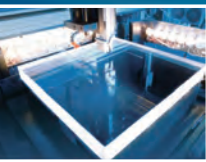


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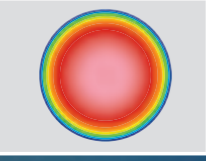
PRODUCT FEATURES 产品特性



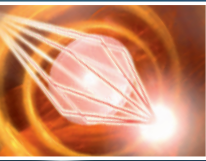
Unique homogenization process
 独家采用匀化工艺



Best bubble class up to <math><10\mu\text{m}</math>
 气泡杂质低至 <math><10\mu\text{m}</math>



Symmetric refractive index distribution
 折射率呈对称分布



Low absorption in UV and IR
 紫外和红外低吸收



Reliable quality for big volume and large size
 大规模制造大尺寸材料时仍保持质量稳定



APPLICATIONS 应用

Laser fusion
 激光聚变



High power laser
 高功率激光



Gravity wave detection
 引力波探测



Laser welding and cutting
 激光焊接切割



Commercial laser optics
 商用激光光学材料



THE 4TH INTERNATIONAL SYMPOSIUM ON
HIGH POWER LASER
 SCIENCE AND ENGINEERING (HPLSE2021)

SUZHOU, CHINA
04/12-04/16



Organizer



Co-organizers



Technical Cosponsor



April 12

- 08:30-20:00 Registration Lobby Shanshui Building

April 13

- 08:00-18:00 Registration Lobby Shanshui Building
- 08:30-08:50 Opening Ceremony Chun Han Hall, 2F Shanshui Building
- 08:50-11:20 Plenary Session Chun Han Hall, 2F Shanshui Building
- 11:20-11:55 Optics Frontier Recruitment Session Chun Han Hall, 2F Shanshui Building
- 14:00-17:00 Poster Session Lobby Yuanzhong Building

April 14

- 08:00-18:00 Registration Lobby Shanshui Building
- 09:00-11:15 Plenary Session Chun Han Hall, 2F Shanshui Building
- 11:15-11:50 Optics Frontier Recruitment Session Chun Han Hall, 2F Shanshui Building
- 18:30-20:30 Banquet Chun Han Hall, 2F Shanshui Building
- 13:20-17:20 Topic 1 I Yuanxiang Room, 3F Yuanzhong Building
- 13:30-17:15 Topic 1 II Boya Room, 3F Yuanzhong Building
- 13:00-17:55 Topic 2 Xiexiu Room, 1F Yuanzhong Building
- 13:30-17:30 Topic 3 Fucui Room, 2F Yuanzhong Building
- 13:30-17:55 Topic 4 Yuancui Room, 1F Yuanzhong Building

April 15

- 08:00-18:00 Registration Lobby Shanshui Building
- 09:00-11:15 Plenary Session Chun Han Hall, 2F Shanshui Building
- 11:15-11:50 Optics Frontier Recruitment Session Chun Han Hall, 2F Shanshui Building
- 13:30-17:20 Topic 1 I Yuanxiang Room, 3F Yuanzhong Building
- 13:30-16:50 Topic 1 II Boya Room, 3F Yuanzhong Building
- 13:30-18:30 Topic 2 Xiexiu Room, 1F Yuanzhong Building
- 13:30-16:35 Topic 3 Fucui Room, 2F Yuanzhong Building
- 13:30-17:30 Topic 4 Yuancui Room, 1F Yuanzhong Building

April 16

- 08:00-10:45 Registration Lobby Shanshui Building
- 08:30-11:10 Topic 1 I Yuanxiang Room, 3F Yuanzhong Building
- 08:30-11:25 Topic 1 II Boya Room, 3F Yuanzhong Building
- 08:00-12:30 Topic 2 Xiexiu Room, 1F Yuanzhong Building
- 08:30-11:30 Topic 4 Yuancui Room, 1F Yuanzhong Building
- 13:30-17:00 Lab tour to SIOM SIOM

Welcome

The 4th International Symposium on High Power Laser Science and Engineering (HPLSE2021) is organized by Shanghai Institute of Optics and Fine Mechanics (SIOM), Chinese Academy of Sciences (CAS), and will be held during April 12-16, 2021 in Suzhou, China.

HPLSE is held every two years, and aims at bringing together worldwide scientists and engineers working on the topics of high energy density physics, high power laser, high power laser related components, and advanced laser technology and applications.

We warmly welcome you to come and join us to share your great progress and experience!

Symposium Co-chairs



Xian-Tu He
(CAEP, China)



Dianyuan Fan
(SIOM, CAS / Shenzhen University, China)



Colin Danson
(AWE/CIFS, ICL, UK)

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Co-chairs

Xian-Tu He (CAEP, China)

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Kazuo A. Tanaka, ELI-NP, Romania

Michael Tatarakis, Technological Education Institute of Crete, Greece

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Tips

The conference organizer will be there for help for all participations. All volunteers and staffs are in Yellow Lanyard.
本次会议工作人员及志愿者将统一佩戴黄色挂绳，如您在参会中遇到任何问题，会议工作人员及志愿者将及时为您提供帮助。

Speaker Preparation

25 min presentation for an invited talk includes Q & A.

15 min presentation for an oral talk includes Q & A.

Please arrive at the corresponding session room at least 30 min before your talk to upload and check your presentation.

Poster Session

Time: 14:00-17:00, April 13 Position: Lobby at 1F of Yuanzhong Building

Wifi

All meeting rooms are equipped with free wifi with no password.

Meals

The meal tickets are printed together with the badge. Please go to the canteen according to the time and location.

Please notice that no replacement will be offered if you lost the meal tickets.

Conference Venue

Nanlin Hotel

Address: No. 20 Gunxiufang, Shiquan Street, Gusu District, Suzhou, China

苏州南林饭店

地址：苏州市姑苏区十全街滚绣坊20号

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Hotel: Mr. Kan Wu: 13721121208

E-mail: hplse@siom.ac.cn

Website: <http://www.hplse.net>

PLENARY SESSION I

 Chun Han Hall
2021.04.13

President: Yuxin Leng, Shanghai Institute of Optics and Fine Mechanics, CAS, China

08:30-08:50 | Opening Ceremony

President: Yuxin Leng, Shanghai Institute of Optics and Fine Mechanics, CAS, China

08:50-09:30 | **Experiments on conical compression and collision of plasma jets in the double-cone ignition scheme** (Plenary)

Jie Zhang Institute of Physics, CAS, China; Shanghai Jiao Tong University, China

09:30-10:10 | **Petawatt and exawatt class lasers worldwide** (Plenary)

Colin Danson
AWE/CIFS, Physics Department, Imperial College London, United Kingdom

10:10-10:40 | Group Photo & Coffee Break

10:40-11:20 | **A vision of the future for high power laser research and their applications** (Plenary)

Michael Campbell University of Rochester, United States

President: Lei Yang, Chinese Laser Press, China

11:20-11:55 | Optics Frontier Recruitment Session

PLENARY SESSION II

 Chun Han Hall
2021.04.14

President: Yutong Li, Institute of Physics, CAS, China

09:00-09:40 | **Updated hybrid-drive implosion toward ignition** (Plenary)

Xian-Tu He CAEP, China

09:40-10:20 | **Progress and future prospect of high energy density science in Japan** (Plenary)

Ryosuke Kodama Osaka University, Japan

10:20-10:35 | Coffee Break

10:35-11:15 | **High energy density science with X-Ray free electron lasers** (Plenary)

Justin Wark University of Oxford, United Kingdom

President: Lei Yang, Chinese Laser Press, China

11:15-11:50 | Optics Frontier Recruitment Session

PLENARY SESSION III

 Chun Han Hall
2021.04.15

President: Liejia Qian, Shanghai Jiao Tong University, China

09:00-09:40 | **Reflections on the further development of high power laser systems** (Plenary)

