
Demin M.M.	LM-P-19	20
Denker B.	LS-I-9, LS-I-15	8, 11
Deryagin A.G.	LS-I-11	8
Desgranges L.	D-I-1	15
Dessinioti C.	D-P-7	19
Dholakia K.	B-I-11	13
Di Jianke	LM-I-25	17
Dianov E.M.	LS-I-15, OC-O-1	11, 18
Dias João M.	LS-I-13	11
Díaz F.	LS-I-1, LS-P-6	8, 21
Didenko I.	LS-P-3	21
Diez J.C.	LM-I-7	6
Dolotov L.E.	B-I-5	12
Dong Wu	LM-I-10	7
Doroshenko M.E.	LS-I-2	8
Doskolovich L.	LS-O-5	8
Drakaki E.	D-P-7	19
Dsouza R.	PI-7	15
Dubinina T.	NL-P-1	21
Dubrov A.	LM-O-13, LM-P-20	17, 21
Dubrov V.	LM-O-13	17
Dudelev V.V.	LS-I-11	8
Dudenkova V.	B-I-14	18
Dumitras D.C.	D-I-10; D-O-1; D-P-2, 3	15; 16; 19
Dutreilh-Colas M.	D-I-1	15
Duval F.	D-I-1	15
Dzhidzhoev M.S.	TH-I-6	9
Dzhumaev P.S.	LM-P-3	20
Edwards P.R.	D-I-4	15
Efimova A.	D-I-5	15
Egorova O.N.	LS-I-15	11
Ehrhardt M.	LM-O-2, LM-P-11	6, 20
Elagin V.	B-P-6	19
Eliseev A.	D-I-5	15
Elshin A.	LM-O-11	17
Emel'yanov V.	LM-I-14, LM-O-11	10, 17
Es'haghian S.	B-I-9	13
Esaulkov M.	TH-I-6, TH-O-1	9
Esenaliev R.	D-I-9	16, 15
Eui Su Lee	TH-I-5	9
Evdokimov M.	TH-I-6	9
Fadeev F.	B-P-11	19
Fadeev V.	B-O-3, B-P-9	12, 19
Fadyukova O.	B-I-12, B-O-2	12, 13
Fajardo M.	LS-I-13	11

<i>Name</i>	<i>Number</i>	<i>Page</i>
Farsari M.	LS-I-11	8
Fedorchenko I.V.	LM-P-13	20
Feichtner Th.	D-I-2	15
Feldchtein F.	B-P-6	19
Felix C.	LS-I-5	8
Felix Sima	LM-I-10	7
Fernandes A.J.S.	LM-I-7	6
Fernández-Pradas J.M.	LM-I-11	7
Ferreira A.	TH-I-1	9
Ferreira Mário F.S.	NL-I-2, NL-O-3	13
Ferreira N.M.	LM-I-7	6
Ferreira R.A.S.	NL-P-2, S-P-4	21
Ferreira R.C.M.	NL-O-2	13
Figueira G.	LS-I-13, OC-O-2	11, 18
Figueiredo F.M.	LM-I-7	6, 18
Figueiredo J.	TH-I-2, OC-I-2	9, 18
Firsova N.	LM-O-11	17
Firstov S.V.	OC-O-1	18
Florian C.	LM-I-11	7
Fogel O.	LM-O-7	10
Fokin V.B.	LM-O-15	17
Forsh P.A.	B-O-5	18
Fotso Gueutue E.S.	D-I-1	15
Frazaó O.	S-I-6	14
Freysz E.	TH-I-9	9
Frolov S.V.	B-P-2	19
Frolov V.D.	LM-O-4	7
Fu L.	NL-P-2	21
Fürjes P.	LM-P-23	21
<b>Galagan B.</b>	<b>LS-I-9, LS-I-15</b>	<b>8, 11</b>
Gamayunov S.	B-I-3, B-P-5	12, 19
Garcia-Lechuga M.	LM-O-8	10
Garliauskas M.	LM-O-5	7
Gaskov A.M.	LM-P-8	20
Gelikonov G.	B-P-6	19
Generalova A.N.	B-O-1, LM-P-16	12, 20
Genina E.	B-I-5, B-P-1	12, 19
Genova Ts.	B-I-4	12
Gerasimenko A.S.	LS-I-2	8
Geretovszky Z.	LM-I-24	17
Gładkova N.	B-P-6	19
