

12th International Conference on Photoexcited Processes and Applications

ICPEPA-12

September 18 – 22, 2023

Pan Pacific Suzhou, No. 259, Xinshi Road, Suzhou, China

<https://www.researching.cn/conference/ICPEPA-12>

Program

Conference Chairs:

Ya Cheng

Shanghai Institute of Optics and Fine Mechanics, CAS, China

Yunquan Liu

Peking University, China

Yangjian Cai

Shandong Normal University, China

Welcome to ICPEPA-12

On behalf of the organizing committee, it is our great pleasure to welcome you to the 12th International Conference on Photoexcited Processes and Applications (ICPEPA-12), to be held from September 18-22, 2023 in Suzhou, China. ICPEPA has been initiated at the 1993 Conference in Sendai, Japan and has been strengthened at successive Conferences in Jerusalem, Israel, 1995, Strasbourg, France, 1999, Lecce, Italy, 2004, Charlottesville, USA, 2006, Sapporo, Japan, 2008, Copenhagen, Denmark, 2010, Rochester, USA, 2012, Matsue, Japan, 2014, Brasov, Romania, 2016, Vilnius, Lithuania, 2018, now ICPEPA comes to China for the first time, where business of lasers and laser applications is rapidly growing.

ICPEPA-12 continues the tradition inherited from past Conferences and involves the topics ranging from fundamental laser-material interactions, theory and modeling to applications with nanoparticles and nanophotonics as well as new trends in photo excitations. The conference intends to create an atmosphere for scientific presentations at the forefront of the field and an informal exchange of ideas in a relaxing environment.

The technical program for the four-day event includes 1 plenary talk, 15 invited talks, 57 oral presentations, and 72 poster presentations involving participants from ten countries. In addition to these technical sessions, we will organize social events including banquet and excursion for promoting friendship between the participants. We are convinced that ICPEPA-12 will stimulate fruitful discussion and useful exchanges.

The conference site, Suzhou, is a city with a long history of more than 2500 years on the lower reaches of the Yangtze River and on the shores of Taihu Lake in the province of Jiangsu, China. The city is praised as “a paradise on earth” for its elegant classical gardens, exquisite water towns, charming natural scenery and splendid history and culture.

Finally, we would like to express our sincere thanks to all the presenters, in particular the plenary and invited speakers, the conference participants, and our sponsors. We would also like to thank the members of each committee, and the secretariat. Thank you very much for your participation, and we sincerely hope you enjoy your time here in this fascinating city.

Suzhou, China, September 2023

Conference Chairs of ICPEPA-12



Ya Cheng
SIOM, CAS



Yunquan Liu
Peking University



Yangjian Cai
Shandong Normal University

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Organizers

Chinese Optical Society, China

Chinese Laser Press, China

Co-Organizers

Suzhou University of Science and Technology, China

Fundamental Optics Committee of the Chinese Optical Society, China

Special Acknowledgements

We would like to express our sincere appreciation for the great supports and contributions from the following organizations.





Chairs

Conference Chairs

Ya Cheng	<i>Shanghai Institute of Optics and Fine Mechanics, CAS, China</i>
Yunquan Liu	<i>Peking University, China</i>
Yangjian Cai	<i>Shandong Normal University, China</i>

Steering Panel

Peter Balling	<i>Aarhus University, Denmark</i>
Chunlei Guo	<i>University of Rochester, USA</i>
Ion N. Mihailescu	<i>National Institute for Lasers, Plasma and Radiation Physics, Romania</i>
Aaron Peled	<i>Holon Institute of Technology, Israel</i>
Gediminas Raciukaitis	<i>Center for Physical Sciences and Technology, Lithuania</i>
Koji Sugioka	<i>RIKEN, Japan</i>
Yasuyuki Tsuboi	<i>Osaka City University, Japan</i>
Leonid Zhigilei	<i>University of Virginia, USA</i>

Committees

International Advisory Committee

Salvatore Amoruso	<i>University of Napoli Federico II, Italy</i>
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Anna Paola Caricato	<i>University of Salento, Italy</i>
Ya Cheng	<i>Shanghai Institute of Optics and Fine Mechanics, CAS, China</i>
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Yongfeng Lu	<i>University of Nebraska Lincoln, USA</i>
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Jie Qiao	<i>Rochester Institute of Technology, USA</i>
Carmen Ristoscu	<i>National Institute for Lasers, Plasma and Radiation Physics, Romania</i>
Pere Serra	<i>Department of Applied Physics and Optics, University of Barcelona, Spain</i>

Local Organizing Committee

Ya Cheng	<i>Shanghai Institute of Optics and Fine Mechanics, CAS, China</i>
Yunquan Liu	<i>Peking University, China</i>
Yangjian Cai	<i>Shandong Normal University, China</i>
Feng Chen	<i>Shandong University, China</i>
Shuqi Chen	<i>Nankai University, China</i>
Xianfeng Chen	<i>Shanghai Jiao Tong University, China</i>
Wenxue Li	<i>East China Normal University, China</i>
Chunlan Ma	<i>Suzhou University of Science and Technology, China</i>
Qinghai Song	<i>Harbin Institute of Technology, China</i>
Chuanshan Tian	<i>Fudan University, China</i>
Guoping Wang	<i>Shenzhen University, China</i>
Jun Wang	<i>Shanghai Institute of Optics and Fine Mechanics, CAS, China</i>
Quanying Wu	<i>Suzhou University of Science and Technology, China</i>
Zhenda Xie	<i>Nanjing University, China</i>
Jian Xu	<i>East China Normal University, China</i>
Chengliang Zhao	<i>Soochow University, China</i>
Zengxiu Zhao	<i>National University of Defense Technology, China</i>

Plenary Speaker

Prof. Koji Sugioka

RIKEN, Japan

"Ultrafast Laser 3D Micro and Nanoprocessing"

Invited Speakers

Yves Bellouard

Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland

"On the use of non-ablative femtosecond laser-matter interaction for tailoring materials properties"

Nadezhda Bulgakova

HiLASE, Institute of Physics CAS, Czech Republic

"Laser processing of bandgap materials in dual wavelength irradiation regimes: mechanisms and opportunities for efficient energy coupling"

Zhigang Chen

Nankai University, China

"Topological control of light in photonic lattices"

Yoshio Hayasaki

Utsunomiya University, Japan

"Holographic laser processing with high stability"

Tatiana Itina

CNRS and Saint-Etienne University, France

"Modeling of laser-induced modifications of nano-objects and nanocomposite materials"

Aleksandr Kuchmzhak

Far Eastern Federal University, Russia

"Structural color marking and security labeling by ablation-free femtosecond laser processing"

Yongfeng Lu

University of Nebraska-Lincoln, USA

"Forming micro-objects using two-dimensional printing and spontaneous Origami transformations"

Godai Miyaji

Tokyo University of Agriculture and Technology, Japan

"Direct nanopatterning by surface plasmons excited with intense femtosecond laser pulses"

Sven Reichenberger

University of Duisburg-Essen (UDE), Germany

"Photoexcited imprinting of defects and dopants in nanoparticles by pulsed laser diffusion enhancement in liquids"

Razvan Stoian

Université Jean Monet, France

"Micro and nanoscale dynamics of ultrafast laser refractive index engineering for 3D optical design"

Katharine Moore Tibbetts

Virginia Commonwealth University, USA

"Elucidation of chemical reactions induced by laser ablation in organic liquids"

Mitsuhiro Terakawa

Keio University, Japan

"Laser fabrication of functional microstructures on hydrogel"

Yiping Wang

Shenzhen University, China

"Large-scale fiber Bragg Grating array inscribed by femtosecond laser and sensing applications"

Yong Zhang

Nanjing University, China

"Femtosecond laser writing of 3D $\chi^{(2)}$ structures in lithium niobate crystal"

Leonid V. Zhigilei

University of Virginia, USA

"Generation of crystal defects in ultrashort pulse laser processing of surfaces and nanoparticles"

Official and Social Programs

- Registration
Sept. 18
08:30–20:30
- Welcome Reception
Sept. 18
17:30–20:00
- Opening Remarks & Plenary
Sept. 19
8:30–9:25, Long Pan Ballroom
- Poster Sessions
Sept. 19, odd paper numbers & Sept. 21, even paper numbers
19:30–20:30, Event Hall
- Coffee Break
Sept. 19, Sept. 21, twice a day
Sept. 20, Sept. 22, morning
- Closing Remarks
Sept. 22
15:45–16:00, Long Pan Ballroom
- Excursion
Sept. 20
13:00–18:00, Tong Li
- Banquet
Sept. 20
18:30–20:30, Suzhou Jiangnan Shou Xi

Excursion

Day and Time: Day-2, Sept. 20, 13:00~18:00

Place: Tongli

The bus will take attendees to the banquet in the evening. Details will be announced in the conference.



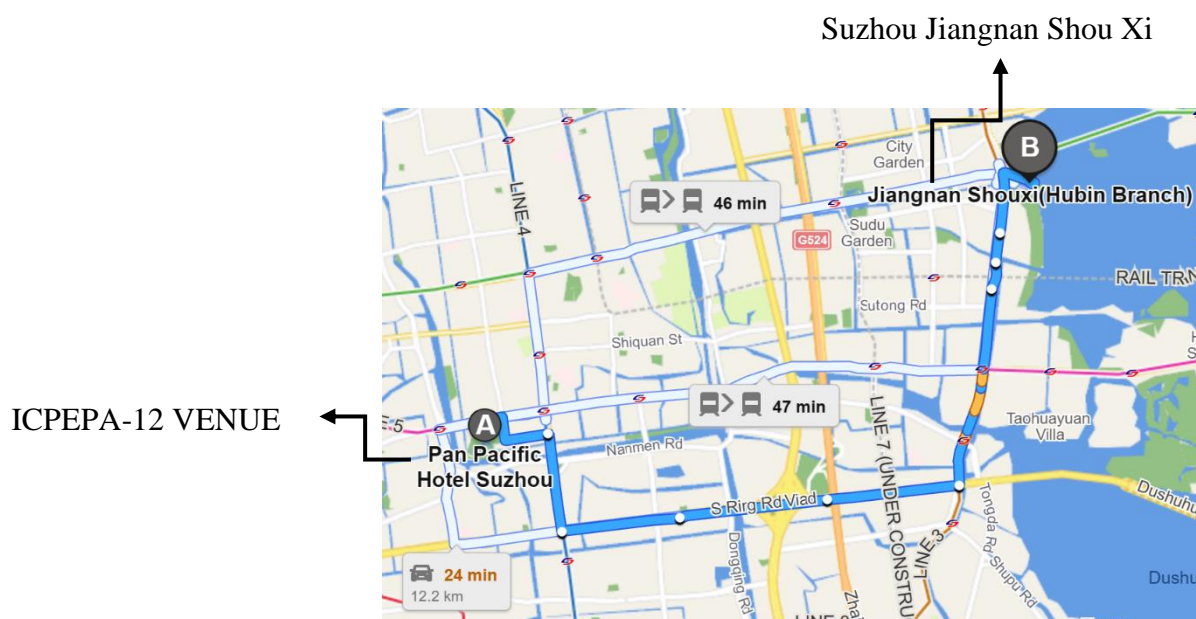
Tongli, is a town in Wujiang district, on the outskirts of Suzhou, Jiangsu province. It was built in the Song dynasty and till now, it has a history of more than 1000 years. It has been given the nickname "Venice of the East". The place retains many of the features of an ancient Wu region town. In 2010, it was evaluated as a national 5A tourist attraction by the National Tourism Administration.