Jianqiang Zhu Shanghai Institute of Optics and Fine Mechanics, CAS, China

09:40-10:20 | **Prospects for high gain for inertial fusion energy** (Plenary)

Peter Norreys University of Oxford, United Kingdom

10:20-10:35 | Coffee Break

10:35-11:15 | **First demonstration of 10PW laser beam at ELI-NP** (Plenary)

Olivier CHALUS Thales LAS France, France

President: Lei Yang, Chinese Laser Press, China

11:15-11:50 | Optics Frontier Recruitment Session

Session 1.		Yuanxiang Room
TOPIC 1: HIGH ENERGY DENSITY PHYSICS I		2021.04.14
13:20-13:30	X-ray multilayer mirror-principle, process, features and its application in static and ultrafast X-ray diffraction (Industrial) Zhiwei Li Top-Unistar Science & Technology Co., Ltd, China	
Presider: Bin Qiao, Peking University, China		
13:30-13:55	Strong Terahertz radiation generation and application to diagnose fast electrons (Invited) Yutong Li Institute of Physics, CAS, China	
13:55-14:20	Plasmas for manipulating and diagnosing coherent light (Invited) Stefan Weber ELI-Beamlines, IoP, Czech Academy of Sciences, Czech Republic	
14:20-14:45	Supersonic collision of high-density plasma jets (Invited) Zhe Zhang Institute of Physics, CAS, China	
14:45-15:00	In situ detection of capacitively coupled plasma by optic probe (Oral) Ze-liang Zhang Beijing University of Technology, China	HPLSE2020-2020-000043
15:00-15:15	Laboratory evidence for proton energization by collisionless shock surfing (Oral) Weipeng Yao LULI - CNRS, CEA, France	HPLSE2021-2021-000010
15:15-15:30	Measurement and understanding the shell shape of direct-driven capsules with hard X-ray imaging technology (Oral) Zhongjing Chen Laser fusion research center, CAEP, China	HPLSE2020-2020-000045
15:30-15:45	Coffee Break	
Presider: Yutong Li, Institute of Physics, CAS, China		
15:45-16:10	TBA (Invited) Bin Qiao Peking University, China	
16:10-16:35	Phase control of implosion acceleration non-uniformity in heavy ion inertial fusion (Invited) Shigeo Kawata Utsunomiya University, Japan	
16:35-16:50	High-sensitivity ion diagnostics in laser-matter experiments with intense electromagnetic pulses in the radiofrequency-microwave regime (Oral) Fabrizio Consoli ENEA, Fusion and Nuclear Safety Department, Italy	HPLSE2021-2021-000105
16:50-17:05	Experiments on energy flows in conical implosion (Oral) Yihang Zhang Institute of Physics, CAS, China	HPLSE2021-2021-000088
17:05-17:20	X-ray diagnostics of laser-induced plasma embedded in strong poloidal magnetic field of misaligned longitudinal and transverse orientations (Oral) Evgeny Filippov Institute of Applied Physics, RAS, Russia; Joint Institute for High Temperatures, RAS, Russia	HPLSE2021-2021-000071

Session 1.		Yuanxiang Room
TOPIC 1: HIGH ENERGY DENSITY PHYSICS I		2021.04.15
Presider: Zhe Zhang, Institute of Physics, CAS, China		
13:30-13:55	Development of Thomson scattering as a precise diagnostics of high-energy-density plasmas (Invited) Jian Zheng University of Science and Technology of China, China	
13:55-14:20	Orthogonal proton probing of ns-duration laser-driven currents and implications for all-optical magnetic field sources (Invited) Philip Bradford York Plasma Institute, Department of Physics, University of York, United Kingdom	
14:20-14:45	Polarization dependence of the laser-plasma interaction at sub-relativistic intensities (Invited) YanJun Gu Institute of Physics of ASCR, ELI-Beamlines, Czech Republic; Institute of Plasma Physics of the CAS, Czech Republic	
14:45-15:00	Deflection of energetic electron in plasmas (Oral) Bin He Institute of applied physics and computational mathematics, China	HPLSE2021-2021-000006
15:00-15:15	Anomalous stimulated raman scattering in large-incident-angle direct-drive experiments (Oral) Xiaohui Yuan Shanghai Jiao Tong University, China	HPLSE2021-2021-000094
15:15-15:30	Convolutional neural networks applied to proton radiography of strong laser-driven magnetic fields (Oral) Nikolai Bukharskii National Research Nuclear University MEPhI, Russia	HPLSE2021-2021-000051
15:30-15:45	Coffee Break	
Presider: Jian Zheng, University of Science and Technology of China, China		
15:45-16:10	Relativistic plasma at non-relativistic intensity (Invited) Krishnamurthy Manchikanti TIFR, India	
16:10-16:35	First radiative shock experiments on the SG-II laser (Invited) Francisco Suzuki-Vidal Imperial College London, United Kingdom	
16:35-16:50	Improving hydrodynamic efficiency in direct-drive implosion experiments (Oral) Hao Liu Shanghai Jiao Tong University, China	HPLSE2021-2021-000113
16:50-17:05	Laboratory investigation of the interpenetration between two collisionless shocks (Oral) Alice Fazzini LULI - CNRS, CEA, France	HPLSE2021-2021-000095
17:05-17:20	The experiment investigation of Laser-Plasma Interaction of direct drive laser with intensity over 1015W/cm² under 200eV radiation background on the 100kJ level laser facility (Oral) Ji Yan Laser Fusion Research Center, CAEP, China	HPLSE2020-2020-000020

Session 1.		Yuanxiang Room
TOPIC 1: HIGH ENERGY DENSITY PHYSICS I		2021.04.16
Presider: Wei Wang, Shanghai Institute of Laser Plasma, China		
08:30-08:55	How the non-thermal pressures of CPA laser pulses dominate for initiation of nuclear fusion ignition against needing hundred million degrees Celsius temperatures (Invited) Hora Heinrich University of New South Wales, Sydney, Australia	
08:55-09:20	Interpretation of energy coupling between the fast electron beam and the imploded core in super-penetration fast ignition (Invited) Tao Gong Osaka University, Japan; Laser Fusion Research Center, CAEP, China	
09:20-09:45	Laser driven radiation Enhanced by double-layer target (Invited) Wei Wang Shanghai Institute of Laser Plasma, China	HPLSE2021-2021-000073
09:45-10:00	Illumination uniformity on the spherical cap: a Thomson problem with boundary conditions (Oral) Lei Ren Shanghai Institute of Optics and Fine Mechanics, CAS, China	
10:00-10:15	Nuclear reactions in plasma induced by high intensity lasers (Oral) Changbo Fu Fudan University, China	HPLSE2020-2020-000016
10:15-10:30	Time-dependent reflectivity of low-density porous media of light elements under high-power laser irradiation (Oral) Mattia Cipriani ENEA, Fusion and Technologies for Nuclear Safety Department, Italy	HPLSE2021-2021-000110
10:30-10:45	On the optical magnetic field generators in picosecond regime (Oral) Philipp Korneev MEPhI, Russia	HPLSE2021-2021-000064

