

Morning, June 16th, 2021

Science Island
Tour
08:30-11:30

1. EAST- Experimental Advanced Superconducting Tokamak
2. SHMFF-Steady High Magnetic Field Facility
3. ISSP-Institute of Solid State Physics, Chinese Academy of Sciences (CAS)

12:00-13:00 Lunch Break

Afternoon, June 16th, 2021

Opening
14:30-14:50

Changhao Liang	Welcome speech	14:30-14:40
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Stephan Barcikowski	Opening remark	14:40-14:50
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Topic: laser processing in liquids
Chairman: Prof. Georgy Shafeev

Memory talk
14:50-15:20

Anton Fojtik Czech Republic	Laser for NANO: Pioneering pulsed laser synthesis of colloids
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15:20-15:40	Sergey I. Kudryashov Russia	Novel criterion of laser-ablative nanoparticle yield in liquids: a route to quantitative technology
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15:40-16:00	Nikolai Tarasenko Belarus	Laser processing of colloids: application for compound nanoparticles fabrication and doping
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16:00-16:20	Spellaugé Maximilian Germany	Early stage ablation dynamics of gold in air and water monitored by ultrafast pump-probe microscopy
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16:20-16:40	David Amans France	Surface chemistry of colloidal gold nanoparticles generated by laser ablation
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16:40-16:55 **Coffee Break**

Topic: laser induced advanced nanostructures in liquids-I
Chairman: Prof. Tsuyoshi Asahi

Invited
16:55-17:20

Alina Manshina Russia	Low intense laser irradiation of substrate/solution interface as a single step synthesis of hybrid metal/carbon nanostructures
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17:20-17:40	Hongqiang Wang China	Laser-Generated Nano-Colloids for High Performance Perovskite Solar Cells
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17:40-18:00	Rafael O. T. Mendieta Czech Republic	Laser-mediated Ag nanoparticle decoration of PVDF nanofibrous membranes for an efficient oil/water separation
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18:00-18:20	Vincenzo Amendola Italy	Synthesis by laser ablation in liquid of alloy nanoparticles: controlling the structure and the composition for specific applications
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18:20-18:40	Alena Nastulyavichus Russia Student	Fighting pathogenic bacterial biofilms by bactericidal nanoparticles
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18:40-21:00 **Welcome Banquet**

20:00-21:00 **PC&IAB Meeting**

Morning, June 17th, 2021

Topic: Laser processing involved dynamics
Chairman: Prof. Hongqiang Wang

08:30-08:50	Leonid V. Zhigilei America	The effect of pulse duration on nanoparticle generation in pulsed laser ablation in liquids: Molecular dynamics study.
08:50-09:10	Alejandro Morales Betancourt America Student	Formation of MoSe ₂ Nanosheets and Nanoscrolls obtained from Pulsed Laser Ablation in Deep Eutectic Solvent (PLADES)
09:10-09:30	Chaobo Chen America Student	Structure of Fe-Ni nanoparticles produced by laser ablation in water
Invited 09:30-09:55	Hui Liu China	preparation of metastable metal catalysts with high performance through laser ablation in liquid method
09:55-10:15	Yichun Wang China Student	Experimental study of femtosecond laser cavitation on gas productivity and composition

**Journals
Publicity**
10:15-10:30

1. Wei Wang--Science China Physics, Mechanics & Astronomy
2. Jiali Xu--Opto-Electronic Advances
3. Jiuli Wang--Chinese Physics B