Banquet

Day and Time: Day-2, Sept. 20, 18:30~20:30

Place: Suzhou Jiangnan Shou Xi (苏州江南首席(湖滨壹号))

Add: 3rd floor, Hubin Building, Hubin Avenue, Suzhou Industrial Park, Suzhou, China.



Paper Codes on ICPEPA-12 Program

Oral Presentations

The 1st & 2nd letters of the codes indicate the day of the week.

Mo = Monday

Tu = Tuesday

We = Wednesday

Th = Thursday

Fr = Friday

The 3rd & 4th letters indicate the presentation type.

PL = Plenary

I = Invited

O = Oral

The last number after hyphen signals the presentation order of the paper

For example, Tu-O-4

[Tuesday] — [Oral Presentation] — [4th presentation]

Poster Presentations

The 1st letter of the codes indicates the presentation type.

P = Poster

The last number after hyphen signals the poster order of the paper.

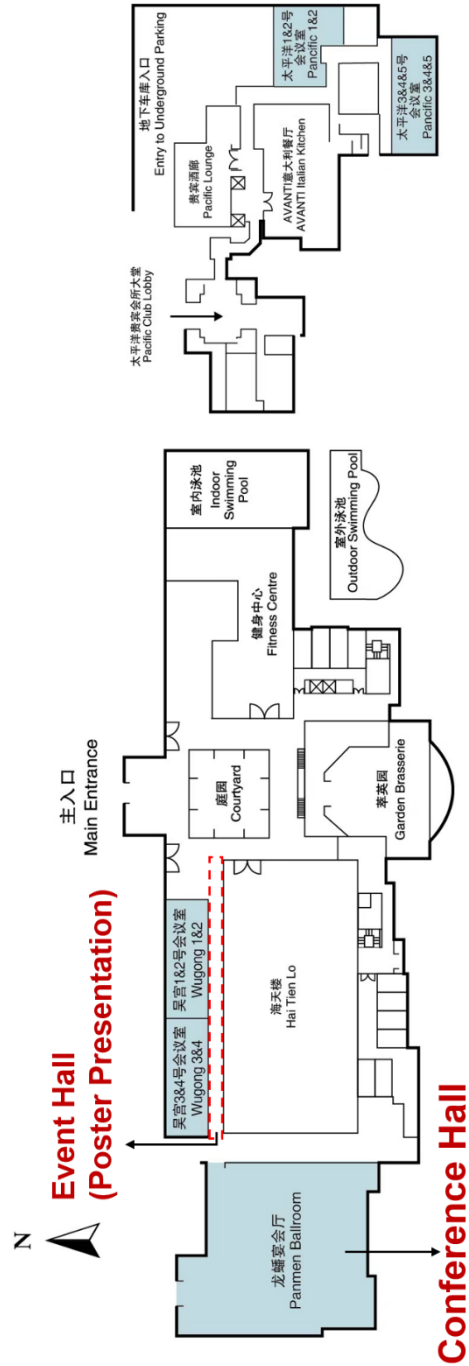
For example, P-4

[Poster Presentation] — [4th poster]

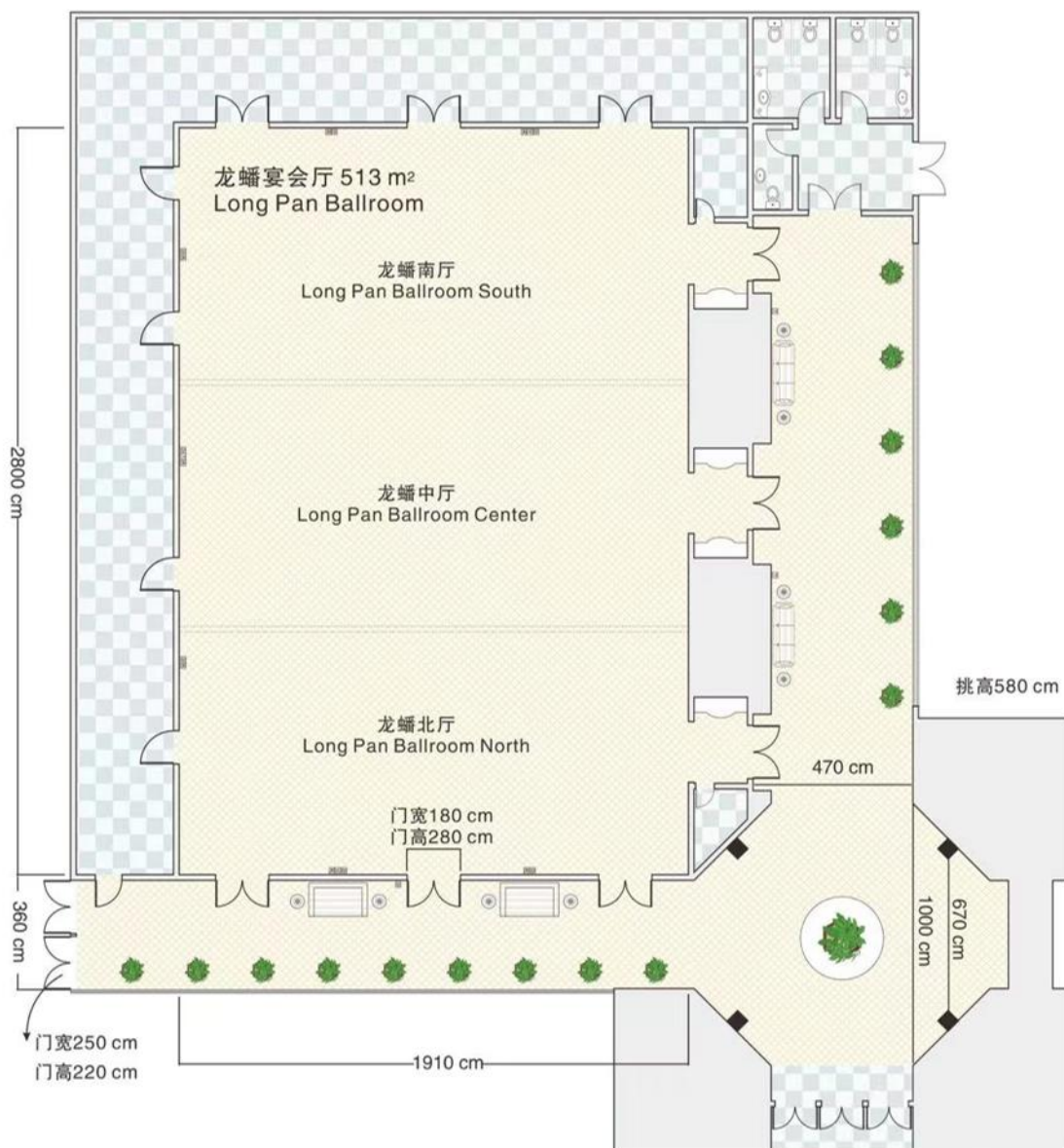
Important Notes

The poster presenters are requested to be present in front of their posters during 19:30-20:30 on Tuesday for the odd paper numbers and Thursday for the even paper numbers.

酒店一楼平面图
Hotel First Floor Plan



Conference Hall



Program

Oral Session

Day 1: Tuesday, September 19

Day 1: September 19, Tuesday

Opening

8:30 Opening Remarks-Prof. Ya Cheng & Prof. Bojian Tang

Plenary Session

Chair: Yunquan Liu (Peking University, China)

08:40 Tu-PL-1

Plenary

ICPEPA-2023-000081

Ultrafast laser 3D micro and nanoprocessing, Koji Sugioka^{1*}, ¹RIKEN Center for Advanced Photonics, Wako, Saitama 351-0198, Japan

Ultrafast processes in laser-matter interaction

Chair: Yiping Wang (Shenzhen University, China)

09:25 Tu-I-1 [Online]

Invited

ICPEPA-2023-000042

Elucidation of chemical reactions induced by laser ablation in organic liquids, Katharine Moore Tibbetts^{1*}, ¹Department of Chemistry, Virginia Commonwealth University, Richmond, VA 23284 USA

09:55 Tu-O-1

ICPEPA-2023-000145

Interaction of matter with intense femtosecond laser: from Gas to solid, Chengyin Wu^{1*}, ¹School of Physics, Peking University, Beijing 100871, China

10:10 Tu-O-2

ICPEPA-2023-000105

Direct sampling of ultrashort laser pulses using third order process with perturbation, Pei Huang^{1*}, Huabao Cao^{1,2}, Hao Yuan^{1,2}, Yuxi Fu^{1,2*}, ¹Center for Attosecond Science and Technology, State Key Laboratory of Transient Optics and Photonics, Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences, Xi'an 710119, Shaanxi, China, ²University of Chinese Academy of Sciences, Beijing 100049, China

10:25 Tu-O-3

ICPEPA-2023-000108

Attosecond X-ray absorption spectroscopy of ionic dynamics induced by strong-field ionization, Qian Zhang¹, Jing Zhao^{1*}, Xiaowei Wang¹, Jinlei Liu¹, Zengxiu Zhao¹, ¹Department of Physics, National University of Defense Technology, Changsha, 410073, China

10:40 Group Photo & Coffee Break

Advanced photonic devices

Chair: Jiaxu Yan (Changchun Institute of Optics, Fine Mechanics and Physics, CAS, China)

11:00 Tu-I-2

Invited

ICPEPA-2023-000117

Large-scale fiber bragg grating array inscribed by femtosecond laser and sensing applications, Yiping Wang^{1,2,3*}, Cailing Fu^{1,2}, Zhenwei Peng^{1,2}, ¹Shenzhen Key Laboratory of Photonic Devices and Sensing Systems for Internet of Things, Guangdong and Hong Kong Joint Research Centre for Optical Fibre Sensors, State Key Laboratory of Radio Frequency Heterogeneous Integration, Shenzhen University, Shenzhen 518060, China,

²Shenzhen Key Laboratory of Ultrafast Laser Micro/Nano Manufacturing, Key Laboratory of Optoelectronic Devices and Systems of Ministry of Education/Guangdong Province, College of Physics and Optoelectronic Engineering, Shenzhen University, Shenzhen 518060, China, ³Guangdong Laboratory of Artificial Intelligence and Digital Economy (SZ), Shenzhen 518107, China

11:30 Tu-O-4 ICPEPA-2023-000021

Imaging characteristic of the free-form sparse aperture telescope system, Quanying Wu^{1*}, Junliu Fan^{1,2}, Baohua Chen¹, Jun Wang¹, ¹School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou, 215009, Jiangsu, China, ²School of Electronic and Optical Engineering, Nanjing University of Science and Technology, Nanjing 210094, Jiangsu, China