Session 2.		Boya Room
TOPIC 1: HIGH ENERGY DENSITY PHYSICS II		2021.04.14
Presider: Jingwei Wang, Shanghai Institute of Optics and Fine Mechanics, CAS, China		
13:30-13:55	Driving positron beam acceleration with coherent transition radiation (Invited) Baifei Shen Shanghai Normal University, China	
13:55-14:20	Ultraintense laser-driven QED effects (Invited) Jian-Xing Li Xi'an Jiaotong University, China	
14:20-14:45	Extreme terahertz generation from ultraintense laser-solid interactions (Invited) Guoqian Liao Institute of Physics, Chinese Academy of Sciences, China	
14:45-15:00	Highly energetic heavy ions generation from near-critical-density double-layer targets irradiated by multi-petawatt lasers (Oral) Wenjun Ma Peking University, China	HPLSE2021-2021-000003
15:00-15:15	Laser-driven proton acceleration via excitation of Surface Plasmon Polariton waves into nanotube array targets (Oral) Gabriele Cristoforetti ILL, Istituto Nazionale di Ottica, CNR, Italy	HPLSE2021-2021-000081
15:15-15:30	Extremely dense gamma-ray pulses in electron beam-multifoil collisions (Oral) Archana Sampath Max-Planck-Institut für Kernphysik, Germany	HPLSE2021-2021-000057
15:30-15:45	Coffee Break	
Presider: Baifei Shen, Shanghai Normal University, China		
15:45-16:10	Extreme-light physics: the Apollon laser & SMILEI projects (Invited) Mickael Grech LULI, CNRS, Ecole Polytechnique, France	
16:10-16:35	Laser-driven plasma acceleration at the Intense Laser Irradiation Laboratory (Invited) Leonida Antonio GIZZI Istituto Nazionale di Ottica, CNR, also at INFN, Italy	
16:35-17:00	Intense attosecond pulses carrying orbital angular momentum using laser plasma interactions (Invited) Jingwei Wang Shanghai Institute of Optics and Fine Mechanics, CAS, China	
17:00-17:15	Three-fold proton energy enhancement in Target Normal Sheath Acceleration driven by an improved laser-to-electron coupling in a long-scale plasma gradient produced by a controlled femtosecond pre-pulse (Oral) Elisabetta Boella Lancaster University, United Kingdom	HPLSE2021-2021-000102

Session 2.		Boya Room
TOPIC 1: HIGH ENERGY DENSITY PHYSICS II		2021.04.15
Presider: Wenjun Ma, Peking University, China		
13:30-13:55	Progress on laser wakefield acceleration and radiation (Invited) Zhengming Sheng Shanghai Jiao Tong University, China; University of Strathclyde, United Kingdom	
13:55-14:20	Polarized particle beams from laser-plasma accelerators (Invited) Markus Büscher Heinrich-Heine-Universität Düsseldorf, Germany	
14:20-14:45	Visualization of material modification and plasma generation in solids under strong femtosecond laser fields (Invited) Bonggu Shim Binghamton University, United States	
14:45-15:00	Optical manipulation of particle beam by relativistic vortex cutter (Oral) Wenpeng Wang Shanghai Institute of Optics and Fine Mechanics, CAS, China	HPLSE2020-2020-000025
15:00-15:15	Quantum mechanisms of particle acceleration through nonlinear Compton scattering and nonlinear breitt-wheeler process in coherent photon dominated regime (Oral) Bo Zhang Research center of laser fusion, China	HPLSE2020-2020-000041
15:15-15:30	Laser-induced high-flux neutron sources (Oral) Vojtěch Horný LULI - CNRS, Ecole Polytechnique, CEA: Université Paris-Saclay, France	HPLSE2021-2021-000099
15:30-15:45	Coffee Break	
Presider: Wenpeng Wang, Shanghai Institute of Optics and Fine Mechanics, CAS, China		
15:45-16:10	Transition from regular to chaotic behavior in relativistic laser plasma mirrors (Invited) Philippe Martin CEA-LIDYL, France	
16:10-16:35	Advancing laser plasma accelerators by means of femto-scale diagnostics (Invited) Ulrich Schramm HZDR, Germany	
16:35-16:50	Recent progress of high time-space diagnostic technology of inertial confinement fusion based on Shenguang laser facility (Oral) Feng Wang Laser Fusion Research center, China	HPLSE2020-2020-000110

Session 2.		Boya Room
TOPIC 1: HIGH ENERGY DENSITY PHYSICS II		2021.04.16
Presider: Panzheng Zhang, Shanghai Institute of Optics and Fine Mechanics, CAS, China		
08:30-08:55	Dual-colour laser wakefield electron accelerator (Invited) Nasr Hafz ELI-ALPS, Hungary	
08:55-09:20	Enhanced laser absorption at high intensities with nanostructured near-critical foams (Invited) Irene Prencipe Helmholtz-Zentrum Dresden-Rossendorf, Germany	
09:20-09:45	Megatesla magnetic field generation by relativistic laser-plasma interaction (Invited) Masakatsu Murakami Osaka university, Japan	HPLSE2021-2021-000005
09:45-10:00	EMP generation from high-power laser interacting with solid targets (Oral) Tingshuai Li University of Electronic Science and Technology of China, China	
10:00-10:15	Coffee Break	
Presider: Guoqian Liao, Institute of Physics, CAS, China		
10:15-10:40	Lateral confinement and stochastic heating of hot electron for efficient ion acceleration (Invited) Kunioki Mima Institute of Laser Engineering, Osaka University, Japan	
10:40-10:55	Optimization of laser pulse shape based on genetic algorithm in double-cone Ignition scheme (Oral) Fuyuan Wu Shanghai Jiao Tong University, China	HPLSE2021-2021-000062
10:55-11:10	Transient electromagnetic fields generated in experiments at the Phelix laser facility (Oral) Massimiliano Sciscio ENEA - Fusion and Nuclear Safety Department, Italy	HPLSE2021-2021-000106
11:10-11:25	Study of the preplasma properties using time-resolved reflection spectroscopy (Oral) Johannes Hornung, GSI-Darmstadt, Germany; Helmholtz Institute Jena, Germany; University of Jena, Germany	HPLSE2020-2020-000081

Session 3.		Xiexiu Room
TOPIC 2: HIGH POWER LASER SYSTEMS		2021.04.14
President: Xiaoyan Liang, Shanghai Institute of Optics and Fine Mechanics, CAS, China		
13:00-13:25	Resolving ultrahigh-contrast (130dB) ultrashort pulses with single-shot cross-correlator at the photon noise limit (Invited) Liejia Qian Shanghai Jiao Tong University, China	
13:25-13:50	Power scaling in Yb³⁺-doped high power fiber amplifiers (Invited) Michalis Zervas University of Southampton, United Kingdom	
13:50-14:15	PETAL laser performance on the first experimental campaigns (Invited) NATHALIE BLANCHOT CEA, France	
14:15-14:40	Temporal measurement of high-intensity laser pulses directly on target during laser-matter interactions (Invited) Helder M.P.R.C. Crespo Imperial College London, United Kingdom	
14:40-14:55	The effect of stress on the conversion efficiency of large aperture frequency converter ("Shenguang" International Forum for Graduate Students-Oral) Dongya Chu Tsinghua university, China	HPLSE2021-2021-000035
14:55-15:10	Optimization of disposable debris shield in high-energy PW laser focusing system ("Shenguang" International Forum for Graduate Students-Oral) Jiamei Li SIOM, China; University of Chinese Academy of Sciences, China	HPLSE2021-2021-000096
15:10-15:25	Development of a Petawatt OPCPA beamline for the Vulcan Laser (Oral) Ian Musgrave Science and Technology Facilities Council, United Kingdom	HPLSE2020-2020-000115
15:25-15:40	Coffee Break	
President: Liejia Qian, Shanghai Jiao Tong University, China		
15:40-16:05	Recent status of Shanghai superintense ultrafast laser facility (SULF) at SIOM (Invited) Xiaoyan Liang Shanghai Institute of Optics and fine Mechanics, China	
16:05-16:30	Multi-TW optical waveform synthesizer for generating GW isolated attosecond pulses (Invited) Katsumi Midorikawa RIKEN Center for Advanced Photonics, Japan	
16:30-16:55	ELI-NP overview and upcoming experiments (Invited) Mihail CERNAIANU IFINHH ELI-NP, Romania	
16:55-17:10	Development of new injection system technology (Oral) Xiaochao Wang Shanghai Institute of Optics and Fine Mechanics, CAS, China	HPLSE2021-2021-000109
17:10-17:25	Thermal effects on high-reflective optics for high power lasers (Oral) Min Li Laser Fusion Research Center, China Academy of Engineering Physics, China	HPLSE2021-2021-000043