Glückstad J.	B-O-6	18
Golovan L.	D-I-5, B-O-5, LM-P-6	15, 18, 20
Golovastikov N.	LS-O-5	8
Gomes E. de M.	NL-O-2	13
Gomes N.	LS-I-13	11
Gonçalves H.	NL-O-2	13
Gong P.	B-I-9	13
Goodfriend N.	LM-I-22	17
Gordeychuk D.I.	LM-O-12, S-O-4	17, 14
Gordienko V.M.	TH-I-6	9
Gorin D.A.	B-I-5	12

<i>Name</i>	<i>Number</i>	<i>Page</i>
Gouveia N.S.	OC-P-1	21
Griebner U.	LS-I-1, LS-P-6	8, 21
Grigorenko A.N.	LM-O-4	7
Grigoriev K.S.	NL-I-1, NL-O-1	13
Grishin M.	LS-O-7	11
Grishunin K.	LM-P-17	20
Grüner Ch.	LM-O-2	6
Guimbretiére G.	D-I-1	15
Guiomar F.P.	NL-I-3	13
Guizard S.	LM-O-8	10
Guk I.V.	LM-P-15	20
Gulyaev P.Yu.	B-P-8	19
Gurfinkel Yu.	B-I-12	13
<b>Haahr-Lillevang L.</b>	<b>LM-O-8</b>	<b>10</b>
Han-Cheol Ryu	TH-O-4	9
Haohai Yu	LS-P-6	21
Hariton V.	LS-I-13	11
Harmand J.C.	D-I-4	15
Hashemi A.	D-P-1	19
Heidariazar A.	S-O-3	14
Heilmann M.	D-I-2	15
Hejaz K.	S-O-3	14
Henriques M.	OC-P-1	21
Hideki Gotoh	LM-I-17	10
Hidetoshi Nakano	LM-I-17	10
Himics L.	D-I-8; D-P-11; LM-P-14, 23	15; 20; 21
Höflich K.	D-I-2	15
Hogan J.	PI-7	15
Holá M.	D-P-10, S-P-1	20, 21
Holz T.	LM-I-7	6
Honghui He	B-I-16	18
Horbaciauskas D.	LM-O-10	17
Hrabina J.	S-P-1	21
Hristu R.	B-I-1	12
Huaijin Zhang	LS-P-6	21
Hucl V.	LS-O-3	8
Hui Ma	B-I-16	18
Huseyinoglu M.F.	LS-O-8	11
Hyun-Soo Kim	TH-I-5	9
Hyunsung Ko	TH-I-5	9
<b>Iliadis N.</b>	<b>LS-P-5</b>	<b>21</b>
Il-Min Lee	TH-I-5	9
Imran Tayyab	LS-I-13	11
Inogamov N.	LM-O-17	17
Ionin A.	LS-I-4	8
Isamai Takade	LM-I-3	6
Istratov A.	LM-P-25	21
Itina T.	LM-P-25	21
Ivleva L.I.	LS-I-6	8
<b>Jäckle S.</b>	<b>D-I-2</b>	<b>15</b>



<i>Name</i>	<i>Number</i>	<i>Page</i>
Jaeggi B.	LM-I-16	10
Jafari S.N.T.	S-O-3	14
Jancu J.-M.	D-I-4	15
Jang H.	LS-I-8	8
Javaloyes J.	LS-I-16, OC-I-2	11, 18
Jégou C.	D-I-1	15
Jegouso D.	LS-I-5	8
Jelinek M.	LS-I-2	8
Jelinkova H.	LS-I-2	8
Jian Xu	LM-I-10	7
Jiang Jiasheng	LS-I-13	11
Jintao Chang	B-I-16	18
João Celso P.	LS-I-13	11
Jovicic G.	D-P-1	19
Junhai Liu	LS-P-6	21
Jun-Hwan Shin	TH-O-4	9
Kabashin A.V.	LM-I-19	10, 17
Kamenskikh I.A.	B-O-5	18
Kaminskaya T.P.	LM-P-6	20
Kamynin V.A.	LS-O-2	8
Kanakis J.	LS-P-5	21
Karabut M.	B-P-6	19
Karapuzikov A.A.	D-O-2, B-P-12	15, 19
Karasik A.Ya.	LS-O-2	8
Karmenyan A.	B-P-4	19
Kashaev F.V.	B-O-5, LM-P-6	18, 20
Kashkarov P.	D-I-5, B-O-5, D-P-6	15, 18, 19