11:45 Tu-O-5 ICPEPA-2023-000124

Development of optical frequency combs and dual-comb spectroscopy, Wenxue Li^{1*}, ¹East China Normal University, Shanghai, China

12:00 Tu-O-6 ICPEPA-2023-000126

Electro-optic crystal performance optimization and optical devices design based on ferroelectric domain engineering, Hao Tian^{1*}, ¹Harbin Institute of Technology, China

12:15 Tu-O-7 ICPEPA-2023-000066

Highly sensitive fiber optic air pressure sensor based on femtosecond laser processing, Changning Liu^{1*}, ¹College of Physics and Electronic Science, Hubei Normal University, Huangshi, Hubei 435002, China

12:30 Lunch

Fundamentals of laser interaction with materials 1

Chair: Wenxue Li (East China Normal University, China)

14:00 Tu-O-8 ICPEPA-2023-000103

The surface-enhanced Raman scattering performance and mechanism of Oxygen Vacancy-Based Tungsten Oxide substrates, Lingjun Gu¹, Shan Cong², Chunlan Ma^{1*}, ¹Jiangsu Key Laboratory of Micro and Nano Heat Fluid Flow Technology and Energy Application, School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou, 215009, China, ²Key Laboratory of Nano-Devices and Applications, Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, Ruoshui Road 398, Suzhou, China

14:15 Tu-O-9 ICPEPA-2023-000097

Stimulated phonon polaritons mediated light-matter interaction and terahertz nonlinear physics, Yao Lu^{1*}, Qiang Wu¹, Jingjun Xu¹, ¹Key Laboratory of Weak-Light Nonlinear Photonics, Ministry of Education, TEDA Applied Physics Institute and School of Physics, Nankai University, Tianjin, 300457, China

14:30 Tu-O-10 **Student** ICPEPA-2023-000029

Multiscale computational study of surface modification by nonlinear laser-induced surface acoustic waves, Yuan Xu¹, Maxim V. Shugaev¹, Leonid V. Zhigilei^{1*}, ¹University of Virginia, USA

14:45 Tu-O-11 ICPEPA-2023-000136

Geometric phase controlled nonlinear photonic metasurfaces, Guixin Li^{1*}, ¹Department of Materials Science and Engineering, Southern University of Science and Technology, Shenzhen 518055, China

15:00 Tu-O-12 ICPEPA-2023-000142

The application of simultaneous spatiotemporal focusing technique in femtosecond laser microfabrication, Yuanxin Tan¹, J. Xu², Y. J. Cai^{1*}, Y. Cheng^{2*}, ¹Shandong Provincial Engineering and Technical Center of Light Manipulations & Shandong Provincial Key Laboratory of Optics and Photonic Device, School of Physics and Electronics, Shandong Normal University, Jinan 250014, China, ²XXL—The Extreme Optoelectromechanics Laboratory, School of Physics and Electronics Science, East China Normal University, Shanghai 200241, China

15:15 Tu-I-3 [Online]

Invited

ICPEPA-2023-000116

Laser processing of bandgap materials in dual wavelength irradiation regimes: mechanisms and opportunities for efficient energy coupling, Nadezhda Bulgakova^{1*}, V. P. Zhukov^{1,2}, M. Zukerstein¹, J. Hrabovský^{1,3}, A. V. Bulgakov¹, ¹HiLASE Centre, Institute of Physics of the Czech Academy of Sciences, Za Radnici 828, 25241 Dolní Břežany, Czech Republic, ²Federal Research Center for Information and Computational Technologies, Lavrentyev ave. 6, 630090 Novosibirsk, Russia, ³Faculty of Mathematics and Physics, Charles University in Prague, Ke Karlovu 3, 121 16 Prague 2, Czech Republic

15:45 Coffee Break

Fundamentals of laser interaction with materials 2

Chair: Ya Cheng (Shanghai Institute of Optics and Fine Mechanics, CAS, China)

16:00 Tu-I-4 [Online]

Invited

Photoexcited imprinting of defects and dopants in nanoparticles by pulsed laser diffusion enhancement in liquids, Sven Reichenberger^{1*}, ¹Technical Chemistry I and Center for Nanointegration Duisburg-Essen (CENIDE), Research Center for Nano Energy Technology (NETZ), Duisburg, 47057, University of Duisburg-Essen, Germany

16:30 Tu-O-13

ICPEPA-2023-000002

Spectroscopic measurements and analysis of Chl-a concentration effects and photo-excited processes in ethanol solutions of comestible plants, Aaron Peled^{1*}, Simona Alexandra Popescu¹, ¹Photonics Laboratory, Faculty of Engineering, Holon Institute of Technology, 52 Golomb Str. Holon 5867910 Israel

16:45 Tu-O-14

Student

ICPEPA-2023-000064

Nonlinear harmonic wave manipulation in nonlinear scattering medium via Scattering-Matrix method, Fengchao Ni¹, Haigang Liu¹, Yuanlin Zheng^{1,2*}, Xianfeng Chen^{1,2,3*}, ¹State Key Laboratory of Advanced Optical Communication Systems and Networks, School of Physics and Astronomy, Shanghai Jiao Tong University, Shanghai 200240, China, ²Shanghai Research Center for Quantum Sciences, Shanghai 201315, China, ³Collaborative Innovation Center of Light Manipulations and Applications, Shandong Normal University, Jinan 250358, China

17:00 Tu-O-15

ICPEPA-2023-000047

Ultrafast carrier dynamics of two-dimensional transition metal dichalcogenides, Zhaogang Nie^{1,2,3*}, ¹School of Physical Science and Information Technology, Liaocheng University, Liaocheng 252059, China, ²School of Physics and Optoelectronic Engineering, Guangdong University of Technology, Guangzhou 510006, China, ³Key Laboratory of Optical Communication Science and Technology of Shandong Province, Liaocheng University, Liaocheng 252059, China

17:15 Tu-O-16

Student

ICPEPA-2023-000013

Modeling of optical properties of laser-induced plume, Chaobo Chen¹, Maximilian Spellaue^{2,3}, Heinz Paul Huber², Leonid V. Zhigilei^{1*}, ¹Materials Science and Engineering, University of Virginia, 395 McCormick Road, Charlottesville, Virginia 22904-4745, USA, ²Applied Sciences and Mechatronics, Munich University of Applied Sciences, Lothstr. 34, 80335 Munich, Germany, ³Technical Chemistry I and Center for Nanointegration Duisburg-Essen (CENIDE), University of Duisburg-Essen, 45141 Essen, Germany

17:30 Tu-O-17

ICPEPA-2023-000023

Ionic excitation and its stimulated emissions in ultrafast femtosecond laser fields, Hongqiang Xie^{1,2*}, Qian Zhang¹, Guihua Li², Hongbin Lei¹, Xiaowei Wang¹, Jing Zhao¹, Jinping Yao³, Ya Cheng⁴, Zengxiu Zhao¹, ¹East China University of Technology, Nanchang 330013, China, ²National University of Defense Technology, Changsha 410073, China, ³Shanghai Institute of Optics and Fine Mechanics, CAS, Shanghai 201800, China, ⁴East China Normal University, Shanghai 200062, China

17:45 Tu-O-18

ICPEPA-2023-000083

Coherent diffraction imaging with broadband illuminations, Boyang Li¹, Zehua Xiao¹, Hao Yuan¹, Hushan Wang^{1*}, Yuxi Fu^{1*}, ¹*Xi'an Institute of Optics and Precision Mechanics of Chinese Academy of Sciences, Xi'an 710119, China*

18:00 Dinner

Poster Session 1: 19:30 (odd paper numbers)

Day 2: Wednesday, September 20

Ultrafast laser surface processing

Chair: Razvan Stoian (Université Jean Monnet, France)

08:30 We-I-1

Invited

ICPEPA-2023-000077

Direct nanopatterning by surface plasmons excited with intense femtosecond laser pulses, Godai Miyaji^{1*}, ¹*Faculty of Engineering, Tokyo University of Agriculture and Technology, 2-24-16, Nakacho, Koganei, Tokyo 184-8588, Japan*

09:00 We-O-1

ICPEPA-2023-000049

Surface structuring of fused silica by an ultrashort pulse burst with THz repetition rates, Boyang Zhou¹, Amlan Das¹, Xiaoming Yu^{1*}, ¹*CREOL, The College of Optics and Photonics, University of Central Florida, Orlando, Florida 32816, USA*

09:15 We-O-2

ICPEPA-2023-000039

Direct graving of microstructures on a highly-transparent CYTOP substrate by 257-nm femtosecond laser, Kazunari Ozasa^{1*}, K. Obata¹, H. Kawano^{2,3}, A. Miyawaki^{2,3}, K. Sugioka^{1*}, ¹*Advanced Laser Processing Research Team, RAP-RIKEN, 2-1 Hirosawa, Wako, Saitama 351-0198, Japan*, ²*Biotechnological Optics Research Team, RAP-RIKEN, 2-1 Hirosawa, Wako, Saitama 351-0198, Japan*, ³*Laboratory for Cell Function Dynamics, CBS-RIKEN, 2-1 Hirosawa, Wako, Saitama 351-0198, Japan*

09:30 We-O-3

Student

ICPEPA-2023-000032

Femtosecond laser printing nanoparticle array on flexible substrate for detection application, Yu Zhou¹, Yongxiang Hu^{1*}, ¹*State Key Laboratory of Mechanical System and Vibration, School of Mechanical Engineering, Shanghai Jiao Tong University, Shanghai 200240, China*

09:45 We-O-4

Student

ICPEPA-2023-000044

Freeform chiral metasurfaces for advanced polarization optical elements, Qianmei Deng¹, Fengjun Li¹, Xiangping Li¹, Zilan Deng^{1*}, ¹*Guangdong Provincial Key Laboratory of Optical Fiber Sensing and Communications, Institute of Photonics Technology, Jinan University, Guangzhou 510632, China*

10:00 Coffee Break

Laser writing of optical waveguides

Chair: Godai Miyaji (Tokyo University of Agriculture and Technology, Japan)

10:15 We-I-2

Invited

ICPEPA-2023-000031

Micro and nanoscale dynamics of ultrafast laser refractive index engineering for 3D optical design, Razvan Stoian^{1*}, ¹*Laboratoire Hubert Curien, UMR 5516, CNRS, Université Jean Monnet, Saint Etienne, France*