17:25-17:40	16.2J, 10Hz Nd:YAG ceramic active mirror laser amplifier with high beam quality (Oral) Jianlei Wang Shanghai Institute of Optics and Fine Mechanics, China	HPLSE2020-2020-000083
17:40-17:55	Load-controlled polarization of large-aperture optics in high-power laser amplifier (Oral) Menjiya Tian Tsinghua University, China	HPLSE2021-2021-000058

Session 3.		Xiexiu Room
TOPIC 2: HIGH POWER LASER SYSTEMS		2021.04.15
President: Xuechun Li, Shanghai Institute of Optics and Fine Mechanics, CAS, China		
13:00-13:25	Low-coherence laser driver technology (Invited) Yanqi Gao Shanghai Institute of Laser Plasma, China	
13:25-13:50	High power raman fiber lasers: recent progress and future prospect (Invited) Pu Zhou National University of Defense Technology, China	
13:50-14:15	MTW-OPAL: a prototype optical parametric amplifier line for ultra-intense laser technology development (Invited) Jake Bromage University of Rochester, LLE, United States	
14:15-14:40	11W, 50fs Yb-hybrid regenerative amplifier at 43kHz repetition rate and the mid-infrared pulse generation (Invited) Houkun Liang Sichuan University, China	
14:40-14:55	Compact beam alignment and its application (Oral) Shunxing Tang Shanghai Institute of Optics and Fine Mechanics, CAS, China	HPLSE2020-2020-000010
14:55-15:10	Formation mechanism and mitigation of unconjugated hot images in high power laser system (Oral) Zhaoyang Jiao Shanghai Institute of Optics and Fine Mechanics, China	HPLSE2021-2021-000117
15:10-15:25	Recent research progress on high energy amplification of chirped laser pulse (Oral) Xiao Liang Shanghai institute of optics and fine mechnics, CAS, China	HPLSE2020-2020-000001
15:25-15:40	Coffee Break	
President: Houkun Liang, Sichuan University, China		
15:40-16:05	Progress on laser control technologies for injection laser system of NLHPLP (Invited) Wei Fan Shanghai institute of optics and fine mechnics, CAS, China	
16:05-16:30	Pre-pulse technique for high energy stimulated brillouin scattering phase conjugation mirror (Invited) Hong Jin Kong KAIST, Korea	

16:30-16:55	Progress in high efficient operation of SG II UP facility (Invited) Panzheng Zhang Shanghai Institute of Optics and Fine Mechanics, CAS, China
16:55-17:20	Roadmap at Amplitude of 0.1 Hz kJ-class laser for Shock applications. (Invited) Franck Falcoz AMPLITUDE TECHNOLOGIES, France
17:20-17:45	The Apollon laser: commissioning results of the 1 PW beam line (Invited) Dimitrios Papadopoulos Laboratoire pour l'Utilisation des Lasers Intenses, CNRS, Ecole Polytechnique, CEA, Palaiseau, France, France
17:45-18:00	Precise temporal diagnostics for a kJ class petawatt laser (Oral) HPLSE2021-2021-000100 Xiaoping Ouyang Shanghai Institute of Optics and Fine Mechanics, CAS, China
18:00-18:15	The contrast enhancement of front end in SG-II laser Petawatt facility based on high-contrast ps-OPCPAs seed system (Oral) HPLSE2021-2021-000050 Xue Pan Shanghai Institute of Optics and Fine Mechanics, CAS, China
18:15-18:30	Impact of pump intensity fluctuations on the output performance of random fiber laser (Oral) HPLSE2021-2021-000050 Jun Ye National University of Defense Technology, China

Session 3.		 Xiexiu Room
TOPIC 2: HIGH POWER LASER SYSTEMS		 2021.04.16
President: Jixiong Pu, Huaqiao University, China		
08:00-08:25	Role of laser intensity on output limitation of high power nanosecond laser system (Invited) Mingying Sun Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China	
08:25-08:50	Status of the J-KAREN-P laser performance (Invited) Hiromitsu Kiriya National Institutes for Quantum and Radiological Science and Technology, Japan	
08:50-09:15	Stimulated Raman scattering effect in continuous-wave high power fiber lasers (Invited) Qirong Xiao Department of Precision Instruments, Tsinghua University, China	
09:15-09:40	Towards 2 μm high power ultrafast thin disk lasers (Invited) Yicheng Wang Ruhr-Universität-Bochum/Photonics and Ultrafast Laser Science (PULS), Germany	
09:40-09:55	Research on target alignment fiducials of high power laser facility (Oral) HPLSE2021-2021-000047 Weiheng Lin Shanghai Institute of Optics and Fine Mechanics, CAS, China; University of Chinese Academy of Science, China	
09:55-10:10	Coffee Break	
President: Mingying Sun, Shanghai Institute of Optics and Fine Mechanics, CAS, China		

10:10-10:35	Second harmonic generation of spatially partially coherent light pulses (Invited) Jixiong Pu Huaqiao University, China
10:35-11:00	Temporal contrast improvement by suppressing pre-pulses due to post-pulses and pencil-beams at SG-II-UP petawatt-picosecond laser beamline (Invited) Youen Jiang Shanghai Institute of Optics and Fine Mechanics, CAS, China
11:00-11:25	Pulse front tilt control using non-collimated beams in a single pass grating compressor (Invited) Goncalo Figueira Instituto Superior Tecnico, University of Lisbon, Portugal
11:25-11:50	TBA (Invited) Pengqian Yang Shanghai Institute of Optics and Fine Mechanics, CAS, China
11:50-12:15	Laser-plasma physics and particle acceleration @ the Centro de Laseres Pulsados (Invited) Luca Volpe Centro de laseres Pulsados, Spain
12:15-12:30	A compact 165 W, 1 MHz 12-ps Nd:YAG innoslab amplifier (Oral) HPLSE2020-2020-000113 Fayyaz Javed Beijing Institute of Technology, China

Session 4.		 Fucui Room
TOPIC 3: LASER COMPONENTS FOR HIGH POWER LASER		 2021.04.14
President: Hua Shen, Nanjing University of Science and Technology, China		
13:30-13:55	Damage contemplation of fused silica for high energy laser applications (Invited) Frank Nürnberg Heraeus Quarzglas - Optics, Germany	
13:55-14:20	High peak and average power delivery from Fully-Aperiodic Large-Pitch-Fiber lasers (Invited) Philippe ROY Xlim - CNRS - University of LIMOGES, France	
14:20-14:45	High-precision silicon-carbide space optical devices (Invited) Yong Yang Shanghai Institute of Ceramics, CAS, China	
14:45-15:00	A novel gas-jet target for polarized GeV laser-driven proton acceleration (Oral) HPLSE2020-2020-000015 Anna Huetzen Peter Grünberg Institut (PGI-6), FZ Jülich, Germany; Institut für Laser- und Plasmaphysik, HHU Düsseldorf, Germany	
15:00-15:15	Investigation of resonant fibre designs for high power capable broadband tunable filters (Oral) HPLSE2020-2020-000099 Michalis Zervas University of Southampton, United Kingdom	
15:15-15:30	Mitigation of simulated Raman scattering in fiber laser oscillator using long period fiber grating (Oral) HPLSE2020-2020-000114 Qihao Hu National University of Defense Technology, China	
15:30-15:45	Coffee Break	

