

NanoPlasm 2018

10-15 June, 2018 - Grand Hotel San Michele (Italy)

Detailed Program

MONDAY, June 11th 2018

08:30			OPENING CEREMONY
			Chair: G. Strangi
9:00-9:35	A. Boltasseva	Plenary Talk: "Emerging Materials for Nanophotonics and Plasmonics"	
9:35-10:10	N. Zheludev	Visionary Talk: "Back to the Future of Metamaterials"	
10:10-10:40	Coffee Break		
			Chair: A. Badolato
10:40-11:05	O. Hess	Invited: "Spatio-temporal near-field dynamics of strong coupling and ultraslow light nanolasing in nanoplasmonic cavities"	
11:05-11:25	S. Palomba	"Comparative plasmonic waveguide design for nanoscale lasing and four-wave mixing"	
11:25-11:50	G. Cerullo	Invited: "Ultrafast optical response of plasmonic nanostructures"	
11:50-12:10	C. Forestiere	"Radiative Plasmon Decay Rates of Nanoparticles"	
12:10-12:35	T. Shahbazyan	Invited: "Cooperative spontaneous emission from an ensemble of quantum emitters near plasmonic nanostructure underpinned by cooperative energy transfer"	
13:00-14:30	Lunch		
			Chair: A. De Luca
16:00-16:35	A. Govorov	Plenary Talk: "Optical Phenomena in Hybrid Nanostructures and Bioassemblies: Coherent Transfer of Plasmons, Hot Electrons and Chirality"	
16:35-17:00	F. De Angelis	Invited: "3D plasmonic nanostructures for biology and medicine"	
17:00-17:20	A. Li Bassi	"Integration of plasmonic Au nanoparticles in TiO ₂ hierarchical structures via single step pulsed laser co-deposition"	
17:20-17:50	Coffee Break		
			Chair: G. Cerullo
17:50-18:15	R. Grange	Invited: "How to Enhance Nonlinear Optical Signals of Metal-Oxide Nanomaterials?"	
18:15-18:35	D. Catone	"Sensitizing Wide Band Gap Oxides to Visible Light using Plasmonic Metal Nanoparticles"	
18:35-19:00	B. Palpant	Invited: "Hot electrons affect the absorption of ultrashort laser pulses by plasmonic nanostructures"	
19:00-19:25	R. Won	Invited: "Publishing in Nature journals"	
20:15-21:30	Dinner		

TUESDAY, June 12th 2018

Special Session: Metamaterials @50

Chair: A. Boltasseva

9:00-9:30	D. Smith	Plenary Talk: "Circuit Metamaterials and Negative Index Media"
9:30-10:00	F. Capasso	Plenary Talk: "Advances in Structured Light and Flat Optics with Metasurfaces"
10:00-10:30	V. Shalaev	Plenary Talk: "Plasmonic Metamaterials Reimagined: New Applications for Metasurfaces and 4D Photonics"
10:30-11:00	Coffee break	
Chair: O. Hess		
11:00-11:25	A. Zayats	Invited: "Metamaterials for Ultrafast Polarisation Engineering"
11:25-11:45	M.El Kabbash	"Plasmon-Assisted Cooperative Energy Transfer Controls Spontaneous Emission Rate Beyond Field Enhancement Limits"
11:45-12:10	P. Barois	Invited: "Optical magnetism and spatial dispersion effects in visible light: the bottom-up approach"
12:10-12:35	V. Ponsinet	Invited: "Self-assembled metamaterials and metasurfaces at optical frequencies"
13:00-14:30	Lunch	
Chair: R. Bartolino		
16:00-16:35	E. Hu	Plenary Talk: "The Photonic Power of Crystalline Defects: Cavity Amplification of "Vacancy" Emission in SiC"
16:35-17:00	S. Vignolini	Invited: "Bio-inspired Photonics: from nature to applications"
17:00-19:00	Elevator Pitch "Talks" Posters Coffee break	
19:00	"Daniela Pucci" Prize	
19:30	"Flute Concert"	
20:15-22:30	Gala Dinner	

WEDNESDAY, June 13th 2018

Chair: E. Hu

9:00-9:35	S. Maier	Plenary Talk: "Charge transfer in nanoplasmonics as an avenue for control of chemical SERS enhancement and molecular selfassembly"
9:35-10:00	R. Quidant	Invited: "Putting Nanoplasmonics to work!"
10:00-10:20	L. Petti	"Label-free Sensitive detection of dsDNA based on Octupolar nanostructures"
10:20-10:50	Coffee break	

Chair: J. Aizpurua

10:50-11:15	D. Sanvitto	Invited: "Polariton condensates in an array of plasmonic nanostructures"
11:15-11:35	C. Ciraci	"Current-dependent nonlocal absorption in plasmonic systems"
11:35-12:00	A. Badolato	Invited: "Genetically optimized nanophotonic structures for classical and quantum devices"
12:00-12:25	V. Giannini	Invited: "THz Quantum Plasmonics with Topological Insulator Nanoparticles"
13:00-14:30	Lunch	

16.00 - Night

Social Event with Dinner:

"Calabria Coast to Coast"



Visit to: - Ruins of Sybaris (720 BC)
- Museum of Sybaris
- Altomonte "A Medieval Town"

The Dinner will be held in the famous **"Ristorante Barbieri"** in Altomonte

THURSDAY, June 14th 2018

Chair: O. Maragò

9:00-9:35	H. Atwater	Plenary Talk: "Light as Fuel"
9:35-10:00	F. Capolino	Invited: "Exceptional Points of Degeneracy in Coupled Mode Systems: Theory and Applications"
10:00-10:20	D. Fernandes	"Electromagnetic field hotspots in P·T·D invariant systems"
10:20-10:50	Coffee break	

Chair: F. De Angelis

10:50-11:15	J. Aizpurua	Invited: "Addressing Plasmon-Enhanced Molecular Spectroscopy at the Atomic Scale"
11:15-11:35	P. Biagioni	"Enhancing circular dichroism at the nanoscale"
11:35-12:00	O. Maragò	Invited: "Optical forces for materials and metamaterials"
12:00-12:25	G. Assanto	Invited: "Soliton-enhanced random lasing in weakly scattering liquid crystals: active photonics and nematicons in synergy"
13:00-14:30	Lunch	

Chair: F. Capolino

16:00-16:35	N. Engheta	Plenary Talk: "Photonic Doping and Single-Inclusion Metamaterials"
16:35-17:00	P. Belov	Invited: "Applications of Silicon-Based Nanophotonics"
17:00-17:20	M. Ortolani	"All-semiconductor components for plasmon-enhanced silicon photonics"
17:20-17:50	Coffee break	

Chair: P. Barois

17:50-18:15	M. Correa Duarte	Invited: "Hot-spots in Plasmonic Photocatalysis"
18:15-18:35	M.G. Donato	"Optical force positioning and aggregation of nanoparticles"
18:35-19:00	J. Leng	Invited: "Microfluidics for the Fabrication of Optical and Acoustic Metamaterials"
19:00-19:25	R. Barberi	Invited: "The research infrastructure STAR, the center of a technological pole"
20:15-21:30	Dinner	