10:30-10:45 **Coffee Break**

Topic: Laser induced advanced semiconductors
Chairman: Prof. Bingqiang Cao

Invited 10:45-11:10	Dezhi Tan China	Highly defective nanocrystals as ultrafast optical switches: nonequilibrium synthesis and efficient nonlinear optical response
11:10-11:30	Takamasa Ishigaki Japan	Influence of Hydrogen Peroxide Addition on Phase formation in Mn-doped TiO ₂ Nanoparticles Prepared by Laser Ablation in Aqueous Solutions
11:30-11:50	Changhao Liang China	Construction of Metal-oxides Interfaces Assisted by Laser irradiation for enhanced electrochemical performance
11:50-12:10	Pu Liu China	LAL produced GQD-decorated ultrathin-Bi ₂ WO ₆ nanosheet hydrogel composite with excellent synergistic effect of piezo-photocatalytic degradation
12:10-12:30	Mehdi Ranjbar Iran	Decorated WO _x nanoparticles by laser assisted reduction in solutions for optical gas sensing
Flash Talk 1 12:30-12:40		<ol style="list-style-type: none">1. Zhe Li (China)--Stable Rhodium (IV) Oxide for Alkaline Hydrogen Evolution Reaction2. Le Zhou (China)--Onion-structured Spherical MoS₂ Nanoparticles Induced by Laser Ablation in Water and Liquid Droplets' Radial Solidification/Oriented Growth Mechanism3. Sihan Ji (China)--Laser assisted synthesis of porous Mn₃O₄/PtO_x nanocomposite for MRI and CT bimodal imaging

12:45-13:45 **Lunch Break**

Afternoon, June 17th, 2021

Topic: laser induced advanced nanostructures in liquids-II

Chairman: Prof. Vincenzo Amendola

Invited 14:30-14:55	Heinz P. Huber Germany	Ultrafast time-resolved studies on laser ablation of metals in air and liquid
14:55-15:15	Georgy Shafeev Russia	Generation of nanoparticles of phthalocyanines and their nanocomposites with gold nanoparticles by laser fragmentation in liquids
15:15-15:35	Takeshi Tsuji Japan	Preparation of gel-like structures using laser ablation for CaO in alcohols.
15:35-15:55	Natalie Tarasenko Belarus	Laser Assisted Synthesis of Cobalt-Doped Zinc Oxide Nanostructures
15:55-16:15	Vittorio Scardaci Italy	Monochromatic Light Driven Synthesis and Growth of Flat Silver Nanoparticles
16:15-16:35	Vladimir Shur Russia	Shape control of metal oxide nanoparticles produced by laser ablation in liquid
16:35-16:50	Coffee Break	

Topic: Modulation of laser processing in liquids

Chairman: Prof. David Amans

Invited 16:50-17:15	Nail Inogamov Russia	Laser ablation of gold in water by short and long pulses
17:15-17:35	Bilal Gökce Germany	Ablation target effects on nanoparticle productivity during laser ablation in liquids
17:35-17:55	Alexander Bulgakov Czech Republic	Laser-induced damage effects in opaque solids: Comparison of air and water environments
17:55-18:15	Matej Senegacnik Slovenia student	Cavitation bubble dynamics following laser-induced breakdown near a sharp-edge geometry
18:15-18:35	Carlos Doñate-Buendía Germany	Laser synthesis of colloidal nanoparticles and their adsorption on polymer microparticles for laser powder bed fusion.
Flash Talk 2 18:35-18:48	<ol style="list-style-type: none">1. Marcello Condorelli (Italy)--Oxidation dynamics of copper nanoparticles under laser irradiation in the colloidal phase2. Zhanna Fedorovich (Russia)--Study of Highly Defective Titanium Dioxide Prepared via Pulsed Laser Ablation3. Anna Ziefuss (Germany)--Impact of electrolytes on particle size distributions of gold nanoclusters fabricated by nanosecond-pulsed laser fragmentation in liquids. & In-situ pulsed X-ray scattering of picosecond laser fragmentation4. Oliwia Polit (Poland)--Physico-chemical processes in laser synthesis of composite particles based on iron (Fe)	
18:48-20:00	Dinner	

Morning, June 18th, 2021

Topic: Application of laser generated nanoparticles/nanostructures in liquids-I

Chairman: Prof. Takeshi Tsuji

Invited 08:30-08:55	Wei Qian America	Plasmonic Metal Nanoparticles Generated by Femtosecond Pulsed Laser Ablation for Biomedical Optical and Photoacoustic Imaging
08:55-09:15	Sadasivan Shaji Mexico	Synthesis and properties of nanocomposite thin films of Sb ₂ S ₃ with Si nanoparticles
09:15-09:35	Dongling Ma Canada	The application of laser-fabricated nanoparticles in photocatalysis
09:35-09:55	Tsuyoshi Asahi Japan	Fabrication of Porphyrin Nanoparticles and Their Phototoxicity to Rat Pheochromocytoma PC12 Cells
09:55-10:15	Miao Zhong China	Nanoporous Cu-Al catalyst for efficient electrochemical reduction of CO ₂ to ethylene