Presider: Yong Yang, Shanghai Institute of Ceramics, CAS, China	
15:45-16:10	Meter-Scale Pulse-compression Gratings for High Power Laser system (Invited) Keqiang Qiu University of Science and Technology of China, China
16:10-16:35	Mitigation of stimulated Raman scattering in high-power continuous-wave oscillator utilizing special structure fiber gratings (Invited) Hua Shen Nanjing University of Science and Technology, China; University of California Los Angeles, United States
16:35-17:00	Progress of research and development of high power Yb doped LMA fiber in SIOM (Invited) Lili Hu Shanghai Institute of Optics and Fine Mechanics, China
17:00-17:15	Novel magneto-optical crystal CeF₃ for faraday rotator (Oral) HPLSE2020-2020-00057 Anhua Wu Shanghai Institute of Ceramics, CAS, China
17:15-17:30	Modulating linearly polarized light into a full Poincaré beam by stress-engineered optical element (Oral) HPLSE2021-2021-00052 Bowu Liu Tsinghua University, China

Session 4.		Fucui Room
TOPIC 3: LASER COMPONENTS FOR HIGH POWER LASER		2021.04.15
Presider: Yanqing Zheng, Ningbo University, China		
13:30-13:55	Research on the multi-exposure method to fabricate large scale pulse compression mosaic grating (Invited) Chaoming Li Soochow University, China	
13:55-14:20	Some developments on N31 and N51 high power Nd-phosphate laser glasses (Invited) Wei Chen Shanghai Institute of Optics and Fine Mechanics, CAS, China	
14:20-14:45	Growth and characterization of large aperture YCOB and Sm:YCOB crystals for application in high peak power lasers (Invited) Yanqing Zheng Ningbo University, China	
14:45-15:00	Optical properties and potential of LB4 for THz wave generation (Oral) HPLSE2021-2021-00092 Jingguo Huang Shanghai Institute of Technical Physics, CAS, China	
15:00-15:15	Characteristics of FBGs inscribed line-by-line using femtosecond laser (Oral) HPLSE2021-2021-00038 Hongye Li National University of Defense Technology, China	

15:15-15:30	Water-cooled deformable mirrors for high power beam correction (Oral) HPLSE2020-2020-000104 Vadim Samarkin Institute of Geosphere Dynamics, Russian Academy of Sciences, Moscow, Russia
15:30-15:45	Coffee Break
Presider: Wei Chen, Shanghai Institute of Optics and Fine Mechanics, CAS, China	
15:45-16:10	Approach for the full aperture thermal-lens-free HCAM laser (Invited) Ken-ichi Ueda Inst. Laser Science, UEC-Tokyo, Inst. Laser Engineering, Osaka Univ., Hamamatsu Photonics, Japan
16:10-16:35	Intelligent manufacturing equipment and process for high-power laser optics (Invited) Feng shi National University of Defense Technology, China
16:35-16:50	Fiber coupling of a 1.4 kW diode laser stack module emitting near 780 nm as high duty-cycle pulsed pump source (Oral) HPLSE2021-2021-000048 Marko Hübner, FBH, Germany

Session 5.		Yuancui Room
TOPIC 4: ADVANCED LASER TECHNOLOGIES AND APPLICATIONS		2021.04.14
Presider: Minglie Hu, Tianjin University, China		
13:30-13:55	Generation and application of ultrafast laser with high average power (Invited) Zhiyi Wei Institute of Physics, China	
13:55-14:20	Intelligent ultrafast fiber laser (Invited) Lilin Yi Shanghai Jiao Tong University, China	
14:20-14:45	Laser-ion generation from the perspective of a user facility (Invited) Vincent Bagnoud GSI-Darmstadt, Germany; Helmholtz Institute Jena	
14:45-15:00	Hundred-Watt-level all-fiber amplifier operating near 980 nm (Oral) HPLSE2020-2020-000033 Jianqiu Cao National University of Defense Technology, China	
15:00-15:15	27 W, 30 fs, 10 kHz, degenerated OPCPA system for water-window X-ray generation (Oral) HPLSE2020-2020-000047 Tianli Feng Max-Born-Institut, Germany; Shandong University, China	
15:15-15:30	Beam quality degradation analysis for spectral beam combining system of fiber laser with beam divergence and spectra distribution (Oral) HPLSE2021-2021-000012 Benjian Shen Laser Fusion Research Center, CAEP, China	

15:30-15:45	Coffee Break
Presider: Lilin Yi, Shanghai Jiao Tong University, China	
15:45-16:10	High power fiber femtosecond laser and its applications (Invited) Minglie Hu Tianjin University, China
16:10-16:35	Octave-spanning mid-infrared femtosecond OPA in ZGP pumped by a 2.4 micron Cr:ZnSe laser (Invited) Kyung-Han (Kyle) Hong Massachusetts Institute of Technology, United States
16:35-17:00	Remarkable temperature bandwidths of second-harmonic-generation in GdCOB and YCOB crystals (Invited) Zhengping Wang Institue of Crystal Materials, Shandong Univerisy, China
17:00-17:25	On the influence of the thermo-elasto-plastic phase on the laser pulse- ablator interaction dynamics in ICF studies (Invited) Michael Tatarakis, Technological Education Institute of Crete, Greece
17:25-17:40	Carrier to Envelope Phase (CEP) stable, femtosecond Cr:ZnSe laser in mid infrared (Oral) HPLSE2021-2021-000068 Gilad Marcus Hebrew University, Israel
17:40-17:55	Comparative study of mode instabilities in distributed side-coupled and end-coupled cladding-pumped high power fiber amplifiers (Oral) HPLSE2020-2020-000106 Rumao Tao Research Center of Laser Fusion, China Academy of Engineering Physics, China

Session 5.		Yuancui Room
TOPIC 4: ADVANCED LASER TECHNOLOGIES AND APPLICATIONS		2021.04.15
Presider: Guohai Situ, Shanghai Institute of Optics and Fine Mechanics, CAS, China		
13:30-13:55	Study on thermo-optic effect and mode instability characteristics of high-power fiber laser (Invited) Qihong Lou Shanghai Institute of Optics and Fine Mechanics, CAS, China	
13:55-14:20	Single-shot high-dynamic temporal and spatio-temporal characterizations and diagnostics (Invited) Thomas OKSENHENDLER ITEOX, France	
14:20-14:45	Functional laser surface texturing using interference-based methods - From small scale-structures to big impacts (Invited) Tim Kunze Fraunhofer-Institute for Material and Beam Technology IWS, Germany	
14:45-15:00	Influence of energy density on the structure and mechanical properties of GH5188 superalloy formed by laser melting deposition (Oral) HPLSE2021-2021-000082 Chen Liu Northeastern University, China	

15:00-15:15	Laboratory astrophysics investigations of matter accretion using laser-driven plasma flows propagating in ambient magnetic field. (Oral) HPLSE2021-2021-000024 Konstantin Burdonov LULI, Ecole Polytechnique, France
15:15-15:30	New Generation of Laser-driven X-ray Sources at ELI Beamlines (Oral) HPLSE2020-2020-000060 Jaroslav Nejdil ELI Beamlines, Institute of Physics CAS, Czech Republic
15:30-15:45	Coffee Break
Presider: Zhengping Wang, Shandong Univerisy, China	
15:45-16:10	Computational imaging: when optics meets deep learning (Invited) Guohai Situ Shanghai Institute of Optics and Fine Mechanics, CAS, China
16:10-16:35	Attosecond transient absorption spectroscopy of diatomic molecules at 400 eV (Invited) Jiro Itatani The University of Tokyo, Japan
16:35-17:00	Electromagnetic pulse generation in experiments on high power laser facilities (Invited Talk) Vladimir Tikhonchuk University of Bordeaux, France; ELI-Beamlines, Institute of Physics CAS, Dolní Břežany, Czech Republic
17:00-17:15	Time-Of-Flight methodologies with large-area diamond detectors for ion characterization in laser-driven experiments (Oral) Martina Salvadori Università di Roma La Sapienza, Italy
17:15-17:30	Transverse mode locking in microchip lasers (Oral) Zilong Zhang Beijing Institute of Technology, China