Katsambas A.D.	D-P-7	19
Katsumi Midorikawa	LM-I-10	7
Katsuya Oguri	LM-I-17	10
Keiko Kato	LM-I-17	10
Kelly A.	TH-I-2	9
Kennedy B.F.	B-I-	13
Kerekes A.	D-I-8	15
Khalid A.	TH-I-2	9
Khaydukov E.V.	B-O-1, B-O-4, LM-P-16	12, 20
Khazanov E.	LS-I-10	8, 11
Khlebtsov B.N.	B-P-1	19
Khlebtsov N.G.	B-P-1	19
Khochenkov D.A.	B-O-1	12
Khokhlov V.	LM-O-17	17
Kholodov M.	D-I-5	15
Khomenko M.D.	LM-O-14	17
Khomich A.A.	LM-O-4, LM-P-21	7, 21
Khomich V.	D-O-3, LS-P-1	15, 21
Khramova O.D.	LM-P-4, 8, 9, 13	20
Khristoforova J.A.	D-P-8	19
Khristophorova J.	D-O-4	16
Kim H.	PI-5	13
Kimel A.	LM-P-17	20
Kinnunen M.	B-P-4	19
Kirillin M.	B-I-3, B-O-5, B-P-5	12, 18, 19

<i>Name</i>	<i>Number</i>	<i>Page</i>
Kisung Lee	B-I-12	13
Kiwon Moon	TH-I-5	9
Klimentov S.	LM-O-8	10
Klöppel M.	LM-O-2	6
Klyen B.R.	B-I-9	13
Knize R.J.	LS-I-14	11
Knyazev B.	TH-O-2, TH-O-3	9
Kochemirovsky V.	LM-O-12	17
Koji Miyazaki	LM-I-12	7
Koji Sugioka	LM-I-10	7, 6
Kolesnikova E.A.	B-I-5	12
Kolker D.	D-O-2, B-P-12	15, 19
Kononenko T.	LM-P-21	21
Konov V.I.	LM-O-4, LM-P-21	7, 21, 13
Konyukhov V.N.	D-P-8	19
Konyukhov V.N.	D-P-9	19
Konyushkin V.A.	LS-O-2	8
Koós M.	D-I-8; D-P-11; LM-P-14, 23	15; 20; 21
Kopczynski K.	LS-O-1	8
Kornienko V.N.	LM-O-16	17
Koshelev V.	B-I-12, B-O-2	13, 12
Kostyukova N.	B-P-12	19
Kostyukova N.Yu.	D-O-2	15
Kotaro Okamura	LM-I-12	7
Kotler Z.	LM-O-7	10
Kotvanova M.K.	B-P-8	19
Kouta Tateno	LM-I-17	10
Kovalenko N.O.	LS-I-2	8
Kozlov A.	LS-I-4	8
Kozlov S.	D-O-4	16
Kozlova A.	LS-P-3	21
Kozlova N.	LS-P-3, D-P-9	21, 19
Kozlovskii V.F.	LM-P-8	20
Kozlovsky V.I.	TH-O-6	9
Krasovskii V.	NL-P-1	21
Krokhin O.	PI-3	10
Kucherik A.	LM-I-14, LM-O-9, LM-P-25	10, 17, 21
Kuchinskii V.I.	LS-I-11	8
Kugler Sz.	D-I-8	15
Kulagin V.V.	LM-O-16	17
Kulchin Yu.N.	LM-I-27	17, 13
Kulipanov G.N.	TH-O-2	9
Kulmas M.	D-I-2	15
Kunzel S.	LS-I-13	11
Kussovski V.	B-P-7	19
Kutrovskaya S.	LM-I-14, LM-O-9, LM-P-25	10, 17, 21
Kuz'micheva G.M.	LS-I-6	8
Kuzmina T.P.	D-P-8	19
Kuzminov F.	B-P-9	19
Kuznetsova D.	B-I-14	18
Kyung Hyun Park	TH-I-5, TH-O-4	9
Lademann J.	B-I-13	13

<i>Name</i>	<i>Number</i>	<i>Page</i>
Lafouti M.	S-O-3	14
Laguta O.	LS-I-9	8
Lan Jiang	LM-I-8	6
Larin K.	B-I-6	12
Larina I.	B-I-15	18
Latas S. C. V.	NL-O-3	13
Latzel M.	D-I-2	15