10:45	We-O-5	Student	ICPEPA-2023-000110
Modification in Alpha-Quartz induced by ultrashort pulsed laser for low-loss optical waveguide formation, Tomohiro Fukui ¹ , Reina Yoshizaki ^{2*} , Yusuke Ito ¹ , Junya Hattori ¹ , Naohiko Sugita ² , ¹ Department of Mechanical Engineering, Graduate School of Engineering, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, 113-8656, Japan, ² Research into Artifacts, Center for Engineering, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo, 113-8656, Japan			
11:00	We-O-6		ICPEPA-2023-000140
On-chip polarization beam splitter at visible wavelengths with ridge waveguide, Yujie Ma ^{1*} , Xinzhi Zheng ¹ , ¹ Shenzhen Key Laboratory of Ultraintense Laser and Advanced Material Technology, Center for Advanced Material Diagnostic Technology, College of Engineering Physics, Shenzhen Technology University, Shenzhen 518118, People's Republic of China			
11:15	We-O-7		ICPEPA-2023-000104
Ultrafast laser inscription of waveguides in Gorilla glass, Jing Lv ^{1*} , G. Cheng ^{1*} , K. Wang ² , ¹ School of Artificial Intelligence, Optics and Electronics (iOPEN), Northwestern Polytechnical University, Xi'an 710072, China, ² State Key Laboratory for Manufacturing Systems Engineering, Xi'an Jiaotong University, Xi'an 710054, China			
11:30	We-O-8		
Femtosecond laser assisted fabrication of optofluidic waveguides in glass, Jian Xu ^{1*} , Jianping Yu ^{1,2} , Jianfang Chen ² , Ya Cheng ^{1,2*} , ¹ The Extreme Optoelectromechanics Laboratory, East China Normal University, Shanghai 200241, China, ² Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, Shanghai, China			
11:45	We-O-9		
TBD, Lei Shi ^{1*} , Fudan University, China			
12:00	Lunch		
13:00	Excursion		
18:30	Banquet		

Day 3: Thursday, September 21

Structured light and resonators

Chair: Dongshi Zhang (Shanghai Jiao Tong University, China)

08:30	Th-I-1 [Online]	Invited	ICPEPA-2023-000024
Holographic laser processing with high stability, Yoshio Hayasaki ^{1*} , Satoshi Hasegawa ¹ , Honghao Zhang ¹ , Nami Kuroo ¹ , Fumiya Ishita ¹ , Takefumi Kosugi ¹ , ¹ Center for Optical Research and Education (CORE), Utsunomiya University, 7-1-2 Yoto, Utsunomiya, 321-8585, Japan			
09:00	Th-O-1		ICPEPA-2023-000041
Vortex and vector air lasing, Yi Liu ^{1*} , Jingsong Gao ² , Meicheng Mei ¹ , Xiang Zhang ¹ , Yang Wang ² , Yiqi Fang ² , Qi Lu ¹ , Chengyin Wu ² , Yunquan Liu ² , Qihuang Gong ² , Hongbing Jiang ² , ¹ Shanghai Key Lab of Modern Optical System, University of Shanghai for Science and Technology, Shanghai 200093, China, ² State Key Laboratory for Mesoscopic Physics, School of Physics, Peking University, Beijing 100871, China			
09:15	Th-O-2		ICPEPA-2023-000050
High-throughput volumetric microfabrication with structured light, He Cheng ¹ , Pooria Golvari ² , Chun Xia ¹ , Mingman Sun ³ , Meng Zhang ³ , Stephen M. Kuebler ^{1,2} , Xiaoming Yu ^{1*} , ¹ CREOL, The College of Optics and Photonics, University of Central Florida, Orlando, Florida 32816, USA, ² Department of Chemistry, University of Central Florida, Orlando, FL 32816, USA, ³ Department of Industrial and Manufacturing Systems Engineering, Kansas State University, Manhattan, KS 66506, USA			

09:30 Th-O-3 ICPEPA-2023-000098

Optical twisted phase strips, Jinzhan Zhong^{1*}, Qiwen Zhan¹, ¹*School of Optical-Electrical and Computer Engineering, University of Shanghai for Science and Technology, Shanghai 200093, China*

09:45 Th-O-4 **Student** ICPEPA-2023-000113

High quality lithium niobate Euler racetrack resonators, Shuting Kang¹, Xuanyi Yu¹, Feng Gao¹, Fang Bo^{1*}, Guoquan Zhang^{1*}, Jingjun Xu^{1*}, ¹*MOE Key Laboratory of Weak-Light Nonlinear Photonics, TEDA Institute of Applied Physics and School of Physics, Nankai University, Tianjin 300457, China*

10:00 Th-O-5 ICPEPA-2023-000027

Photoacoustic tomography with a chalcogenide-based micro-ring sensor array, Jingshun Pan¹, Qiang Li¹, Yuecheng Shen^{1*}, Zhaohui Li^{1*}, ¹*School of Electronics and Information Technology, Guangdong Provincial Key Laboratory of Optoelectronic Information Processing Chips and Systems, Sun Yat-sen University, Guangzhou 510275, China*

10:15 Coffee Break

Functional optical materials

Chair: Yi Liu (University of Shanghai for Science and Technology, China)

10:30 Th-I-2 [Online] **Invited** ICPEPA-2023-000040

Laser fabrication of functional microstructures on hydrogel, Mitsuhiro Terakawa^{1*}, ¹*Department of Electronics and Electrical Engineering, Keio University 3-14-1 Hiyoshi, Kohoku-ku, Yokohama, Kanagawa 223-8522, Japan*

11:00 Th-O-6 ICPEPA-2023-000123

Optical modulation of metallic interfaces by femtosecond laser nanostructuring, Dongshi Zhang^{1*}, Ruijie Liu¹, Chunxi Li¹, Zhuguo Li¹, ¹*Shanghai Key Laboratory of Materials Laser Processing and Modification, School of Materials Science and Engineering, Shanghai Jiao Tong University, Shanghai, China*

11:15 Th-O-7 ICPEPA-2023-000089

Chiral artificial nanostructures and their applications in optical field manipulation, Zhancheng Li^{1*}, Jiaqi Cheng¹, Shuqi Chen¹, ¹*The Key Laboratory of Weak Light Nonlinear Photonics, Ministry of Education, School of Physics and TEDA Institute of Applied Physics, Nankai University, Tianjin 300071, China*

11:30 Th-O-8 ICPEPA-2023-000092

Bright upconversion emitter at very low laser irradiance, Xuewen Chen^{1*}, Jianwei Tang¹, ¹*School of Physics, Huazhong University of Science and Technology, Wuhan, 430074, China*

11:45 Th-O-9 **Student** ICPEPA-2023-000101

Tunable narrowband carbon quantum dots laser based on self-assembled microstructure, Meng Zhang¹, Hailang Dai^{1*}, Xianfeng Chen^{1*}, ¹*State Key Laboratory of Advanced Optical Communication Systems and Networks, School of Physics and Astronomy, Shanghai Jiao Tong University, Shanghai 200240, China*

12:00 Lunch

Complex and topological photonics

Chair: Yucheng Jiang (Suzhou University of Science and Technology, China)

14:00 Th-I-3 [Online]

Invited

Modeling of laser-induced modifications of nano-objects and nanocomposite materials, Tatiana Itina^{1*}, A. Rudenko², ¹Hubert Curien Laboratory, UMR CNRS 5516, UJM, Saint-Etienne, France, ²College of Optical Sciences/University of Arizona, USA

14:30 Th-O-10

ICPEPA-2023-000051

Low-threshold multi-wavelength plasmonic nanolasing in an 'H'-shape cavity, Fajun Xiao^{1*}, Jianlin Zhao¹, ¹Key Laboratory of light-field manipulation and information acquisition, Ministry of Industry and Information Technology, and Shaanxi Key Laboratory of Optical Information Technology, School of Physical Science and Technology, Northwestern Polytechnical University, Xi'an 710129, China

14:45 Th-O-11

ICPEPA-2023-000069

Coupling of two-dimensional excitons with plasmonic nanocavity, Longlong Yang¹, Can Wang^{1*}, Xiulai Xu^{2*}, ¹Institute of Physics, Chinese Academy of Sciences, Beijing 100190, China, ²School of Physics, Peking University, Beijing 100871, China

15:00 Th-O-12

Student

ICPEPA-2023-000120

Topologically protected strong-interaction of photonics with free electron, Jing Li^{1,2}, Yunquan Liu^{1,2,3,4*}, ¹State Key Laboratory for Mesoscopic Physics and Collaborative Innovation Center of Quantum Matter, School of Physics, Peking University, Beijing 100871, China, ²Beijing Academy of Quantum Information Sciences, Beijing 100193, China, ³Collaborative Innovation Center of Extreme Optics, Shanxi University, Taiyuan, Shanxi 030006, China, ⁴Peking University Yangtze Delta Institute of Optoelectronics, Nantong, Jiangsu 226010, China

15:15 Th-O-13

Student

ICPEPA-2023-000096

Observation gauge field in type-III Weyl metamaterials, Yanji Zheng¹, Cuicui Lu^{1*}, ¹Key Laboratory of Advanced Optoelectronic Quantum Architecture and Measurements of Ministry of Education, Beijing Key Laboratory of Nanophotonics and Ultrafine Optoelectronic Systems, School of Physics, Beijing Institute of Technology, Beijing 100081, China

15:30 Th-O-14

ICPEPA-2023-000006

Three-dimensional observation of topological magnetic monopoles in a ferromagnetic meta-lattice, Xingyuan Lu^{1*}, Chengliang Zhao¹, Yangjian Cai², ¹School of Physical Science and Technology, Soochow University, Suzhou 215006, China, ²Shandong Provincial Engineering and Technical Center of Light Manipulations & Shandong Provincial Key Laboratory of Optics and Photonic Device, School of Physics and Electronics, Shandong Normal University, Jinan 250358, China.

15:45 Coffee Break

Surface nanostructuring

Chair: Koji Sugioka (RIKEN, Japan)

16:00 Th-I-4 [Online]

Invited

ICPEPA-2023-000033

Generation of crystal defects in ultrashort pulse laser processing of surfaces and nanoparticles, Hao Huang^{1,2}, Chaobo Chen¹, Miao He^{1,3}, Leonid Zhigilei^{1*}, ¹Materials Science and Engineering, University of Virginia, 395 McCormick Road, Charlottesville, Virginia 22904-4745, USA, ²School of Mechanical Science and Engineering, Huazhong University of Science and Technology, Wuhan 430074, China, ³Department of Mechanical Engineering, University of Michigan, Ann Arbor, MI, 48109, USA

16:30 Th-I-5 [Online] **Invited** ICPEPA-2023-000030

Structural color marking and security labeling by ablation-free femtosecond laser processing, V. Lapidas¹, A. Zhizhchenko¹, Aleksandr Kuchmzhak^{1,2*}, ¹*Institute of Automation and Control Processes, Far Eastern Branch, Russian Academy of Science, 5 Radio Str., Vladivostok 690041, Russia*, ²*Pacific Quantum Center, Far Eastern Federal University, Vladivostok, Russia*

17:00 Th-O-15 ICPEPA-2023-000019

Nanostructure morphology control in PLD / VLS, Aurelian Marcu^{1*}, Razvan Mihalcea¹, Ionut Nicolae¹, Cristian Viespe¹, Mihai Serbanescu¹, Marius Dumitru¹, ¹*National Institute for Laser Plasma and Radiation Physics, Magurele, Ilfov 077125, Romania*

