

第十六届国际激光加工技术研讨会

16th International Laser Processing and Systems Conference (LPC 2021)

中国 上海 2021年3月5-7日

Mar 5-7, 2021 Shanghai China

3月5日: 大会主题报告 线上会议 13:30-17:30

March 5: Plenary Session Online Conference, 13:30-17:30

3月6日: 专题会场一 线上会议 09:30-11:50

March 6: Conference 1 Online Conference, 09:30-11:50

3月6日: 专题会场二 线上会议 13:30-15:50

March 6: Conference 2 Online Conference, 13:30-15:50

3月7日: 专题会场三 线上会议 9:30-11:50

March 7: Conference 3 Online Conference, 9:30-11:50

3月7日: 专题会场四 线上会议 13:30-17:30

March 7: Conference 4 Online Conference, 13:30-17:30

大会荣誉主席:

Honorary chairman:

Reinhart Poprawe 教授 德国弗劳恩霍夫激光技术研究所/亚琛工业大学激光技术研究院
Prof. Emeritus Reinhart Poprawe, Fraunhofer Institute for Laser Technology ILT /
RWTH Aachen University Chair for Laser Technology, Germany



大会主席:

General Conference Chairs:

王又良 研究员 中国光学学会激光加工专业委员会
Prof. Youliang Wang, Chinese Optical Society - Laser Processing Committee

Andreas Ostendorf教授

德国波鸿鲁尔大学副校长

美国激光学会前主席

Prof. Dr. Andreas Ostendorf

Vice Rector for Research, Ruhr-Universität Bochum, Germany

Former President of Laser Institute of America (LIA)



Executive Conference Chairs:
 王华明 院士 北京航空航天大学
 Academician, Prof. Huaming Wang, Beijing University of Aeronautics and Astronautics
 陆永枫 教授 美国内布拉斯加林肯大学
 Prof. Yongfeng Lu, University of Nebraska Lincoln USA
 Constantin Häfner 教授 德国弗劳恩霍夫激光技术研究所所长
 Prof. Constantin Häfner, Director of the Fraunhofer Institute for Laser Technology ILT, Germany
 顾冬冬 教授 南京航空航天大学
 Prof. Dongdong Gu, Nanjing University of Aeronautics and Astronautics
 陈树君 教授 北京工业大学
 Prof. Shujun Chen, Beijing University Of Technology

2021年3月5日 / 线上会议
 Mar 5, 2021/ Online Conference

大会开幕式
 OPENING CEREMONEY

主持人: 顾冬冬 教授 南京航空航天大学
 Host: Prof. Dongdong Gu, Nanjing University of Aeronautics and Astronautics

时间 Time	报告题目 Topic	报告人 Speaker
13:00-13:10	慕尼黑博览欢迎致辞 Welcome Speech by Messe Muenchen	Reinhard Pfeiffer 博士, 副总裁, 慕尼黑博览集团 Dr. Reinhard Pfeiffer, Deputy CEO, Messe München
13:10-13:20	大会主席欢迎致辞 Welcome Speech by General Conference Co-Chair	Andreas Ostendorf 教授 德国波鸿鲁尔大学副校长 美国激光学会前主席 Prof. Dr. Andreas Ostendorf Vice Rector for Research, Ruhr-Universität Bochum, Germany
13:20-13:30	大会主席欢迎致辞 Welcome Speech by General Conference Co-Chair	王又良 研究员, 中国光学学会激光加工专业委员会 主任 Prof. Youliang Wang, President, Chinese Optical Society - Laser Processing Committee

大会主题报告
 PLENARY LECTURES

主持人: 张文武教授, 中科院宁波材料技术与工程研究所研究员
 Prof. Wenwu Zhang, Materials Technology & Engineering, CAS
 宋立军教授, 湖南大学机械与运载工程学院教授
 Professor of College of Mechanical and Vehicle Engineering, Hunan University