Lazar J.	LS-O-3, D-P-10	8, 20
Lazar J.	S-P-1	21
Leahy M.	PI-7	15
Lebedev O.	B-O-1	12
Leitão C.	S-I-3	11
Leitão J.P.	D-I-3	15
Levashov P.R.	LM-O-15	17
Levshov D.I.	D-P-4	19
Lin M.	B-O-2	12
Lingling Huang	S-O-2	11
Linkov K.G.	D-P-5	19
Linn M.	B-I-12	13
Loginov A.	LM-P-22	21
Logunov L.	LM-O-12	17
Lohmüller T.	LM-I-28	17
Loiko P.	LS-I-1, LS-P-6	8, 21
Loor R. de	LM-I-16	10
Lopes N.C.	LS-I-13	11
Lopes P.	S-P-2	21
Lorenz K.	D-I-4	15
Lorenz P.	LM-O-2, LM-P-11	6, 20
Loschenov V.B.	D-P-5	19
Losev S.N.	LS-I-11	8
Lotin A.A.	LM-P-12, LS-P-2	20, 21
Louchev O.A.	LM-I-12	7
Louhibi D.	S-P-3	21, 13
Lugovtsov A.	B-I-12, B-O-2	
Lukstaraupis T.	LM-O-10	17
Lykina A.A.	D-P-8	19
Lykov P.A.	LS-I-6	8
Madanipour K.	S-O-3	14
Madre M.A.	LM-I-7	6
Magnin M.	D-I-1	15
Makarevich A.Yu.	TH-O-1	9
Makarov V.A.	TH-O-1, NL-I-1, NL-O-1	9, 13
Makropoulou M.	D-P-7	19
Maksimov E.	B-P-9	19
Makurenkov A.M.	TH-O-7	9
Malinskiy T.	D-O-3	15
Manshina A.	LM-O-9	17
Mantareva V.	B-P-7	19
Marenkin S.F.	LM-P-9, LM-P-13	20
Markovic V.	LM-I-16	10
Marques C.A.F.	S-I-2	11
Martin C.S.	NL-I-3	13

<i>Name</i>	<i>Number</i>	<i>Page</i>
Masaharu Tsuji	LM-I-3	6
Masahiko Iwasaki	LM-I-12	7
Maslova O.A.	D-I-1	15
Maslyakova G.N.	B-P-1	19
Massaouti M.	S-O-1	11
Matei C.	D-O-1, D-P-2, D-P-3	15, 19
Mateos X.	LS-I-1, LS-P-6	8, 21
Mathews S.	PI-5	13
Matsui H.	LM-I-15	10
Matteini P.	B-I-8	12
Matuzin E.I.	LM-P-1	20
Matveev L.	B-P-6	19
Mauguin O.	D-I-4	15
Mazhukin A.V.	LM-P-19	21
Mazhukin V.I.	LM-P-18, LM-P-19	20
McLaughlin R.A.	B-I-9	13
Medvedkov O.I.	LS-I-15	11
Meglinski I.	B-I-17, B-P-4	18, 19
Melnikov I.V.	LM-I-5	6
Meleshina A.	B-I-14	18
Melissinaki V.	LS-I-11	8
Meller A.	B-P-5	19
Menaert B.	LS-I-5	8
Mendonça J.T.	PI-4, LS-I-12	13, 8
Mereshchenko A.S.	S-O-4	14
Meshcheryakov Yu.P.	LM-I-13	10
Michailovas A.	LS-O-7, LS-P-4	11, 21
Michel Th.	D-P-4	19
Mihailescu I.N.	LM-I-20, B-O-8	10, 18
Mihailescu N.	B-O-8	18
Mikhalevskiy V.A.	LM-P-4, 9, 12, 13	20
Mikio Higuchi	LS-O-4	8
Min Yong Jeon	S-I-1	11
Mironov V.	S-O-4	14
Mironova K.	LM-P-16	20
Mironova K.E.	B-O-1, LM-P-16	12, 20
Mirzade F.Kh.	LM-O-14, LM-P-5, LM-P-20	17, 20, 21
Mishina E.	LM-O-11, LM-P-17	17, 20
Mitkov M.S.	TH-O-2	9
Mitkov M.S.	TH-O-3	9
Mlynczak J.	LS-O-1	8
Model S.S.	D-P-5	19
Mohun R.	D-I-1	15