17:15 Th-O-16 ICPEPA-2023-000118

Pure boron nanoparticles produced by ns laser ablation in water, Marcella Dell'Aglio^{1*}, Alessandro De Giacomo², Daniela Manno^{3,4}, Chiara Provenzano⁵, Marcella Marra³, Gianluca Quarta^{3,4,6}, Antonia Mallardi⁷, Lucio Calcagnile^{3,4,6}, Antonio Serra^{3,4}, Anna Paola Caricato^{3,4*}, ¹*CNR-IFN (National Research Council - Institute for photonics and nanotechnologies), c/o Physics Department, Via Amendola 122/D, 70126, Bari, Italy*, ²*Department of Chemistry, University of Bari, Via Orabona 4, 70125, Bari, Italy*, ³*Department of Mathematics and Physics "E. De Giorgi," University of Salento, via per Arnesano, km 1, 73100, Lecce, Italy*, ⁴*National Institute of Nuclear Physics (INFN-Le) at the Department of Mathematics and Physics "E. De Giorgi," University of Salento, via per Arnesano, km 1, 73100, Lecce, Italy*, ⁵*Department of Engineering for Innovation, University of Salento, via per Monteroni, km 1, 73100, Lecce, Italy*, ⁶*CEDAD - Center of Applied Physics, DAtation and Diagnostics, S.S.7 via Appia, Km 7+300, Brindisi, Italy*, ⁷*CNR-IPCF, Institute for Chemical-Physical Processes, c/o Chemistry Department, Via Orabona 4, 70125, Bari, Italy*

17:30 Th-O-17 **Student** ICPEPA-2023-000139

High-efficiency localized electrochemical deposition based on ultrafast laser surface modification, Jinlong Xu¹, Guodong Zhang^{1*}, Jinkai Xu^{2*}, Guanghua Cheng^{1*}, ¹*School of Artificial Intelligence, OPTics and ElectroNics (iOPEN), Northwestern Polytechnical University, Xi'an 710072, China*, ²*Ministry of Education Key Laboratory for Cross-Scale Micro and Nano Manufacturing, Changchun University of Science and Technology, Changchun 130022, China*

17:45 Th-O-18 ICPEPA-2023-000111

Significantly increased Raman enhancement enabled on anisotropic ReS₂ films, Shuyi Wu^{1*}, Wen Pan¹, Chunlan Ma¹, ¹*Jiangsu Key Laboratory of Micro and Nano Heat Fluid Flow Technology and Energy Application, School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou, 215009, China*

18:00 Dinner

Poster Session 2: 19:30 (even paper numbers)

Day 4: Friday, September 22

Laser nanofabrication and nanosynthesis

Chair: Bing Gu (Southeast University, China)

08:30 Fr-I-1 [Online] **Invited**

Forming micro-objects using two-dimensional printing and spontaneous Origami transformations, Yongfeng Lu^{1*}, Aofei Mao¹, Peixun Fan¹, Loic Constantin¹, Nan Li¹, Xi Huang¹, Bai Cui², Jean-Francois Silvain³, Xinwei Wang⁴, ¹*Department of Electrical and Computer Engineering, University of Nebraska, Lincoln, NE 68588, USA*, ²*Department of Mechanical and Materials Engineering, University of Nebraska, Lincoln, NE 68588, USA*, ³*CNRS, University of Bordeaux, Bordeaux I.N.P., ICMCB, UMR 5026, F-33608 Pessac, France*, ⁴*Department of Mechanical Engineering, Iowa State University, Ames, IA 50011, USA*

09:00 Fr-O-1

Additive nanomanufacturing by femtosecond laser direct writing, Wei Xiong^{1,2*}, ¹Wuhan National Laboratory for Optoelectronics, School of Optical and Electronic Information, Huazhong University of Science and Technology, Wuhan 430074, China, ²Optics Valley Laboratory, Hubei 430074, China

09:15 Fr-O-2

ICPEPA-2023-000121

Photoelectric property modulation by stacking-engineering in two-dimensional materials, Jiaxu Yan^{1*}, ¹Changchun Institute of Optics, Fine Mechanics and Physics (CIOMP), Chinese Academy of Sciences, China

09:30 Fr-O-3

ICPEPA-2023-000037

Advancing nanoparticle synthesis: unveiling laser fragmentation in liquid at atomistic scale, Hao Huang^{1,2}, Leonid Zhigilei^{1*}, ¹Materials Science and Engineering, University of Virginia, 395 McCormick Road, Charlottesville, Virginia 22904-4745, USA, ²School of Mechanical Science and Engineering, Huazhong University of Science and Technology, Wuhan 430074, China

09:45 Fr-O-4

ICPEPA-2023-000122

Resonant laser printing of large-area turing pattern metasurfaces, Shuangxiu Yuan¹, Xiaolong Zhu^{1*}, ¹State Key Laboratory of Precision Spectroscopy, School of Physics and Electronic Science, East China Normal University, Shanghai 200241, China

10:00 Fr-O-5

Student

ICPEPA-2023-000109

A simple method for preparing high concentration monodisperse colloidal gold, Shuxian Wei^{1,2}, Yixing Ye², Changhao Liang^{1,2}, ¹University of Science and Technology of China, Hefei 230026, China, ²Key Laboratory of Materials Physics and Anhui Key Laboratory of Nanomaterials and Nanotechnology, Institute of Solid State Physics, Chinese Academy of Sciences, Hefei 230031, China

10:15 Coffee Break

Two-dimensional materials

Chair: Yong Zhang (Nanjing University, China)

10:30 Fr-I-2

Invited

ICPEPA-2023-000067

Topological control of light in photonic lattices, Zhigang Chen^{1*}, ¹The MOE Key Laboratory of Weak-Light Nonlinear Photonics, TEDA Applied Physics Institute and School of Physics, Nankai University, Tianjin, China

11:00 Fr-O-6

ICPEPA-2023-000135

Unexpected photoelectric and photomagnetic transport properties of tungsten diselenide/two-dimensional electron gas heterojunction, Yucheng Jiang^{1*}, ¹Jiangsu Key Laboratory of Micro and Nano Heat Fluid Flow Technology and Energy Application, School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou 215009, China

11:15 Fr-O-7

ICPEPA-2023-000055

Polarized Raman scattering of Biaxial van der Waals α -MoO₃, Youning Gong^{1*}, Yanyu Zhao¹, Yupeng Zhang¹, Guoping Wang^{1*}, ¹State Key Laboratory of Radio Frequency Heterogeneous Integration, College of Electronics and Information Engineering, Shenzhen University, Shenzhen 518060, China

11:30 Fr-O-8

ICPEPA-2023-000052

Nonlinear photonics devices based on spatial self-phase modulation of black and violet phosphorus nanosheets, Bing Gu^{1*}, Yang Gao¹, Cheng Ling¹, Guanghao Rui¹, ¹Advanced Photonics Center, Southeast University, Nanjing 210096, China

11:45 Fr-O-9

ICPEPA-2023-000119

Near-unity singlet fission on a quantum dot initiated by resonant energy transfer, Jie Zhang^{1*}, ¹Department of Physics, College of Sciences, Shanghai University, Shanghai 200444, China

12:00 Lunch

Ultrafast laser internal processing of transparent materials

Chair: Wei Xiong (Huazhong University of Science and Technology, China)

14:00 Fr-I-3 [Online]

Invited

On the use of non-ablative femtosecond laser-matter interaction for tailoring materials properties, Yves Bellouard^{1*}, ¹Galatea Laboratory, IEM/STI, Ecole Polytechnique Fédérale de Lausanne (EPFL), Rue de la Maladière 71b, 2000 Neuchâtel, Switzerland

14:30 Fr-I-4

Invited

ICPEPA-2023-000093

Femtosecond laser writing of 3D $\chi^{(2)}$ structures in lithium niobate crystal, Yong Zhang^{1*}, ¹National Laboratory of Solid State Microstructures and College of Engineering and Applied Sciences, Nanjing University, Nanjing 210093, China

15:00 Fr-O-10

ICPEPA-2023-000059

Rapid manufacturing of glass-based digital nucleic acid amplification chips by ultrafast Bessel pulses, Jiawei Zhang¹, Kotaro Obata¹, Kazunari Ozasa¹, Takanori Uzawa², Yoshihiro Ito², Koji Sugioka^{1*}, ¹RIKEN Center for Advanced Photonics, 2-1 Hirosawa, Wako, Saitama, 351-0198, Japan, ²RIKEN Center for Emergent Matter Science, 2-1 Hirosawa, Wako, Saitama, 351-0198, Japan

15:15 Fr-O-11

Student

ICPEPA-2023-000087

SU-8 scaffolds fabricated by two photon polymerization for cancer cell invasion testing, Alexandra Bran^{1*}, Florin Jipa¹, Stefana Orobeti^{1,2}, Emanuel Axente¹, Livia Elena Sima², Felix Sima^{1,3*}, Koji Sugioka³, ¹CETAL, National Institute for Laser, Plasma and Radiation Physics, Atomistilor 409, Magurele, Ilfov, RO-077125, Romania, ²Institute of Biochemistry of Romanian Academy, 296 Splaiul Independentei, sector 6, Bucharest, 060031, Romania, ³RIKEN Center for Advanced Photonics, 2-1 Hirosawa, Wako, Saitama 351-0198, Japan

15:30 Fr-O-12

Student

ICPEPA-2023-000107

Measurement of intense stress wave generated by femtosecond laser double pulses in fused silica, Huijie Sun^{1*}, Junya Hattori¹, Tomohiro Fukui¹, Naohiko Sugita¹, Yusuke Ito¹, ¹Department of Mechanical Engineering, School of Engineering, The University of Tokyo, Bunkyo, Tokyo 113-8656, Japan

Closing

15:45 Closing Remarks-Chairs and Invited speakers

Poster Session

Sept. 19, 7:30-8:30 p.m. Poster Session I : odd number, P1、P3、... 、P71.

Sept. 21, 7:30-8:30 p.m. Poster Session II : even number, P2、P4、... 、P72.