Session 5.		Yuancui Room
TOPIC 4: ADVANCED LASER TECHNOLOGIES AND APPLICATIONS		2021.04.16
Presider: Yulei Wang, Hebei university of technology, China		
08:30-08:55	Recent progress of Compact LAsER Plasma Accelerator (CLAPA) at Peking University (Invited) Chen Lin Peking University, China	
08:55-09:20	Giant micro-photonics for laser particle acceleration (Invited) Takunori Taira RIKEN SPring-8 Center, Japan	
09:20-09:45	TBA (Invited) Cheng Liu Shanghai Institute of Optics and Fine Mechanics, CAS, China	
09:45-10:00	Pulse width and repetition rate tunable, narrow-linewidth nanosecond all-fiber amplifier based on ultra-large-mode-area Yb-doped fiber (Oral) HPLSE2020-2020-000112 Min Yang Beijing University of Technology, China	
10:00-10:15	Coffee Break	
Presider: Chen Lin, Peking University, China		
10:15-10:40	Development of beam quality control in nanosecond-pulsed 100J laser system (Invited) Yulei Wang Hebei university of technology, China	
11:05-11:30	Spatio-temporal metrology of high-power ultrashort lasers (Invited) Fabien Quere CEA, France	

<h1>POSTER SESSION</h1>	
Lobby Yuanzhong Building 2021.04.13, 14:00-17:00	
Topic 1: High energy density physics	
HPLSE2020-2020-000030	Nanosecond laser-induced breakdown plasma radiation characteristics Yujia Dai ¹ ; Xingsheng Wang ¹ ; Shangyong Zhao ¹ ; Xun Gao ^{1*} 1.Changchun University of Science and Technology ¹
HPLSE2020-2020-000078	The interference in the electron-positron pair creation process by two parallel strong laser fields Chuanke Li ¹ ; Xianxian Zhou ¹ ; Miao Jiang ² ; Nanxing Lin ^{2*} ; Yingjun Li ^{2*} 1.China University of Mining & Technology-Beijing, state Key Laboratory for GeoMechanics and Deep Underground Engineering; 2.China University of Mining & Technology-Beijing, School of Science
HPLSE2021-2021-000056	Numerical simulation of Z-pinch magnetized liner inertial confinement fusion with MULTI code Chen Shijia ¹ ; Ma Yanyun ^{1*} 1.National University of Defense Technology
HPLSE2021-2021-000060	Optimization of x-ray emission from triple-foil target irradiated with counter-propagate laser Yun Yuan ^{1*} 1.National University of Defense Technology
HPLSE2021-2021-000061	Analysis of complex interferometry for precise characterization of quasi-axisymmetrical plasmas Iurii Kochetkov ^{1*} ; Tadeusz Pisarczyk ² ; Tomasz Chodukowski ² ; Agnieszka Zaras-Szydłowska ² ; Zofia Rusiniak ² ; Roman Dudzak ³ ; Jan Dostal ³ ; Michal Krupka ³ ; Milan Kalal ³ ; Andrey Kuznetsov ¹ ; Philipp Korneev ^{1,4} 1.National Research Nuclear University MEPhI; 2.Institute of Plasma Physics and Laser Microfusion; 3.Institute of Plasma Physics ASCR; 4.P.N. Lebedev Physical Institute of RAS
HPLSE2021-2021-000066	Toward the observation of interference effects in nonlinear Compton scattering Suo Tang ^{1*} 1.Department of Physics, College of Information Science and Engineering, Ocean University of China
HPLSE2021-2021-000070	Research on fractal and angular momentum of electromagnetic solitons Zhongpeng Li ¹ ; Tian Ye ^{1*} 1.Shanghai Institute of Optics and Fine Mechanics, CAS
HPLSE2021-2021-000072	Angular Distribution Simulation of Neutrons Produced by Ultra-intense Ultra-short Laser Shooting on Polyethylene +Lithium/Beryllium Target Jiangtao Zhao ¹ ; Qian Zhang ¹ ; Zhenglin Huang ¹ ; Bo Cui ² ; Shukai He ² ; Tieshan Wang ^{1*} 1.School of Nuclear Science and Technology, Lanzhou University; 2.Science and Technology on Plasma Physics Laboratory, Laser Fusion Research Center, China Academy of Engineering Physics
HPLSE2021-2021-000075	On the higher-order Kerr effect including the uncertainties of their nonlinear coefficients Shao-jun Ji ¹ ; Xiao-ming Zhou ¹ ; Hai-tao Wang ² ; Jing-hui Zhang ² ; Cheng-yu Fan ^{2*} 1.University of Science and Technology of China; 2.Key Laboratory of Atmospheric Optics, Anhui Institute of Optics and Fine Mechanics

HPLSE2021-2021-000085	Optimization of a laser plasma based X-ray source according to WDM absorption spectroscopy requirements A.S. Martynenko ^{1*} ; S.A. Pikuz ^{1,2} ; I.Yu. Skobelev ^{1,2} ; S.N. Ryazantsev ^{1,2} ; C.D. Baird ³ ; N. Booth ⁴ ; L.N.K.Doehl ³ ; P. Durey ³ ; D. Farley ³ ; R. Kodama ^{5,6} ; K. Lancaster ³ ; P. McKenna ⁷ ; C.D. Murphy ³ ; C. Spindloe ⁴ ; T.A. Pikuz ^{1,5} ; N. Woolsey ³ 1.Joint Institute for High Temperatures of Russian Academy of Sciences; 2.National Research Nuclear University MEPhI; 3.York Plasma Institute, The University of York; 4.Central Laser Facility, STFC Rutherford Appleton Laboratory; 5.Open and Transdisciplinary Research Initiative, Osaka University; 6.Institute of Laser Engineering, Osaka University; 7.Department of Physics, SUPA, University of Strathclyde
HPLSE2021-2021-000091	Method for high accuracy wavelength measurements of middle-Z ions spectral lines emitted by laser plasma of mineral targets. Sergey Ryazantsev ^{1,2*} ; I. Yu. Skobelev ^{2,1} ; A.S. Martynenko ² ; E.D. Filippov ^{3,2} ; M.D. Mishchenko ^{1,2} ; M. Krüs ⁴ ; O. Renner ^{4,5,6} ; S.A. Pikuz ^{2,1} 1.National Research Nuclear University MEPhI; 2.Joint Institute for High Temperatures of the Russian Academy of Sciences (JIHT RAS); 3.Federal Research Center Institute of Applied Physics of the Russian Academy of Sciences; 4.Laser Plasma Department, Institute of Plasma Physics of the CAS; 5.Department of Radiation and Chemical Physics, Institute of Physics of the CAS; 6.ELI-Beamlines, Institute of Physics of the CAS
HPLSE2021-2021-000093	High efficiency detection of high power laser-driven neutron induced by nuclear reaction Vincent Lelasseux ^{1*} ; Julien Fuchs ¹ ; Par-Anders Soderstrom ² ; Florin Negoita ² ; Marius Gugiu ² 1.LULI, Ecole Polytechnique; 2.ELI NP
HPLSE2021-2021-000125	Over 100 T pulsed magnetic fields produced by ultraintense picosecond laser irradiating capacitor-coil target Weiwu Wang ¹ ; Yuqiu Gu ^{1*} 1.Laser Fusion Research Center, China Academy of Engineering Physics
Topic 2: High power laser systems	
HPLSE2020-2019-000019	A four-pass MOPA laser with tunable pulse width from sub-nanosecond to nanosecond Yajiang Li ¹ ; Jianguo Xin ^{2*} 1.School of Information and Electronics, Beijing Institute of Technology; 2.Beijing Institute of Technology
HPLSE2020-2020-000036	The study of frequency domain optical parametric amplification technology Qi Xiao ¹ 1.Key Laboratory of High Power Laser and Physics, Shanghai Institute of Optics and fine Mechanics, Chinese Academy of Science
HPLSE2020-2020-000052	A novel method of dispersion evaluation for ultra-short pulse Jie Mu ^{1*} ; Xiao Wang ¹ ; Yanlei Zuo ¹ ; Xiaoming Zeng ¹ ; Bilong Hu ¹ ; Wei Li ¹ ; Xiaodong Wang ¹ ; Zhaohui Wu ¹ ; Jingqin Su ¹ 1.Laser Fusion Research Center, China Academy of Engineering Physics
HPLSE2020-2020-000071	Simulation of coherent beam combining for four-channel femtosecond pulses Yan Liang ^{1*} 1.Shanghai Institute of Optics and Fine Mechanics
HPLSE2020-2020-000094	Detection technology of femtosecond laser beam quality based on the Gauss beam Abudurexiti ^{1*} 1.Xinjiang University

