



7th International Conference on Advanced Nanoparticle Generation and Excitation by Lasers in Liquids (ANGEL)

Charlottesville, Virginia, USA, May 26-31, 2024

Premier international conference focused on laser-materials interaction in liquids
First time in the USA (Switzerland in 2010, Italy in 2012, Japan in 2014, Germany in 2016, France in 2018, China in 2021)



We are looking forward to welcoming you in Charlottesville, home to the University of Virginia, which was founded by Thomas Jefferson in 1819 as one of the first public universities in the country.

Venue: Charlottesville Omni Hotel adjacent to the historic downtown pedestrian mall.

Program: The program will consist of four days of oral and poster sessions. Best poster and oral presentations will be selected for awards.



Research topics include

Fundamentals of laser-materials interaction in liquids

Experimental probing, computer simulations
Defect engineering, metastable phases & structures

Laser synthesis and processing of colloidal nanoparticles

Laser ablation in liquids
Laser fragmentation in liquids
Laser melting in liquids
Reactive laser ablation in liquids
Laser reductive particle synthesis in liquids

Applications of laser-generated particles

Catalysis, energy conversion, optics, plasmonics, biomedical applications, additive manufacturing



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Invited Speakers:

Yunyu Cai, Hefei Institute of Physical Sciences, Chinese Academy of Sciences, Institute of Solid State Physics, China
Structure modulation of hydrous iron oxide nanodots by laser irradiation for application as MRI contrast agent

Costas P. Grigoropoulos, University of California, Berkeley, USA
Fundamental studies of femtosecond laser ablation by single and GHz train of pulses

Gregory Guisbiers, School of Physical Sciences, University of Arkansas at Little Rock, USA
Designing nano-drugs by pulsed laser ablation in liquids

Kelly L. Nash, University of Texas at San Antonio, USA
Pulsed laser ablation in deep eutectic solvents

Changyong Song, Pohang University of Science and Technology (POSTECH), South Korea
Ultrafast time-resolved X-ray imaging of nanoparticle melting and disintegration

Emmanuel Stratakis, Institute of Electronic Structure and Laser (IESL) at FORTH, Crete, Greece
Ultrashort pulsed laser engineering of materials and related diagnostics

Natalie Tarasenko, National Academy of Sciences of Belarus, B. I. Stepanov Institute of Physics, Belarus
Electric field assisted laser ablation in liquids: Main features and application for controlled synthesis of nanocomposites

Hiroshi Yoshikawa, Graduate School of Engineering, Osaka University, Japan
Fabrication of single crystals by laser ablation in supersaturated solutions

Anna Ziefuß, University of Duisburg-Essen, Germany
Mechanism of nanoparticle and microparticle laser fragmentation in liquids



Best oral and
poster student
presentation
awards

Fojtik
Henglein
Prize

Shafeev
Award

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For more information and updates
please check conference website at
<http://angel-conference.org/>

News/Deadlines:

Abstract Submission: November 15, 2023

Abstract acceptance notification: January 15, 2024

Special Rate Hotel Reservation: April 25, 2024

Early Registration: February 15, 2024

Local Organizing Committee:

James Fitz-Gerald, Materials Science and Engineering, UVA

David Green, Chemical Engineering, UVA

Mool Gupta, Electrical Engineering, UVA

Patrick Hopkins, Mechanical and Aerospace Engineering, UVA

Mo Jiang, Chemical and Life Science Engineering, VCU

Leah Spangler, Chemical and Life Science Engineering, VCU

Weining Wang, Mechanical and Nuclear Engineering, VCU

Sen Zhang, Chemistry, UVA

Organizers

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Leonid Zhigilei, University of Virginia

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Stephan Barcikowski, University of Duisburg-Essen, Germany

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