Fundamental phenomena in laser-matter interactions

- | P-1 | Student | ICPEPA-2023-000137 |
|--|---------|--------------------|
| Exciton-nanocavity interactions enhanced by bloch surface waves, Bowen Fu ¹ , Xiulai Xu ^{1*} , ¹ Peking University, Beijing, China | | |
| P-2 | | ICPEPA-2023-000046 |
| Critical powers for self-focusing and filamentation of femtosecond Gaussian and vortex pulses in fused silica determined via spectral broadening analysis, Dongwei Li ¹ , Lanzhi Zhang ¹ , Tingting Xi ² , Yangjian Cai ¹ , Zuoqiang Hao ^{1*} , ¹ Shandong Provincial Engineering and Technical Center of Light Manipulations, School of Physics and Electronics, Shandong Normal University, Jinan 250358, China, ² School of Physical Sciences, University of Chinese Academy of Sciences, Beijing 100049, China | | |
| P-3 | Student | ICPEPA-2023-000125 |
| Electronic-resonance-enhanced coherent raman spectroscopy with a single femtosecond laser beam, Ning Zhang ^{1,2} , Hongqiang Xie ^{1,3*} , He Zhang ¹ , Xu Lu ^{1,2} , Yewei Chen ^{1,4} , Yuzhu Wu ^{1,5} , Ya Cheng ¹ , Jinping Yao ^{1*} , ¹ State Key Laboratory of High Field Laser Physics, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, 201800 Shanghai, China, ² University of Chinese Academy of Sciences, 100049 Beijing, China, ³ School of Science, East China University of Technology, 330013 Nanchang, China, ⁴ School of Optical-Electrical and Computer Engineering, University of Shanghai for Science and Technology, 200093 Shanghai, China, ⁵ School of Microelectronics, Shanghai University, 200444 Shanghai, China | | |
| P-4 | | ICPEPA-2023-000106 |
| Proposal for high-energy cutoff extension of optical harmonics of solid materials using the example of a one-dimensional ZnO crystal, Yue Lang ¹ , Z. Y. Peng ¹ , Zengxiu Zhao ^{1*} , Jinlei Liu ^{1*} , S. Ghimire ² , ¹ Department of Physics, National University of Defense Technology, China. ² Stanford PULSE Institute, SLAC national Accelerator Laboratory, Menlo Park, California 94025, USA | | |
| P-5 | Student | ICPEPA-2023-000130 |
| Unveiling the coupling effect of strain behavior and electro-optic property in nanodisordered KTN crystal, Xing Wen ¹ , Yu Wang ¹ , Xiangda Meng ¹ , Xiaolin Huang ¹ , Bohan Xing ¹ , Xinyu Jin ¹ , Zuoren Xiong ¹ , Chengpeng Hu ¹ , Peng Tan ^{1*} , Hao Tian ^{1, 2, 3} , ¹ School of Physics, Harbin Institute of Technology, Harbin 150001, China, ² Key Laboratory of Micro-Nano Optoelectronic Information System, Ministry of Industry and Information Technology, Harbin 150001, China, ³ Collaborative Innovation Center of Extreme Optics, Shanxi University, Taiyuan, China | | |
| P-6 | Student | ICPEPA-2023-000038 |
| Destructive interference in N₂⁺ lasing, Guihua Li ^{1*} , Hongqiang Xie ^{2,3} , Shuting Wu ¹ , Yihong Huang ¹ , ¹ School of Science, East China Jiaotong University, 330013, China, ² School of Science, East China university of Technology, Nanchang 330013, China, ³ Department of Physics, National University of Defense Technology, China | | |

- P-7 **Student** ICPEPA-2023-000072
Topological evolution of vector optical field in free space and nonlinear matter, Jiahao Zhao¹, Qiang Wang¹, Chenghou Tu^{1*}, Yongnan Li¹, Huitian Wang^{2,3}, ¹*School of Physics and Key Laboratory of Weak Light Nonlinear Photonics, Nankai University, Tianjin 300071, China*, ²*National Laboratory of Solid State Microstructures, Nanjing University, Nanjing 210093, China*, ³*Collaborative Innovation Center of Advanced Microstructures, Nanjing University, Nanjing 210093, China*
- P-8 ICPEPA-2023-000010
Measuring the topological charge of a vortex beam under extremely low coherence, J. Zeng^{1,2*}, Y. Cai^{1,2}, ¹*Shandong Provincial Engineering and Technical Center of Light Manipulation & Shandong Provincial Key Laboratory of Optics and Photonic Devices, School of Physics and Electronics, Shandong Normal University, Jinan 250358, China*, ²*Collaborative Innovation Center of Light Manipulation and Applications, Shandong Normal University, Jinan 250358, China*
- P-9 **Student** ICPEPA-2023-000003
Monolithically integrated active passive waveguide array fabricated on thin film lithium niobate using a single continuous photolithography process, Yuan Zhou^{1,2}, Y. Zhu³, Z. Fang^{3*}, S. Yu^{1,2}, T. Huang³, J. Zhou^{3,4}, R. Wu³, J. Liu³, Y. Ma^{1,2}, Z. Wang³, J. Yu^{1,2}, Z. Liu³, H. Zhang³, Z. Wang³, M. Wang³, Y. Cheng^{1,3,4,5,6,7*}, ¹*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*, ³*The Extreme Optoelectromechanics Laboratory (XXL), School of Physics and Electronic Science, East China Normal University, China*, ⁴*State Key Laboratory of Precision Spectroscopy, East China Normal University, Shanghai 200062, China*, ⁵*Collaborative Innovation Center of Extreme Optics, Shanxi University, Taiyuan 030006, China*, ⁶*Collaborative Innovation Center of Light Manipulations and Applications, Shandong Normal University, Jinan 250358, People's Republic of China*, ⁷*Hefei National Laboratory, Hefei 230088, China*
- P-10 ICPEPA-2023-000015
Measurement of optical coherence structures of random optical fields using generalized Arago spot experiment, Chunhao Liang^{1*}, ¹*Shandong Normal University, China*
- P-11 ICPEPA-2023-000063
Efficient optical harmonic generation from nonlinear moiré superlattices, Tingyin Ning^{1,2,3*}, Qingyang Yue^{1,2,3}, Yanyan Huo^{1,2,3}, Yingying Ren^{1,2,3}, Yangjian Cai^{1,2,3}, ¹*Shandong Provincial Engineering and Technical Center of Light Manipulations & Shandong Provincial Key Laboratory of Optics and Photonic Device, School of Physics and Electronics, Shandong Normal University, Jinan 250358, China*, ²*Collaborative Innovation Center of Light Manipulation and Applications, Shandong Normal University, Jinan 250358, China*, ³*Joint Research Center of Light Manipulation Science and Photonic Integrated Chip of East China Normal University and Shandong Normal University, East China Normal University, Shanghai 200241, China*
- P-12 **Student** ICPEPA-2023-000114
Ultra-narrowband filter based on the metal-cladding resonant waveguide, Hong Yang¹, Hailang Dai¹, Xianfeng Chen^{1*}, ¹*Shanghai Jiao Tong University, China*
- P-13 ICPEPA-2023-000095
Dynamic manipulation of graphene plasmonic skyrmions, Ni Zhang^{1,2*}, Xinrui Lei^{1,2}, Jiachen Liu^{1,2}, Qiwen Zhan^{1,2}, ¹*School of Optical-Electrical and Computer Engineering, University of Shanghai for Science and Technology, Shanghai 200093, China*, ²*Zhangjiang Laboratory, Chinese Academy of Science (CAS), 100 Haik Road, Shanghai 201204, China*
- P-14 ICPEPA-2023-000058
Manipulating the self-trapped excitons in Lead iodide-based Van der Waals Structures, Delong Li^{1*}, Na Han¹, Yupeng Zhang¹, Guoping Wang^{1*}, ¹*State Key Laboratory of Radio Frequency Heterogeneous Integration, College of Electronics and Information Engineering, Shenzhen University, Shenzhen 518060, China*

P-15	Student	ICPEPA-2023-000070
Broadband near-perfect absorber based on monolayer Ge-assisted metasurfaces , Haosen Zhang ¹ , Kedi Wu ^{1*} , ¹ College of Electronics and Information Engineering of Shenzhen University, China		
P-16		ICPEPA-2023-000071
Near-perfect absorber through quasi-bound states in the continuum , Kedi Wu ^{1*} , Haosen Zhang ¹ , ¹ State Key Laboratory of Radio Frequency Heterogeneous Integration, College of Electronics and Information Engineering, Shenzhen University, Shenzhen 518060, China		
P-17		ICPEPA-2023-000018
Resolving and weighing the quantum orbits in strong-field tunneling ionization , Jia Tan ^{1*} , S. Xu ² , Y. Zhou ² , ¹ School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou, 215009, China, ² School of Physics, Huazhong University of Science and Technology, Wuhan 430074, China		
P-18	Student	ICPEPA-2023-000088
Study of photoelectric storage and conversion in pn heterojunction , Bocheng Li ¹ , Guozhen Liu ^{1*} , ¹ Jiangsu Key Laboratory of Micro and Nano Heat Fluid Flow Technology and Energy Application, School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou 215009, China		
P-19	Student	ICPEPA-2023-000099
Weak measurement enhanced quantum coherence of a driven Unruh-DeWitt model in the linear acceleration motion , Jialing Xie ¹ , Xiang Hao ^{1*} , ¹ Jiangsu Key Laboratory of Micro and Nano Heat Fluid Flow Technology and Energy Application, School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou 215009, China		
P-20	Student	ICPEPA-2023-000133
Vector beam and atoms interaction in external magnetic fields , Yujie Sun ¹ , Yixin Ren ¹ , Ke Tian ¹ , Zhaoying Wang ^{1*} , ¹ Zhejiang Province Key Laboratory of Quantum Technology and Device, School of Physics, Zhejiang University, Hangzhou 310027, China		
P-21	Student	ICPEPA-2023-000138
Single charge control of localized excitons in heterostructures with ferroelectric thin films and two-dimensional transition metal dichalcogenides , Danjie Dai ¹ , Can Wang ¹ , Xiulai Xu ^{2*} , ¹ Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, Beijing 100190, China, ² State Key Laboratory for Mesoscopic Physics and Frontiers Science Center for Nano-optoelectronics, School of Physics, Peking University, 100871 Beijing, China		
P-22	Student	ICPEPA-2023-000141
Research on the direction of light transmission , Zhongsheng Man ^{1*} , Mingchao Zhu ¹ , Shuo Yang ¹ , Zhiwei Mi ¹ , Bochen Liu ¹ , Yepeng Sun ¹ , Wenxuan Wang ¹ , ¹ Shandong University of Technology, China		

Theoretical analysis, simulation and modelling of photo-excited processes

P-23	Student	ICPEPA-2023-000026
Atomistic modeling of pulsed laser ablation in liquid: phases of plume and channels of nanoparticle formation , Chaobo Chen ¹ , Leonid V. Zhigilei ^{1*} , ¹ Materials Science and Engineering, University of Virginia, 395 McCormick Road, Charlottesville, Virginia 22904-4745, USA		
P-24	Student	ICPEPA-2023-000086
Energy transfer mechanism in Tb³⁺ and Dy³⁺ co-doped AlN films , Xuan Luo ¹ , Xiaodan Wang ^{1*} , Xionghui Zeng ^{2*} , Hongmin Mao ¹ , Ke Xu ² , ¹ Jiangsu Key Laboratory of Micro and Nano Heat Fluid Flow Technology and Energy Application, School of Mathematics and Physics, Suzhou University of Science and Technology,		

Suzhou, Jiangsu 215009, PR China, ²Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, Suzhou, Jiangsu, 215123, China

Dynamics and diagnostics of photo-excited processes

P-25 ICPEPA-2023-000062

The edge and corner states in graphene-like moiré lattice, Chengzhen Lu¹, Zenrun Wen¹, Yuanmei Gao^{1*}, ¹Shandong Provincial Engineering and Technical Center of Light Manipulation & Shandong Provincial Key Laboratory of Optics and Photonic Devices, School of Physics and Electronics, Shandong Normal University, Jinan 250358, China

P-26 ICPEPA-2023-000094

Coherent acoustic vibrations of metallic nanoresonators and their applications, Kuai Yu^{1*}, G. P. Wang¹, ¹State Key Laboratory of Radio Frequency Heterogeneous Integration, College of Electronics and Information Engineering, Shenzhen University, Shenzhen 518060 China

P-27 **Student** ICPEPA-2023-000035

Broadband optical nonlinearity and all-optical switching features of low-defect GaN, Fangyuan Shi¹, Xingzhi Wu¹, Yunfei Lv¹, Zhanpeng Chen¹, Quanying Wu¹, Yu Fang^{1*}, ¹Jiangsu Key Laboratory of Micro and Nano Heat Fluid Flow Technology and Energy Application, School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou 215009, China

Laser- matter interactions in liquid environment

P-28 **Student** ICPEPA-2023-000074

Surface-plasmon-mediated alloying for monodisperse Au–Ag alloy nanoparticles in liquid, Ningning He^{1,2}, Shuxian Wei^{1,2}, Taiping Hu^{1,2}, Yixing Ye¹, Yunyu Cai¹, Jun Liu¹, Pengfei Li¹, Changhao Liang^{1,2}, ¹Key Laboratory of Materials Physics and Anhui Key Laboratory of Nanomaterials and Nanotechnology, Institute of Solid State Physics, Hefei Institutes of Physical Science, Chinese Academy of Sciences, Hefei 230031, China, ²Department of Materials Science and Engineering, University of Science and Technology of China, Hefei 230026, China

Resonant and non-resonant processes in photo/laser- induced materials

P-29 **Student** ICPEPA-2023-000131

Tunable terahertz slow light with hybrid coupling of a magnetic toroidal and electric dipole metasurface, Guanchao Wang¹, ¹Harbin Institute of Technology.