HPLSE2020-2020-000095	<p>Research on the contamination control technology of disk amplifier Yangshuai Li¹; Yanli Zhang¹; Bingyan Wang¹; Panzheng Zhang¹; Shenlei Zhou¹; Weixin Ma²; Jianqiang Zhu¹ 1.Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences; 2.Shanghai Institute of laser plasma, Chinese Academy of Engineering Physics</p>
HPLSE2020-2020-000100	<p>Multispectral wavefront sensor for Petawatt class laser systems spatio-temporal characterization Lucas Ranc¹; Dimitrios Papadopoulos^{1*} 1.LULI</p>
HPLSE2020-2020-000124	<p>Theoretical study on the amplified spontaneous emission in an end-pumped cesium vapor laser Guofei An¹; Jiao Yang¹; Jiawei Guo¹; Juhong Han¹; He Cai¹; Xiaoxu Liu¹; Kepeng Rong¹; Qinqin Li¹; You Wang^{1*} 1.Southwest Institute of Technical Physics</p>
HPLSE2021-2021-000011	<p>Fourth harmonic generation and electro-optic coefficient measurement of K(H1-xDx)2PO4 crystal based on the voltage-tuning phase matching Ziming Sun^{1*}; Zijian Cui^{1*}; Dean Liu^{1*}; Jianqiang Zhu¹ 1.Shanghai Institute of Optics and Fine Mechanics, China</p>
HPLSE2021-2021-000033	<p>Quantizing the coherent polarization beam combination from temporal, spatial and spectral domains Yunchen Zhu¹; Pingxue Li^{1*}; Chunyong Li²; Luo Wang¹; Chuanfei Yao¹; Xi Zhang¹; Shun Li¹; Yu Zhou¹ 1.Institute of Ultrashort Pulsed Laser and Application, Faculty of Materials and Manufacturing, Beijing University of Technology; 2.Department of Physics, Durham University</p>
HPLSE2021-2021-000049	<p>Modeling of hydrodynamic and thermal effects for a 1J/10Hz direct- liquid-cooled split-disk Nd:glass laser amplifier Shengzhe Ji^{1,2*}; Wenfa Huang^{1*}; Long Pan^{1,2}; Jiangfeng Wang¹; Xinghua Lu¹; Wei Fan¹; Xuechun Li^{1*} 1.Key Laboratory of High Power Laser and Physics, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, China; 2.Center of Materials Science and Optoelectronics Engineering, University of Chinese Academy of Sciences., China</p>
HPLSE2021-2021-000055	<p>Research of amplified spontaneous emission and thermo-optic effects in a diode pumped 100J/10Hz multi-slab Nd:glass laser amplifier Xiaoqin Wang^{1*} 1.National Laboratory on High Power Laser and Physics</p>
HPLSE2021-2021-000065	<p>Chemical non-chain HF(DF) lasers – new applications Sergey Kazantsev^{1,2*}; Sergei Podlesnikh^{2,3} 1.Moscow Polytechnic University; 2.MTUCl; 3.Prokhorov General Physics Institute of the Russian Academy of Sciences</p>
HPLSE2021-2021-000076	<p>Optimum support scheme with fringe moment on the large clear aperture of transmitting mirror Zhiyuan Ren^{1*} 1.Key Laboratory on High Power Laser and Physics, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences</p>
HPLSE2021-2021-000080	<p>A 10kW laser comprehensive parameters measurement technique based on integrating sphere Yonghao Tian^{1*}; Yunfeng Ma^{1*}; Fang Bai¹; Wang Cheng¹; Guangyan Guo¹; Sinan Zhang¹; Chenxuan Yin¹; Peng Zhao¹; Nan Jiang¹; Zhongwei Fan¹ 1.Aerospace Information Research Institute, Chinese Academy of Sciences, Beijing</p>

HPLSE2021-2021-000162	<p>Research and analysis of the co-design of continuous phase plate and lens array for beam smoothing Shouying Xu¹ 1.Shanghai Institute of Optics and Fine Mechanics, China</p>
Topic 3: Laser components for high power laser	
HPLSE2020-2019-000017	<p>Research on Laser Charging High Efficiency Solar Cell based on Interconnect Technology Mengqi Shi^{1*}; Dengpeng Jiang¹; LinJie Bi¹; Shuhui Chen¹ 1.Shanghai Institute of Space Power-sources</p>
HPLSE2020-2019-000023	<p>Investigating the defects of KDP crystals irradiated by different laser fluences with photoluminescence spectra Xiangcao Li¹; Liu Baoan¹; Ju Xin^{1*} 1.University of Science and Technology Beijing"</p>
HPLSE2020-2020-000029	<p>19×1 high power pump combiner with large output core diameter Hui Zhang¹; Chengmin Lei¹; Zhixian Li¹; Zefeng Wang^{1,2}; Zilun Chen^{1,2*} 1.College of Advanced Interdisciplinary Studies, National University of Defense Technology; 2.Hunan Provincial Key Laboratory of High Energy Laser Technology"</p>
HPLSE2020-2020-000049	<p>Progress on the Multi-aperture Bonding Technology for Materials Bingyan Wang^{1*}; Jianqiang Zhu¹; Shenlei Zhou¹; Yangshuai Li¹; Haiyuan Li¹; Xiaohong Tan¹; Xu Zhang¹ 1.Shanghai institute of optics and fine mechanics, Chinese academy of sciences"</p>
HPLSE2020-2020-000051	<p>Analysis and mitigation of final optics damage caused by continuous phase plate Hongchang Wang¹; Zhaoyang Jiao^{1*}; Rong Wu¹; Mingying Sun¹; Jianqiang Zhu¹ 1.Shanghai Institute of Optics and Fine Mechanics"</p>
HPLSE2020-2020-000058	<p>Research and Development on Laser Heating Petral Growth Technology and Growth of Single Crystal fibers Anhua Wu^{1*} 1.Shanghai Institute of Ceramics, CAS"</p>
HPLSE2020-2020-000064	<p>Tight focusing characteristics of laser vector field formed by off-axis parabolic mirror in high energy laser system Xiahui Zeng^{1*} 1.Minjiang University"</p>
HPLSE2020-2020-000069	<p>High-efficiency all-fiber (6+1)×1 pump and signal combiner for high power fiber lasers Yu Liu^{1*}; Shan Huang¹; Rumao Tao¹; Wenjie Wu¹; Jianjun Wang¹ 1.Laser Fusion Research Center, China Academy of Engineering Physics"</p>
HPLSE2020-2020-000076	<p>The process of melting and recrystallization in laser-induced damage of fused silica Chunyan Yan^{1*}; Ji Rui¹; Renhong Zhao¹; Xucong Zhou¹; Xin Ju^{2*} 1.Wei Fang Medical University; 2.University of Science and Technology Beijing"</p>
HPLSE2020-2020-000088	<p>High-power fiber laser oscillator using chirped and tilted fiber Bragg gratings for suppression of stimulated Raman scattering Tian Xin¹; Wang Meng¹; Zhao Xiaofan¹; Rao Binyu¹; Wang Zefeng^{1*} 1.College of Advanced Interdisciplinary Studies, National University of Defense Technology"</p>
HPLSE2020-2020-000101	<p>Laser induced damage threshold tests for ultrafast optics performed in vacuum with centimetric size beam in a 20fs regime Antoine Fréneaux^{1*}; Dimitrios Papadopoulos^{1*} 1.LULI"</p>