Molchanov V.	LS-O-6	11
Molchkov E.V.	D-P-9	19
Monteiro T.	LM-I-7, D-I-4	6, 15
Morenza J.L.	LM-I-11	7
Morozov Yu.A.	TH-O-6	9
Moryatov A.	D-O-4	16
Mouskeftaras A.	LM-O-8	10
Muga N.J.	NL-I-3	13
Mulenko S.	LM-I-23	17
Murzakov M.F.	LM-P-2	20

<i>Name</i>	<i>Number</i>	<i>Page</i>
Myakinin O.O.	D-O-4	16
Myeong Ock Ko	S-I-1	11
<b>Nagy A.</b>	D-I-8	15
Nakajima T.	LM-I-15	10
Nakamura T.	LM-I-15	10
Namje Kim	TH-I-5	9
Naoto Koshizaki	LM-I-3	6
Nasirabad R.R.	S-O-3	14
Navolokin N.A.	B-P-1	19
Nazarov M.M.	TH-O-7	9
Nebogatkin S.V.	LS-P-1	21
Nechaev A.V.	B-O-1, LM-P-16	12, 20
Negut I.	B-O-8	18
Nemec M.	LS-I-2	8
Nerushev O.	LM-I-22	17
Neuenschwander B.	LM-I-16	10
Neuhaus K.	PI-7	15
Neves A. J.	D-I-4	15
Nikitin S.	B-I-12	13
Nikolaev I.V.	D-I-6	15
Nikolaev S.N.	LM-P-10	20
Niziev V.G.	LM-O-14, LM-P-20	17, 21
Nogueira E.	B-O-7, B-P-3	18, 19
Nogueira R.	S-P-5	21
Norihito Saito	LM-I-12	7
Novodvorski O.A.	TH-O-1; LM-P-4, 8, 9, 10, 12; LS-P-2	9; 20; 21
<b>O'Donnell K.P.</b>	D-I-4	15
Obraztsova E.	LM-P-21	21
Ochkin V.N.	D-I-6	15
Okhrimchuk A.G.	LS-I-15	11
Oliveira L.	B-O-7, B-P-3	18, 19
Oliveira V.	LM-O-1, LM-I-18	6, 10
Omelchenko A.	B-P-8	19
Oner E.T.	B-O-8	18
Osiko V.V.	LS-I-6	8
Osipov A.	LM-O-9	17
Oszetzky D.	D-I-8	15
Oulehla J.	S-P-1	21
<b>Paillet M.</b>	D-P-4	19
Palianov P.	LM-O-8	10
Palima D.	B-O-6	18
Panchenko V.Ya.	B-O-1	12
Panov M.S.	S-O-4	14
Panova O.	B-I-3	12
Parshina L.S.	LM-P-4, 9, 12, 13	20
Parshina L.V.	TH-O-1	9
Pasikevičius V.	LS-I-8	8, 11
Pasquier C.	LM-I-1	6
Patachia M.	D-I-10, D-O-1, D-P-2, 3	16, 15, 19

<i>Name</i>	<i>Number</i>	<i>Page</i>
Patimisco P.	D-I-11	16
Patrascioiu A.	LM-I-11	7
Pavelyev V.S.	TH-O-2	9
Pelteck S.E.	TH-I-7	9
Pena A.	LS-I-5	8
Penkov N.	B-I-4	12
Penning L.	LM-I-16	10
Pereira D.	S-P-5	21
Peres N.M.R.	TH-I-1	9
Perevedentseva E.	B-P-4	19
Perezhogin I.A.	NL-I-1, NL-O-1	13
Perminov P.A.	LM-P-6	20
Petrov V.	LS-I-1, LS-P-6	8, 21
Petrov Yu.	LM-O-17	17
Petrovskiy V.N.	LM-P-2, LM-P-	20
Petrus M.	D-I-10, D-O-1, D-P-3	16, 15, 19
Petukhov I.A.	LM-P-4, LM-P-8	20
Pinho P.	OC-P-1	21
Pini R.	B-I-8	12, 13
Pinto A.N.	NL-I-3	13
Pinto J.L.	S-I-3, S-P-4	11, 21
Pique A.	PI-5	13
Pires H.	LS-I-13	11
Pivovarov P.A.	LM-O-4, LM-P-18	7, 20
Polskiy V.I.	LM-P-3	20
Pontes M.J.	S-I-4	14