P-30 **Student** ICPEPA-2023-000036

An electromagnetic modulator based on electrically controllable meta-molecule analogue to spontaneous emission cancellation, Lei Gao¹, Lei Yang¹, Rui Jiang¹, Yongqiang Chen^{1*}, ¹Jiangsu Key Laboratory of Micro and Nano Heat Fluid Flow Technology and Energy Application, School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou 215009, China

Photo/laser- induced nanoscale processing

- P-31 **Student** ICPEPA-2023-000017
Electro-optically tunable low phase-noise microwave synthesizer in an active lithium niobate microdisk, Renhong Gao¹, Botao Fu^{1,2}, Ni Yao³, Jianglin Guan⁴, Haisu Zhang⁴, Jintian Lin^{1*}, Chuntao Li⁴, Min Wang⁴, Lingling Qiao¹, Ya Cheng^{1,4*}, ¹Shanghai Institute of Optics and Fine Mechanics (SIOM), Chinese Academy of Sciences (CAS), China, ²School of Physical Science and Technology ShanghaiTech University, China, ³Research Center for Humanoid Sensing, Zhejiang Lab, China, ⁴The Extreme Optoelectromechanics Laboratory (XXL), East China Normal University, China
- P-32 **Student** ICPEPA-2023-000009
Monolithically integrated high-power narrow-bandwidth microdisk laser, Jianglin Guan^{1,2}, Chuntao Li^{1,2}, Renhong Gao³, Haisu Zhang^{1,2}, Jintian Lin^{3*}, Minghui Li³, Min Wang^{1,2}, Lingling Qiao³, Li Deng^{1,2}, Ya Cheng^{1,2,3*}, ¹State Key Laboratory of Precision Spectroscopy, East China Normal University, Shanghai, China, ²The Extreme Optoelectromechanics Laboratory, School of Physics and Materials Science, East China Normal University, Shanghai, China, ³State Key Laboratory of High Field Laser Physics and CAS Center for Excellence in Ultra-Intense Laser Science, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, Shanghai, China
- P-33 **Student** ICPEPA-2023-000012
An electro-optically tunable optical delay line with a continuous tuning range of ~220 fs in thin-film lithium niobate, Lybin Song^{1,2}, Jinming Chen², Rongbo Wu², Yong Zheng^{1,2}, Zhaoxiang Liu², Guanhua Wang^{1,2}, Chao Sun^{1,2}, Min Wang², Ya Cheng^{1,2*}, ¹State Key Laboratory of Precision Spectroscopy, East China Normal University, Shanghai 200062, China, ²The Extreme Optoelectromechanics Laboratory (XXL), School of Physics and Electronic Science, East China Normal University, Shanghai 200241, China
- P-34 **Student** ICPEPA-2023-000144
Electro-optic tuning of a single-frequency ultranarrow linewidth microdisk laser, Li Deng¹, Jintian Lin^{2*}, Ya Cheng^{1,2*}, Renhong Gao², Jianglin Guan¹, Chuntao Li¹, Minghui Li¹, Guanghui Zhao², Qian Qiao², ¹East China Normal University, School of Physics and Electronic Science, XXL—The Extreme Optoelectromechanics Laboratory, Shanghai 2000241, China, ²Chinese Academy of Sciences (CAS), Shanghai Institute of Optics and Fine Mechanics (SIOM), State Key Laboratory of High Field Laser Physics and CAS Center for Excellence in Ultra-Intense Laser Science, Shanghai, China

Surface nanostructuring and nanoripple formation

- P-35 **Student** ICPEPA-2023-000091
Femtosecond laser-induced surface subwavelength 2D nanostructures on lithium niobate, Xinda Jiang¹, Qiang Wu^{1*}, Yaoyao Liu¹, Jingjun Xu¹, ¹Key Laboratory of Weak-Light Nonlinear Photonics, Ministry of Education, TEDA Institute of Applied Physics and School of Physics, Nankai University, Tianjin 300457, China
- P-36 **Student** ICPEPA-2023-000132
Femtosecond laser induced periodic surface structures in Ag film on tungsten substrate, Chen Li^{1,2,3*}, Junliang Zhao^{2,3}, ¹School of Mechanical and Electrical Engineering, Shaanxi University of Science and Technology, Xi'an 710021, China, ²School of Mechanical Engineering, Xi'an Jiaotong University, Xi'an 710049, China, ³State Key Laboratory of Mechanical Manufacturing System Engineering, Xi'an Jiaotong University, Xi'an 710054, China
- P-37 **Student** ICPEPA-2023-000014
Frustrated layered self-assembly induced superlattice from two-dimensional nanosheets, Huanjun Lu^{1*}, Y. Tu², G. Ungar³, ¹School of Physical Science and Technology, Suzhou University of Science and Technology,

Suzhou, 215009, China, ²College of Chemistry, Chemical Engineering and Materials Science, Soochow University, Suzhou 215123, China, ³Department of Materials Science and Engineering, University of Sheffield, Sheffield S1 3JD, United Kingdom

P-38 **Student** ICPEPA-2023-000053

Improvement of time stability of sers substrate with a simple external oxygen barrier method, Congxi Song¹, Xiaoping Li², Zhihui Jiang¹, Shen Zhang¹, Hongmin Mao¹, Xin Zhao³, Huanjun Lu¹, Zhaoliang Cao¹, ¹Jiangsu Key Laboratory of Micro and Nano Heat Fluid Flow Technology and Energy Application, School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou, 215009, China, ²Basic Department, Jiyuan Vocational and Technical College, Jiyuan 454682, China, ³School of Chemistry and Life Sciences, Suzhou University of Science and Technology, Suzhou 215009, China

P-39 **Student** ICPEPA-2023-000102

Single-tungsten-atom oxide anchored on titanate nanotube for single-site raman enhancement, Jinyu Zhou¹, Chunlan Ma¹, Shan Cong², ¹Jiangsu Key Laboratory of Micro and Nano Heat Fluid Flow Technology and Energy Application, School of Mathematics and Physics, Suzhou University of Science and Technology, ²Key Laboratory of Nano-Devices and Applications, Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, Ruoshui Road 398, Suzhou 215123, China

Plasmon- enhanced photo/laser processing

P-40 **Student** ICPEPA-2023-000034

Development of TiO₂ nano-porous films with Ag nanoislands for plasmon assisted photocatalytic devices, Hiroki Matsunaga^{1*}, Kaoru Suzuki², Satoshi Kurumi², ¹School of Science and Technology, Nihon University, Japan, ²College of Science and Technology, Nihon University, Japan

P-41 **Student** ICPEPA-2023-000080

Giant photoluminescence enhancement in a double resonant plasmonic nanocavity: synchronous operation of the excitation, radiation and collection processes, Chenyang Li¹, Fajun Xiao^{1*}, Jianlin Zhao^{1*}, ¹Key Laboratory of light-field manipulation and information acquisition, Ministry of Industry and Information Technology, and Shaanxi Key Laboratory of Optical Information Technology, School of Physical Science and Technology, Northwestern Polytechnical University, Xi'an 710129, China

Pulsed laser deposition (PLD) of thin films, multilayers and nanostructured materials

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Cooling colors below the ambient temperature based on multilayers, Wanlin Wang¹, Hongyun Xing¹, Xiaochi Shu¹, Guoping Wang^{1*}, Zhang Wang^{2*}, ¹College of Electronics and Information Engineering, Shenzhen University, Shenzhen, 518060, China, ²State Key Laboratory of Metal Matrix Composites, Shanghai Jiao Tong University, Shanghai, 200030, China

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Molybdenum nitride films as carrier-selective contacts for crystalline silicon solar cells, Yajuan Li^{1,2,3}, Yuxiong Li², Chunping Jiang², Peter Müller-Buschbaum⁴, Baoquan Sun^{3*}, ¹School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou 215009, ²Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences (CAS), Suzhou 215123, ³Institute of Functional Nano & Soft

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| Three-dimensional second-harmonic computer-generated hologram inside monolithic lithium niobate crystal by femtosecond laser micromachining, Zhiwei Wei¹, Honghuan Tu¹, Feiyang Shen¹, Yuping Chen^{1*}, Xianfeng Chen^{1,2,3}, ¹ State Key Laboratory of Advanced Optical Communication Systems and Networks, School of Physics and Astronomy, Shanghai Jiao Tong University, Shanghai 200240, China, ²Shanghai Research Center for Quantum Sciences, Shanghai 201315, China, ³Collaborative Innovation Center of Light Manipulations and Applications, Shandong Normal University, Jinan 250358, China | | |
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| Correlation between stress state and nanomorphology of femtosecond laser-induced modification in fused silica, Yunpeng Song¹, Jian Xu^{1*}, Ya Cheng^{1,2*}, ¹State Key Laboratory of Precision Spectroscopy, School of Physics and Electronic Science, East China Normal University, Shanghai 200241, China, ²State Key Laboratory of High Field Laser Physics, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences, Shanghai 201800, China | | |
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| Hybrid laser microfabrication of fused silica microchannels for microdroplet generation, Aodong Zhang¹, Jian Xu^{1*}, Xin Li¹, Yuxuan Shao¹, Ya Cheng^{1*}, ¹Extreme Optoelectromechanics Laboratory (XXL), School of Physics and Electronic Science, East China Normal University, Shanghai, China | | |
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| On-chip single-mode thin film lithium niobate Fabry-Pérot resonator laser based on Sagnac loop reflectors, Shupeng Yu^{1,2}, Zhiwei Fang^{3*}, Ya Cheng^{1,3*}, ¹State Key Laboratory of High Field Laser Physics and CAS Center for Excellence in Ultra-intense Laser Science, Shanghai Institute of Optics and Fine Mechanics (SIOM), Chinese | | |