时间 Time	报告题目 Topic	报告人 Speaker
13:30-14:00	TBD	Constantin Häfner 教授, 德国弗劳恩霍夫激光技术研究所所长 Prof. Constantin Häfner Director of the Fraunhofer Institute for Laser Technology ILT, Germany
14:00-14:30	高掺杂浓度和结晶度的掺硼金刚石的生长 Growth of Boron-Doped Diamond with High Doping Concentration and Crystallinity	陆永枫教授, 美国内布拉斯加林肯大学 (UNL) Lott 主席教授 Prof. Yongfeng Lu, Lott Distinguished Professor of Engineering at the University of Nebraska-Lincoln (UNL)

14:30-15:00	TBD	Andreas Ostendorf教授 德国波鸿鲁尔大学副校长 美国激光学会前主席 Prof. Dr. Andreas Ostendorf Vice Rector for Research, Ruhr-Universität Bochum, Germany
15:00-15:30	Scalable Microprocessing	Dr. Burkhard Fechner Business Development Manager Coherent LaserSystems GmbH & Co. KG
15:30-16:00	基于单管芯片密集光谱合束技术的高亮度高效率光纤耦合模块 High brightness and high efficiency fiber coupled module based on single emitter dense wavelength beam combining technology	王俊 苏州长光华芯光电技术股份有限公司 首席技术官兼常务副总 Mike.Wang Suzhou Everbright Photonics Co., Ltd Vice General Manager & CTO
16:00-16:30	Laser solution development between technology push and market demands 从技术驱动和市场需求的视角展望激光解决方案的发展	Ralf Kimmel, 通快激光事业部全球产品管理和市场 总监 Ralf Kimmel, Director Product Management and Marketing, TRUMPF Laser Technology
16:30-17:00	Kerr-lens mode-locked 2 μ m thin-disk oscillators and their applications in MIR generation	张金伟, 教授, 华中科技大学, 光学与电子信息学 院 Jinwei Zhang, Professor, Huazhong University of Science and Technology, School of Optics and Electronics Information
17:00-17:30	激光增材制造的数值模拟 Numerical Simulation for Laser Additive Manufacturing Process	林鑫, 西北工业大学金属高性能增材制造与创新设 计工业和信息化部重点实验室主任 Xin Lin, Key Laboratory of Metal High Performance Additive Manufacturing and Innovative Design, MIIT China, Northwestern Polytechnical University

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专题会场 1 激光表面改性增材制造技术
PARALLEL SESSION I LASER SURFACE MODIFICATION AND ADDITION MANUFACTURING TECHNOLOGY

主持人: 宋立军 湖南大学机械与运载工程学院教授
Professor of College of Mechanical and Vehicle Engineering, Hunan University

时间 Time	报告题目 Topic	报告人 Speaker
09:30-09:50	激光复合电化学表面改性技术研究进展 Research progress of laser-electrochemical surface modification technology	张群莉, 教授, 浙江工业大学激光先进制造研究院 副院长 Prof.Qunli Zhang, Deputy Dean, Institute of Laser Advanced Manufacturing, Zhejiang University of Technology
09:50-10:10	激光增材制造技术在泵阀上应用现状及发展趋势 Application status and development trend of laser additive manufacturing technology in pump and valve	吴旭浩, 总经理, 浙江久恒光电科技有限公司 Xuhao Wu, General Manager, Highlaser Opto- electronic technology CO. LTD
10:10-10:30	激光定向能量沉积过程中扫描策略对残余应力和变形的影响 数值模拟研究 Numerical research of the influence of scanning strategy on residual stress and deformation in LENS	王靖升, 博士生, 华中科技大学 Jingsheng Wang, PhD, Huazhong University of Science and Technology