Poozesh R.	S-O-3	14
Popa C.	D-O-1	15
Potlov A.Yu.	B-P-2	19
Povarnitsyn M.E.	LM-O-15	17
Povolotckaia A.	LM-O-9	17
Povolotskiy A.	LM-O-9	17
Presnov D.	D-I-5	15
Priezzhev A.	B-I-12, B-O-2, B-P-11	13, 22, 21, 12, 18
Prokopova N.M.	LM-P-2, LM-P-3	20
Proskurin S.G.	B-P-2	19
Proskurina O.	B-P-10	19
Prunskaitė- Hyyryläinen R.	B-P-4	19
Pustovoi V.	D-I-7	15, 16
Putilin F.N.	LM-P-4, LM-P-8	20
<b>Qiang Cao</b>	LM-I-8	6
<b>Račiukaitis G.</b>	LM-O-5	7
Rafailov E U.	LS-I-11, TH-I-3	8, 9
Raimboux N.	D-I-1	15
Raposo M.	NL-O-2	13
Rasekh Sh.	LM-I-7	6
Ratto F.	B-I-8	12
Razdobreev I.	LS-I-9	8
Rebrov I.E.	LS-P-1	21
Rech B.	D-I-2	15

<i>Name</i>	<i>Number</i>	<i>Page</i>
Resan B.	LM-I-16	10
Richter V.	B-I-10	13
Rigó I.	D-I-8, D-P-11, LM-P-23	15, 20, 21
Rino L.	D-I-4	15
Ristoscu C.	LM-I-20, B-O-8	10, 18
Rocheva V.	LM-P-16	20
Rodin A.M.	LS-O-7	11
Rodrigues J.	LM-I-7, D-I-4	6, 15
Romeira B.	OC-I-2	18
Roohforouz A.	S-O-3	14
Rossi F.	B-I-8	12
Rotermund F.	LS-I-3	8
Rotondaro M.D.	LS-I-14	11
Rovnyagina N.	B-O-3	12
Ruão F.	LS-I-13	11
Rumyantseva M.N.	LM-P-8	20
Rusteika N.	LS-P-4	21
Rylkin Yu.	B-P-5	19
Rylkov V.V.	LM-P-10	20
Sáfrány Á.	D-P-11	20
Salgado H.M.	OC-I-1	18
Samokhin A.A.	LM-P-18, LM-P-19	20
Samokhvalov A.	LM-P-22	21
Sampaolo A.	D-I-11	16
Sampson D.D.	B-I-9	13
Sanches E.	B-I-3	12
Sang-Pil Han	TH-I-5	9
Sanner N.	LM-I-1, LM-O-3	6
Santos J.E.	TH-I-1	9
Santos N.F.	LM-I-7	6
Santos T.	S-P-5	21
Sapunov D.	B-P-5	19
Sarau G.	D-I-2	15
Šarbort M.	LS-O-3, D-P-10, S-P-1	8, 20, 21
Sarnet T.	LM-O-6	10
Satoshi Wada	LM-I-12, LS-O-4	7, 8
Sauvajol J.-L.	D-P-4	19
Savelieva T.A.	D-P-5	19
Savelyev A.G.	B-O-4	12
Scamarcio G.	D-I-11	16
Scheres L.	S-O-1	11
Schickinger S.	B-I-10	13
Schmitt S.	D-I-2	15
Schneckenburger H.	B-I-10	13
Sedrine N.B.	D-I-4	15
Segonds P.	LS-I-5	8
Semchishen V.	LM-P-16	20
Semchishen V.A.	B-O-1, B-O-4, LM-P-16	12, 20
Semin S.	LM-P-17	20
Semjonov S.L.	LS-I-15	11
Sentis M.	LM-I-1, LM-O-3, LM-O-6	6, 10, 7
Sequeir M.C.	D-I-4	15

<i>Name</i>	<i>Number</i>	<i>Page</i>
Serafetinides A.A.	D-P-7	19
Seregin V.F.	LS-O-2	8
Sergeev M.M.	LM-I-6, LM-P-1	6, 20
Sergeeva O.	D-P-12	20
Serra P.	LM-I-11	7, 10
Serres J.M.	LS-I-1	8
Serres J.M.	LS-P-6	21
Shakhov A.	B-P-5	19
Shakhova M.	B-P-5	19
Shakhova N.	B-I-3	12