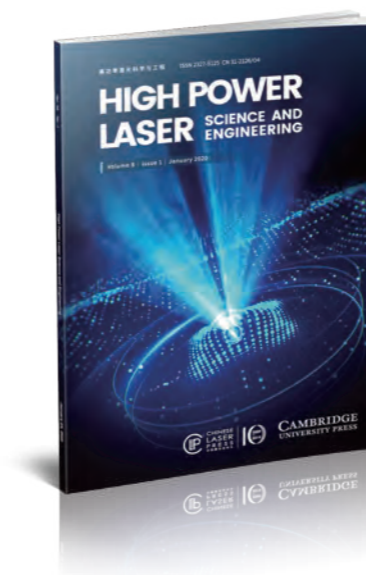
HPLSE2021-2021-000019	<p>Experimental study on removal of antireflection sol-gel SiO₂ coating of fused silica assisted by ion beam etching Yaoyu Zhong^{1;2}; Ci Song^{1;2}; Yifan Dai^{1;2*}; Feng Shi^{1;2}; Xiaodong Zhang^{1;2}</p> <p>1.Laboratory of Science and Technology on Integrated Logistics Support, College of Intelligence Science and Technology, National University of Defense Technology; 2.Hunan Key Laboratory of Ultra-Precision Machining Technology"</p>
HPLSE2021-2021-000028	<p>Fabrication of high-power hollow-core fiber end-cap Yulong Cui¹; Xinyu Ye¹; Wei Huang¹; Zhiyue Zhou¹; Zilun Chen¹; Zefeng Wang^{1*}</p> <p>1.National university of defense technology"</p>
HPLSE2021-2021-000030	<p>Analysis of pump coupling efficiency of side-pumping combiner by tapered-fused method Zhixian Li¹; Fu Min¹; Zilun Chen^{1*}; Wang Zefeng^{1*}; Chen Jinbao¹</p> <p>1.National University of Defense Technology</p>
HPLSE2021-2021-000036	<p>Demonstration of SRS filtering at the output of 2kW fiber laser by CTFBG Xiaofan Zhao¹; Meng Wang^{1;2;3}; Xin Tian¹; Qihao Hu¹; Zefeng Wang^{1;4;3}</p> <p>1.College of Advanced Interdisciplinary Studies, National University of Defense Technology; 2.State Key Laboratory of Pulsed Power Laser Technology; 3.Hunan Provincial Key Laboratory of High Energy Laser Technology; 4.State Key Laboratory of Pulsed Power Laser Technology"</p>
HPLSE2021-2021-000040	<p>A quantitative method of Foucault test and its instrument realization in optical testing Xiang Hua^{1*}; Jianqiang Zhu²; Xiang Jiao²</p> <p>1.University of Chinese Academy of Sciences; 2.Shanghai institute of optics and fine mechanics"</p>
HPLSE2021-2021-000041	<p>Weak reflectivity measurement of output-coupling FBG based on Fabry-Perot cavity inscribed by femtosecond laser Qiushi Qin¹; Meng Wang^{2;3;4}; Binyu Rao¹; Zefeng Wang^{1;3;4*}</p> <p>1.College of Advanced Interdisciplinary Studies, National University of Defense Technology; 2.College of Advanced Interdisciplinary Studies, National University of Defense Technology; 3.State Key Laboratory of Pulsed Power Laser Technology; 4.Hunan Provincial Key Laboratory of High Energy Laser Technology"</p>
HPLSE2021-2021-000042	<p>Precise measurement for reflectivity of weak reflection FBG by grating scale Qiushi Qin¹; Meng Wang^{1;2;3}; Xiaofan Zhao¹; Binyu Rao¹; Zefeng Wang^{1;2;3*}</p> <p>1.College of Advanced Interdisciplinary Studies, National University of Defense Technology; 2.State Key Laboratory of Pulsed Power Laser Technology; 3.Hunan Provincial Key Laboratory of High Energy Laser Technology"</p>
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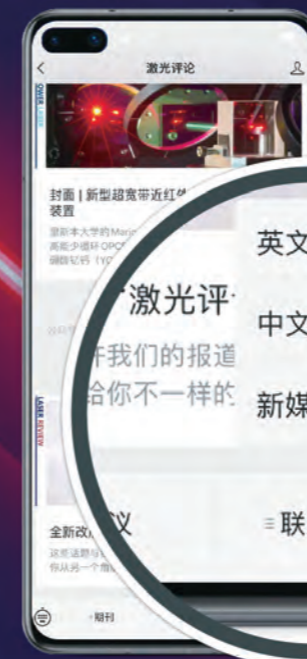
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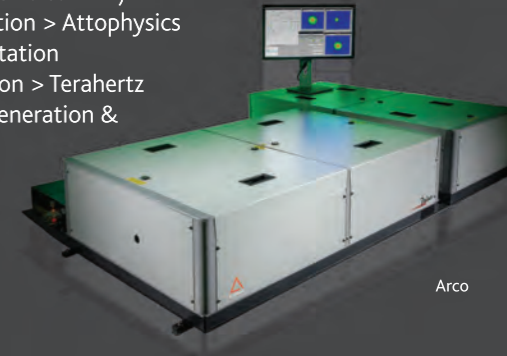
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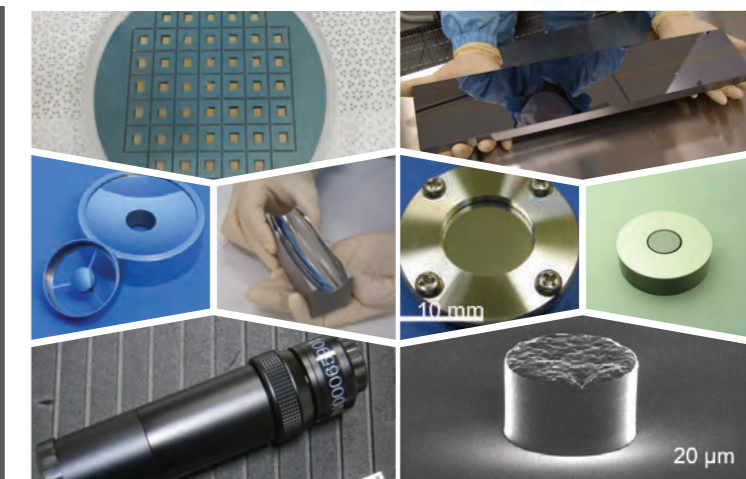
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