Flash Talk 3

10:15-10:25

1. Ashish Nag ([America](#))--One Step Bottom-Up Synthesis of Carbon-Supported Ultrasmall Metastable Ni Nanoparticles
2. Laysa Frias Batista ([America](#))--Synthesis of Catalytically Active Naked Palladium Nanoparticles Via Laser Plasma
3. Rajesh Rawat ([India](#))--Synthesis of Cu/CuO Nanoparticles using Laser Ablation: Effect of Fluence and Solvents

10:25-10:40

Coffee Break

Topic: laser induced advanced nanostructures in liquids-III

Chairman: Prof. Changhao Liang

Invited 10:40-11:05	Dongshi Zhang China	What did we neglect to study on particle generation during laser ablation in liquids?
11:05-11:25	Bingqiang Cao China	Metal Nanospheres Grown by Laser Irradiation with Enhanced Tribology Properties
11:25-11:45	Haohao Wang China	Effect of Atomicity on Oxidation of Cationic Copper Clusters Studied Using Thermal Desorption Spectrometry
11:45-12:05	Haoming Bao China	Ultrathin oxide layer wrapped plasmonic metal nanoparticles prepared by laser ablation in solution for ultrasensitive gas detection
12:05-12:25	Ameneh Farnood Iran Student	Au@Pd colloidal nanoparticles by laser ablation in liquid for LSPR hydrogen sensing

12:25-13:25

Lunch Break

Afternoon, June 18th, 2021

Topic: Advanced characterization for laser processing in liquids
Chairman: Prof. Nikolai Tarasenko

Invited
14:30-14:55 Norbert Linz
[Germany](#) Design and development of time-resolved photography for the investigation of primary processes in gold nanoparticle generation

14:55-15:15 Arsène Chemin
[France](#) **Student** Shock-Waves Generated by Laser ablation in Liquids. & Time Resolved LIBS-LIF measurements on Laser-Generated Plasma

15:15-15:35 Morihisa Saeki
[Japan](#) In Situ Time-Resolved XAFS Study on Laser-Induced Particle Formation of Pd(II) Ion in a Solution

15:35-15:55 Anton Plech
[Germany](#) In situ mass evaluation and speciation in laser ablation of Zn in water

15:55-16:15 Hao Huang
[America](#) **Student On-site** Molecular dynamics simulation study of laser fragmentation in liquid

Flash Talk 4
16:15-16:27

1. Reza Poursalehi ([Iran](#))--Optical and Structural Properties of Bi/Bi₂O₃ Nanoparticles Prepared via Pulsed Laser Ablation in Different Liquids
2. Vito Coviello ([Italy](#))--Study of the relationship between the plasmonic properties and the electronic properties in Au-Co nanoalloys obtained by laser ablation in liquid
3. Vijayanthi Ramesh ([Germany](#))--Electrophoretic deposition of laser-generated Platinum Nanoparticles on neural prostheses
4. Carlos Doñate-Buendía ([Germany](#))--Femtosecond pulsed laser ablation in liquids nanoparticle production increase by simultaneous spatial and temporal focusing

16:27-16:40 **Coffee Break**

Topic: Application of laser generated nanoparticles/nanostructures in liquids-II
Chairman: Prof. Giuseppe Compagnini

16:40-17:00 Luisa D'Urso
[Germany](#) Photo-efficiency of TiO₂-Metal nanocatalysts prepared by pulsed laser ablation for oxidation of industrial water pollutants

17:00-17:20 Elena Fakhruddinova
[Russia](#) PLA Synthesis and Photocatalytic Properties of Bismuth Silicates

17:20-17:40 Sven Reichenberger
[Germany](#) Pulsed laser defect engineering in liquid (PuDEL) of transition metal oxides for gradual heterogenous catalysis studies

17:40-18:00 Margarita Zhilnikova
[Russia](#) **Student** Generation of gold metallic nanoparticles by laser ablation in molten salts

18:00-18:20 Irina N. Saraeva
[Russia](#) You shall not pass: titanium nanospikes-based flow-through filter for liquid sterilization

Decennial Awards & Fojtik-Henglein Prize

Closing
18:20-18:50 Next ANGEL Information & Call for paper

Closing remark