Shandybina G.D.	LM-P-15	20
Shapranov A.V.	LM-P-18, LM-P-19	20
Sharma S.	LM-O-1	6
Shaykin A.	LS-I-10	8
Shcherbakov I.A.	LS-I-7	8
Sherstyuk N.	LM-P-17	20
Shesterkin V.	LM-P-7	20
Shirshin E.	B-O-3; B-I-12; B-P-9,10,11	12; 13; 19
Shkurinov A.P.	TH-I-6, TH-O-1, TH-O-7	9
Shorokhova A.V.	LM-P-4, 8, 10, 12, 13	20
Shukhov Yu.G.	LM-I-22	17
Shuleiko D.V.	D-P-6	19
Sianoudis I.A.	D-P-7	19
Sibbett W.	LS-I-11	8
Siegel J.	LM-O-8	10
Sikora A.	LM-O-6	10
Silva L.O.	LS-I-12	8
Silva R.F.	LM-I-7	6
Sima F.	B-O-8	18
Sima L.	B-O-8	18
Siminel N.	LS-P-3	21
Simões P.	S-P-2	21
Simon P.	D-I-1	15
Sinitsyn D.	LS-I-4	8
Sirotkina M.	B-P-6	19
Skovorodkin I.	B-P-4	19
Smikhovskaia A.A.	LM-O-12	17
Smulders M.	S-O-1	11
Soares M.R.	LM-I-7	6
Sobol E.	B-I-7, B-P-8	12, 19
Sobolev N.		19
Soboleva K.K.	LS-I-11	8
Soifer V.A.	TH-O-2	9
Sokolova T.	LM-P-7	20
Sokolovskii G.S.	LS-I-11	8
Solis J.	LM-O-8	10
Solnyskin A.	D-P-12	20
Solyankin P.	TH-I-6, TH-O-1	9
Sotelo A.	LM-I-7	6
Spagnolo V.	D-I-11	16
Stanciu G.A.	B-I-1	12
Stanciu S.G.	B-I-1	12
Stankevičius E.	LM-O-5	7

<i>Name</i>	<i>Number</i>	<i>Page</i>
Starikova M.K.	D-O-2, B-P-12	15, 19
Starinskiy S.V.	LM-I-22	17
Stefanaki I.	D-P-7	19
Stepanova E.V.	B-O-1	12
Stratigos A.J.	D-P-7	19
Subhash H.	PI-7	15
Sukhorukov G.B.	B-I-5	12
Sulinskas K.	LM-O-10	17
Surmenko E.	LM-P-7	20
Svenskaya Yu.I.	B-I-5	12
Sverchkov S.	LS-I-9, LS-I-15	8, 11
Sypek M.	TH-I-8	9
Tadashi Nishikawa	LM-I-17	10
Takanobu Tsunoi	LM-I-17	10
Takayo Ogawa	LS-O-4	8
Takeshi Tsuji	LM-I-3	6
Tatini F.	B-I-8	12
Tcheremiskine V.	LM-O-3	6
Terentyuk G.S.	B-I-5, B-P-1	12, 19
Tessarek Ch.	D-I-2	15
Tetsuomi Sogawa	LM-I-17	10
Tiguntseva E.Y.	LM-P-1	20
Tikhonova T.	B-O-3, B-I-12	12, 13
Timashev P.	B-I-14	18
Tittel F.K.	D-I-11	16
Tkachev A.	D-I-5	15
Tobon Y.	D-I-1	15
Tomilova L.	NL-P-1	21
Tóth S.	D-I-8; D-P-11; LM-P-14, 23	15; 20; 21
Tranca D.E.	B-I-1	12
Tribelsky M.I.	LM-I-26	17
Trikshev A.I.	LS-O-2	8
Trilling A.	S-O-1	11
Trines R.	LS-I-12	8
Troyanova P.	B-I-4	12
Tskhai S.N.	D-I-6	15
Tsuchiya T.	LM-I-15	10
Tsvetkov V.B.	LS-I-7, LS-O-2	8
Tuchin V.V.	B-I-2; B-I-5; B-O-7; B-P-1, 3	12; 13; 18; 19
Tumkin I.I.	S-O-4, LM-O-12	14, 17
Ustinov V.	B-O-2	12
Uteza O.	LM-I-1, LM-O-3	6
Vainio S.	B-P-4	19
Vartanyan T.	LM-P-25	21