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ICPEPA-2023-000005

Wavelength-tunable narrow-linewidth laser diode based on self-injection locking with a high-Q lithium niobate microring resonator, T. Huang¹, Y. Ma^{2,3}, Z. Fang^{1,4*}, J. Zhou^{1,5}, Y. Zhou^{2,3}, Z. Wang¹, J. Liu¹, Z. Wang¹, H. Zhang¹, M. Wang¹, J. Xu^{1,4*}, Y. Cheng^{1,2,4,5,6,7*}, ¹The Extreme Optoelectromechanics Laboratory (XXL), School of Physics and Electronic Science, East China Normal University, Shanghai 200241, China, ²State Key Laboratory of High Field Laser Physics and CAS Center for Excellence in Ultra-Intense Laser Science, Shanghai Institute of Optics and Fine Mechanics (SIOM), Chinese Academy of Sciences (CAS), Shanghai 201800, China, ³Center of Materials Science and Optoelectronics Engineering, University of Chinese Academy of Sciences, Beijing 100049, China, ⁴Hefei National Laboratory, Hefei 230088, China, ⁵State Key Laboratory of Precision Spectroscopy, East China Normal University, Shanghai 200062, China, ⁶Collaborative Innovation Center of Extreme Optics, Shanxi University, Taiyuan 030006, China, ⁷Collaborative Innovation Center of Light Manipulations and Applications, Shandong Normal University, Jinan 250358, China

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Mode-switchable ultrafast vortex laser, Xuehong Cao^{1,2}, Luyang Tong^{1,2}, Zhikang Niu^{1,2}, Yixuan Zhu^{1,2}, Yangjian Cai^{1,2*}, Lina Zhao^{1,2*}, ¹College of Physics and Electronics, Center of Light Manipulations and Applications, Shandong Provincial Key Laboratory of Optics and Photonic Device, Shandong Normal University, Jinan 250358, China, ²Collaborative Innovation Center of Light Manipulation and Applications, Shandong Normal University, Jinan 250358, China.

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Generation of non-uniformly correlated sources with controllable beam profile by devising its statistics in the spatial frequency domain, Jing Liang¹, Gaofeng Wu^{1*}, Fei Wang², Yangjian Cai³, ¹School of Physics, Northwest University, Xi'an 710069, China, ²School of Physical Science and Technology, Soochow University, Suzhou 215006, China, ³Shandong Provincial Engineering and Technical Center of Light Manipulation and Shandong Provincial Key Laboratory of Optics and Photonic Devices, School of Physics and Electronics, Shandong Normal University, Jinan 250014, China

Manipulated/shaped beam processing

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Multifunctional transmission polarization conversion metasurface based on dislocation-induced anisotropy at the terahertz frequency, Wenpeng Guo¹, Peng Tan^{1*}, Jing Wang¹, Li Li¹, Shuai Li¹, Guanchao Wang¹, Zhongxiang Zhou¹, Hao, Tian^{1,2,3*}, ¹School of Physics, Harbin Institute of Technology, Harbin 150001, China, ²Key Laboratory of Micro-Nano Optoelectronic Information System, Ministry of Industry and Information Technology, Harbin 150001, China, ³Collaborative Innovation Center of Extreme Optics, Shanxi University, Taiyuan, Shanxi 030006, China

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Cycloid optical vortex array, Xin Ma¹, Hao Zhang¹, Xinzhong Li^{1*}, ¹Henan University of Science and Technology, Luoyang, 471023, China

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On-demand subwavelength-scale light sculpting, Xiliang Zhang¹, Yanwen Hu¹, Shenhe Fu^{1*}, ¹Department of Optoelectronic Engineering, Jinan University, Guangzhou, 510632, China

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Control of orbital angular momentum with partially coherent vortex beams, Yongtao Zhang^{1*}, Yangjian Cai², Greg Gbur³, ¹College of Physics and Information Engineering, Minnan Normal University, Zhangzhou 363000, China, ²Shandong Provincial Engineering and Technical Center of Light Manipulations & Shandong Provincial Key Laboratory of Optics and Photonic Devices, School of Physics and Electronics, Shandong Normal University, Jinan 250358, China, ³Department of Physics and Optical Science, University of North Carolina at Charlotte, Charlotte, North Carolina 28277, USA

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Single-shot temporal compressive polarization microscopy for quantifying Jones matrix of high-speed dynamic object, Qingyang Yue^{1,2,3*}, ¹Shandong Provincial Engineering and Technical Center of Light Manipulations & Shandong Provincial Key Laboratory of Optics and Photonic Device, School of Physics and Electronics, Shandong Normal University, Jinan 250014, China, ²Collaborative Innovation Center of Light Manipulation and Applications, Shandong Normal University, Jinan 250358, China, ³Joint Research Center of Light Manipulation Science and Photonic Integrated Chip of East China Normal University and Shandong Normal University, East China Normal University, Shanghai 200241, China

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Radially polarized twisted partially coherent vortex beams, X. Peng^{1*}, Y. Cai¹, ¹Shandong Provincial Engineering and Technical Center of Light Manipulations & Shandong Provincial Key Laboratory of Optics and Photonic Device, School of Physics and Electronics, Shandong Normal University, Jinan 250014, China

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Longitudinal optical trapping and manipulating Rayleigh particles by spatial nonuniform coherence engineering, Jiayi Yu^{1*}, Yangjian Cai¹, ¹Shandong Provincial Engineering and Technical Center of Light Manipulation & Shandong Provincial Key Laboratory of Optics and Photonic Devices, School of Physics and Electronics, Collaborative Innovation Center of Light Manipulation and Applications, Shandong Normal University, Jinan 250358, China

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Creation of cylindrical vector beams through highly anisotropic scattering media with a single scalar transmission matrix calibration, Qian Zhao^{1*}, Shijie Tu¹, Qiannan Lei¹, Chengshan Guo¹, Qiwen Zhan², Yangjian Cai¹, ¹Shandong Provincial Engineering and Technical Center of Light Manipulations & Shandong Provincial Key Laboratory of Optics and Photonic Device, School of Physics and Electronics, Shandong Normal University, Jinan 250358, China, ²School of Optical-Electrical and Computer Engineering, University of Shanghai for Science and Technology, Shanghai 200093, China.

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Multimode Vortex Lasing from Dye-TiO₂ Lattices, Xianyu Ao^{1*}, Yangjian Cai¹, ¹Shandong Provincial Engineering and Technical Center of Light Manipulations & Shandong Provincial Key Laboratory of Optics and Photonic Device, School of Physics and Electronics, Shandong Normal University, Jinan 250014, China

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0–360 degrees angular measurements using spatial displacement, Yangsheng Yuan^{1,2,3*}, Didi Xu^{1,2,3}, Yangjian Cai^{1,2,3}, ¹Shandong Provincial Engineering and Technical Center of Light Manipulations & Shandong Provincial Key Laboratory of Optics and Photonic Device, School of Physics and Electronics, Shandong Normal University, Jinan 250014, China, ²Collaborative Innovation Center of Light Manipulation and Applications, Shandong Normal University, Jinan 250358, China, ³Joint Research Center of Light Manipulation Science and Photonic Integrated Chip of East China Normal University and Shandong Normal University, East China Normal University, Shanghai 200241, China

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Self-aligned STED-DLW with depletion beam polarization focus shaping, Guoliang Chen¹, Jian Chen¹, Qiwen Zhan¹, ¹University of Shanghai for Science and Technology, Shanghai, 200093, China

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Sparse aperture optical system with a rectangular field of view, Junliu Fan¹, Quanying Wu^{1*}, Baohua Chen¹, Jun Wang², ¹*School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou, 215009, Jiangsu, China*, ²*School of Electronic and Optical Engineering, Nanjing University of Science and Technology, Nanjing 210094, Jiangsu, China*

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Design of an optical system for generating ring-shaped laser beam, Baohua Chen¹, Quanying Wu^{1*}, Junliu Fan¹, Yunhai Tang¹, ¹*School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou, Jiangsu 215009, China*

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Experimental synthesis and measurement of partially coherent beam with controllable twist phase, Haiyun Wang¹, Lin Liu^{2*}, Fei Wang^{2*}, Yangjian Cai^{3*}, ¹*School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou 215009, China*, ²*School of Physical Science and Technology & Collaborative Innovation Center of Suzhou Nano Science and Technology, Soochow University, Suzhou 215006, China*, ³*Shandong Provincial Engineering and Technical Center of Light Manipulations & Shandong Provincial Key Laboratory of Optics and Photonic Devices, School of Physics and Electronics, Shandong Normal University, Jinan 250014, China*

Polarisation effects in laser processing

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Fabrication of arbitrary-shaped fused silica microchannels using polarization-insensitive femtosecond laser assisted etching, Jianping Yu¹, Jian Xu¹, Ya Cheng^{1,2*}, ¹*The Extreme Optoelectromechanics Laboratory, School of Physics and Electronic Science, East China Normal University, Shanghai, China*, ²*State Key Laboratory of High Field Laser Physics and CAS Center for Excellence in Ultra-intense Laser Science, Shanghai Institute of Optics and Fine Mechanics (SIOM), Chinese Academy of Science (CAS), Shanghai 201800, China*

Laser and photon-based diagnostic techniques and spectroscopy

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Near-infrared speckle wavemeter based on nonlinear frequency conversion, Yiwei Sun¹, Fengchao Ni¹, Yiwen Huang¹, Haigang Liu^{1*}, Xianfeng Chen^{1,2,3*}, ¹*State Key Laboratory of Advanced Optical Communication Systems and Networks, School of Physics and Astronomy, Shanghai Jiao Tong University, China*, ²*Shanghai Research Center for Quantum Sciences, China*, ³*Collaborative Innovation Center of Light Manipulations and Applications, Shandong Normal University, China*

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Research on YOLOv1-based anti-stray light fast star image extraction algorithm for star sensors, C. Wang¹, Q. Wu¹, F. Wu^{2*}, ¹*School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou 215006, China*, ²*School of Electrical and Information Engineering, Changzhou Institute of Technology, Changzhou 213002, China*

Laser in medical and biological applications

P-70 **Student** ICPEPA-2023-000090

Research on light field reconstruction of light sheet fluorescence microscopy, Hongxin Li^{1,2}, Ying Jin^{2*}, Quanying Wu^{1*}, Guohai Situ², ¹*School of Physical Science and Technology, Suzhou University of Science and Technology, China*, ²*Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Science, China*

P-71 **Student** ICPEPA-2023-000084

Regional optimal design of progressive additional lenses, Yuechen Shen¹, Quanying Wu^{1*}, Yunhai Tang¹, ¹*Jiangsu Key Laboratory of Micro and Nano Heat Fluid Flow Technology and Energy Application, School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou 215009, Jiangsu, China*

Surface modification including crystallization, annealing, amorphization, phase transformation, sintering and doping

P-72 **Student**

Novel phase exploration and magnetocaloric effect of rare earth compounds $R_5\text{GaSb}_3$ (R=rare-earth atoms), Yang Hu¹, Jinlei Yao^{1*}, ¹*Jiangsu Key Laboratory of Micro and Nano Heat Fluid Flow Technology and Energy Application, School of Physical Science and Technology, Suzhou University of Science and Technology, Suzhou 215009, China*

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