10:30-10:50	生物钛材料激光3D打印所面临的几个主要问题及应对策略浅析 Challenges and Opportunities in laser additive manufacturing of biomedical Ti and Ti alloys	严明 研究员,深圳市航空发动机3D打印粉材工程实验室主任,南方科技大学 Dr. Ming Yan, Associate Professor/Director of Shenzhen Key Engineering Lab,Southern University of Science and Technology
10:50-11:10	多功能仿生热防护结构的激光增材制造及性能评价 Laser Additive Manufacturing and Performance Evaluation of Multi-functional Bio-inspired Integrated Thermal Protection Structures	林开杰,南京航空航天大学 Kaijie Lin, Nanjing University of Aeronautics and Astronautics
11:10-11:30	激光同轴送粉沉积成形粉末束流关键特征研究 Research on key characteristics of coaxial powder stream in laser direct metal deposition	杨义成, 工程师, 哈尔滨焊接研究院有限公司 Yicheng Yang,engineer,Harbin Welding Institute Limited Company
11:30-11:50	具有出色防结冰和疏冰性能的超疏水材料 Superhydrophobic surfaces with excellent anti-icing and icephobic performance	潘瑞, 副教授, 北京工业大学 A.P. Rui Pan, Beijing University of Technology

午休 Lunch Break

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专题会场 2 激光焊接技术
PARALLEL SESSION II LASER WELDING TECHNOLOGY

主持人: 陈树君 教授 北京工业大学
Host:Prof. Shujun Chen,Beijing University Of Technology

时间 Time	报告题目 Topic	报告人 Speaker
13:30-13:50	扫描激光-电弧复合焊接技术与机理研究 Research on oscillating laser beam - arc hybrid welding	高明, 教授, 华中科技大学武汉光电国家研究中心 Prof.Ming Gao, Huazhong University of Science and Technology, Wuhan National Laboratory for Optoelectronics
13:50-14:10	高功率蓝激光在先进制造领域的应用现状 Current status of applying the high power blue laser in material processing	王洪泽 副教授, 上海交通大学 A.P.Hongze Wang, Shanghai Jiao Tong University
14:10-14:30	皮秒激光切割玻璃及微焊接 Glass cutting and micro-welding with picosecond lasers	张红岩 应用工程师, Spectra-Physics 光谱物理——MKS 万机仪器集团 Nancy Zhang Application Engineer of MKS/Spectra-Physics
14:30-14:50	阵列脉冲激光驱动GMA熔滴过渡: 一种新的焊缝成形控制能力 Towards A New Controllability of Bead Geometry: Arrayed Laser Pulse Driven GMA Droplet Transfer	肖珺, 副教授, 北京工业大学 Jun Xiao, Associate Professor, Beijing University of Technology

14:50-15:10	选区激光熔化, 数值模拟, 温度场, 速度场, 成形机制 Selective laser melting, numerical simulation, temperature field, velocity field, forming mechanism	戴冬华, 讲师, 南京航空航天大学 Lec.Donghua Dai, Nanjing University of Aeronautics and Astronautics
15:10-15:30	振荡激光-电弧复合焊接熔池动力学研究 Molten pool dynamics in laser-arc hybrid welding with beam oscillation	石林 博士研究生, 华中科技大学 Lin Shi Doctoral candidate of Huazhong University of Science & Technology
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专题会场 3 激光精密加工 PARALLEL SESSION III LASER PRECISION PROCESSING		
主持人: 谢小柱, 教授, 广东工业大学 Host: Prof.Xiaozhu Xie, Guangdong University of Technology		
时间 Time	报告题目 Topic	报告人 Speaker
09:30-09:50	激光微细加工过程中的声发射检测技术研究 Acoustic Emission Detection Technology in Laser Micromachining	谢小柱, 教授, 广东工业大学 Prof.Xiaozhu Xie, Guangdong University of Technology
09:50-10:10	激光自组装功能微纳结构 Laser Assembly of vertically aligned single-crystalline functional nanostructures	范丽莎 教授, 浙江工业大学 Prof.Lisha Fan ,Zhejiang University of Technology
10:10-10:30	激光精密织构功能表面及其应用 Laser textured functional surfaces and their applications	刘顿, 教授, 湖北工业大学 Prof.Dun Liu, Hubei University of Technology
10:30-10:50	精造之光—高品质超快激光在精细加工中的应用 Ultrafast Laser for Micro-processing	生卫东, 博士, 中国区销售总监, NKT Photonics Weidong Sheng, Sales Director, NKT Photonics
10:50-11:10	高功率皮秒紫外激光切割柔性可折叠OLED材料 New flexible and foldable OLED display materials cut with high power picosecond UV lasers	黄显东 应用工程师, Spectra-Physics 光谱物理——MKS 万机仪器集团 Tony Huang Application Engineer of MKS/Spectra-Physics
11:10-11:30	激光直接标识铝合金表面粗糙度及其形成机理的研究 Study of surface roughness and forming mechanism of laser direct part marking on Aluminum alloy	杜远超, 研发工程师, 上海激光所 Yuanchao Du,R&D Engineer,Shanghai Institute of Laser Technology