Vasilevskiy M.I.	TH-I-1	9
Vasiliev A.L.	LM-P-13	20
Vatani V.	S-O-3	14
Veiko V.P.	LM-I-6, LM-P-1, LM-P-22	6, 20, 21, 15
Verebély T.	D-I-8	15
Verebélyi T.	D-P-11	20

<i>Name</i>	<i>Number</i>	<i>Page</i>
Veres M.	D-I-8; D-P-11; LM-P-14, 23	15; 20; 21
Vettenburg T.	B-I-11	13
Vetter A.	D-P-1	19
Vicente C.M.S.	NL-P-2	21
Vieira J.	LS-I-12	8
Vilar R.	LM-O-1, LM-I-18	6, 10
Villangca M.	B-O-6	18
Vinokurov N.A.	TH-O-2	9
Visan A.	B-O-8	18
Vitkin A.	B-P-6	19
Vladimirov B.	B-I-4	12
Voisin P.	D-I-4	15
Volodkin B.O.	TH-O-2	9
Wagner M.	B-I-10	13
Wang J.	TH-I-2	9
Wasige E.	TH-I-2	9
Webb D.J.	S-I-2	11
Weber P.	B-I-10	13
Weingarten K.	LM-I-16	10
Wijesinghe P.	B-I-9	13
Williams G.	LS-I-13	11
Wilson C.	PI-7	15
Won-Hui Lee	TH-I-5	9
Xiaowei Li	LM-I-8	6
Xiaoyan Sun	LM-I-4	6
Xin Xiang	S-I-5	14
Xueliang Yan	LM-I-8	6
Yakovlev E.B.	LM-P-15	20
Yamaguchi I.	LM-I-15	10
Yamshchikov V.A.	LS-P-1	21
Yang Liu	LM-I-8	6
Yanina I.Yu.	B-I-5	12
Ye Wang	B-I-16	18
Yong Feng Lu	LM-I-2, LM-I-8	6, 10
Yong Seok Kwon	S-I-1	11
Yoshie Ishimawa	LM-I-3	6
Yu Oishi	LM-I-12	7
Yumashev K.	LS-I-1, LS-P-6	8, 21
Yurchenko S.	TH-I-4	9
Yurchenko S.	TH-O-5	9
Yushkov K.	LS-O-6	11
Yuuma Higashi	LM-I-3	6
Yuzyuk Y.I.	D-I-1, D-P-4	15, 19
Zabelina E.	LS-P-3	21
Zabotnov S.	D-I-5, B-O-5, D-P-6, LM-P-6	15, 18, 19, 20
Zaccaro J.	LS-I-5	8
Zacharatos F.	LS-P-5	21
Zagaynova E.	B-I-14, B-P-6	18, 19

<i>Name</i>	<i>Number</i>	<i>Page</i>
Zaytsev A.A.	D-I-6	15
Zaitsev V.	B-P-6	19
Zakharov V.	D-O-4, D-P-8, D-P-9	16, 19
Zasedatelev A.	NL-P-1	21
Zavalov Yu.	LM-O-13	17
Zavedeev E.V.	LM-O-4, LM-P-21	7, 21
Zavestovskaya I.	LM-I-4	6
Zaytsev K.	TH-I-4, TH-O-5	9
Zelenina A.	D-P-6	19
Zenou M.	LM-O-7	10
Zenov K.	D-O-2, B-P-12	15, 19
Zergioti I.	S-O-1, LS-P-5	11, 21
Zhakhovsky V.	LM-O-17	17
Zhang Hongyu	LM-I-25	17
Zhdanov B.	LS-I-14	11, 8
Zhdanova N.	B-P-11	19

<i>Name</i>	<i>Number</i>	<i>Page</i>
Zheltikov A.	PI-6	15, 17
Zhelyazkova Al.	B-I-4	12
Zhigalina O.	LM-O-11	17
Zhigunov D.M.	B-O-5, D-P-6	18, 19
Zhou Ming	LM-I-25	17
Zhukov V.P.	LM-I-13	10
Ziaie S.	NL-I-3	13
Zimin S.	LM-I-14	10
Zimmer K.	LM-O-2, LM-P-11	6, 20
Zimmermann M.	LM-I-16	10
Zucco M.	S-P-1	21
Zuev D.A.	LM-P-8, 10, 12	20
Zuilhof H.	S-O-1	11
Zukauskas A.	LS-I-8	8
Zverev P.G.	LS-I-6	8
Zvyagin A.V.	B-O-1	12