11:30-11:50	飞秒激光精密构建微纳仿生结构调控表面润湿性研究 Precise fabrication of bioinspired micro/nano structures with unique surface wettability by femtosecond laser	代如原， 硕士研究生， 西南科技大学 Ruyuan Dai, Master degree candidate of Southwest University of Science and Technology
11:50-12:10	微纳仿生结构的精密3D打印构建与高性能微滴操控 Precision 3D printing construction of micro/nano bionic structures for high-performance droplet manipulation	李耀霞， 硕士研究生， 西南科技大学 Yaoxia Li, Master degree candidate of Southwest University of Science and Technology
午休 Lunch Break		
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专题会场 4 先进激光技术及创新应用 PARALLEL SESSION IV ADVANCED LASER TECHNOLOGIES AND INNOVATIVE APPLICATIONS		
主持人：唐霞辉，教授，华中科技大学，激光加工国家研究中心 Host: Prof. Xiahui Tang, Huazhong University of Science and Technology, National Engineering Research Center for Laser Processing		
13:30-13:50	大能量高重频纳秒脉冲激光器及激光清洗 High Energy and Repetition Nanosecond Pulse Laser and its Cleaning	林学春 研究员 中国科学院半导体研究所 Prof. XueChun Lin, Institute of Semiconductors, CAS
13:50-14:10	大功率蓝光半导体激光及其应用 High-power blue diode laser and its application	唐霞辉，教授，华中科技大学，激光加工国家研究中心 Prof. Xiahui Tang, Huazhong University of Science and Technology, National Engineering Research Center for Laser Processing
14:10-14:30	新型紫外至中红外非线性频率转换光源 Novel Nonlinear Frequency Conversion Sources From UV To The Mid-Infrared	韦俊雄，高级光学工程师，武汉华日激光股份有限公司 Junxiong Wei, Senior Optical Engineer, Wuhan Huaray Precision Laser Co., Ltd.
14:30-14:50	实现绿色出行-激光焊接和先进的传感器技术助力电动汽车发展 Enabling E-Mobility - With laser welding and sophisticated sensor technology to guaranteed quality	Dr. Markus Kogel-Hollacher Head of Dept. R&D Projects, Precitec GmbH & Co. KG
14:50-15:10	聚焦激光先进制造 Laser drilling, EHLA, Application	洪臣，董事长，亚琛联合科技有限责任公司 Chen Hong, chairman, ACUNITY GmbH
15:10-15:30	激光光场调控、增材制造、激光隐形切割 Laser light field control, Laser additive manufacturing, Laser stealth cutting	秦应雄，教授，华中科技大学，激光技术系 Prof. Yingxiong Qin, Huazhong University of Science and Technology, Department of Laser Technology

15:30-15:50	超快光纤激光自组装脉冲动力学及应用研究 Research on the dynamics and applications of self-assembled pulses in ultrafast fiber lasers	罗亦杨，副教授，重庆大学 A.P. Luo Yiyang, Chongqing University
15:50-16:10	激光微纳加工技术及应用 Laser Micro-nano machining Technology and Application	卢飞星，技术总监，武汉华工激光工程有限责任 Feixing Lu, CTO of Wuhan Huagong Laser Engineering Co., Ltd.
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