

Program at a Glance

Wednesday June 19			
	9:30-10:30	Registration	
	10:30-10:45	Opening	
De Angelis	10:45-11:30	Quidant	Putting Nanoplasmonics to work!
	Biosensors		
	11:30-11:45	Romano	Exponential sensitivity of a bound-state-in-continuum photonic crystal sensor
	11:45-12:00	Santoro	Exploring dimensionality for biosensing
	12:00-12:15	Alessandri	Plasmonic Hydrogels for Pan-Specific Capture and Ultrasensitive Raman Detection of Persistent Organic Pollutants
	12:15-12:30	Di Meo	Plasmonic Metasurface based on Cross-Shaped Nanoantennas for Biosensing Applications
	12:30-14:30	Lunch	
Alessandri	Plasmonics for Chemistry and Bio-Chemistry		
	14:30-14:45	Baldi	Plasmonics for Chemistry: sensing and driving chemical reactions using plasmons
	14:45-15:00	Garma	Electrophysiology for the masses: a cost-effective ecosystem for the study of electrogenic cells
	15:00-15:15	Guido	Control of Coherences and Optical Responses of Pigmenta Protein Complexes by Plasmonic Nanoantennae
	15:15-15:30	Hernandez	Remotely Generated Hot-Electron using Surface Plasmon Polaritons
	15:30-15:45	Della Ventura	Plasmonic Enhanced Fluorescence as an Effective Biosensing Platform: Detection of Immunoglobulins in Urine for POC Applications
	15:45-16:00	Sepe	Study of the Fluorescence Emission at the Surface of 1D-Photonic Crystal Biochips
	16:00-16:30	Coffee Break	
Baldi	16:30-16:45	Jensen (NKT Photonics)	Towards the ultimate light source
	SERS/SEIRA		
	16:45-17:00	Zito	Surface-Enhanced Raman and Fluorescence Spectroscopy with an All-Dielectric Metasurface
	17:00-17:15	Caprara	SERS spectroscopy as a high-performance technique to monitor the DNA melting profile
	17:15-17:30	Novara	In situ growth of silver nanoparticles on PDMS membranes for multi-wavelength SERS biosensing platforms
	17:30-17:45	Giordano	Plasmon engineering in self-organized metasurfaces for broadband Surface Enhanced Infrared Absorption (SEIRA) spectroscopy
Celebrano	Aperiposter Session		
	17:45-17:55	Ferraro	Best Doctoral Thesis Award: From basic to advanced: design, fabrication and characterization of functional Terahertz devices
	17:55-19:00	Poster Session	

Thursday June 20			
Baldassarre	09:00-09:45	Reich	Plasmonic nanoparticle crystals: Exploring the limits in light-matter coupling
	Alternative Plasmonic Materials and Dielectrics Resonators		
	09:45-10:00	Li Bassi	Nanoengineered TiO ₂ and Ta:TiO ₂ films with enhanced optical/electrical properties for advanced photoconversion and plasmonics
	10:00-10:15	Ciano	Surface Plasmon Waveguides in the THz range for photoluminescent and nonlinear emitters based on Ge/SiGe Quantum Wells
	10:15-10:30	Setaro	Plasmon-Assisted Phenomena in Gold-Carbon Nanotubes Hybrids
	10:30-11:00	Coffee break	
Bollani - Sapienza	11:00-11:15	Vitucci (Crisel Instruments)	THz technology for imaging: from Time Domain Spectroscopy (TDS) to THz Quantum Cascade Laser (THz QCL) Imaging
	Cavities and Resonators		
	11:15-11:30	Sapienza	Dielectric nanocavities for enhanced Purcell effect and strong directionality
	11:30-11:45	Mancini	Near-field spectroscopy of Phonon Polariton resonators
	11:45-12:00	Caligiuri	A Semi-Classical view on the Occurrence and Hybridization of Resonant Tunnelling Epsilon-Near-Zero Modes in Metal/Insulator Nanocavities
	12:00-12:15	Zambrana-Puyalto	Enhanced single molecule detection using Plasmonic Nanochannels and Zero-Mode Waveguides
	12:15-12:30	Piccotti	Two-dimensional nanostructure arrays for plasmonic nanolaser devices
	12:30-14:30	Lunch	
Mattel	Multiphysics systems		
	14:30-14:45	Gabbani	Coupling Plasmonics with Magnetism in Magnetoplasmonic Hybrid Nanoalloys
	14:45-15:00	Patti	Chiral optical forces and optical trapping of optically active particles
	15:00-15:15	Polito	Difference nanospectroscopy of Proteins in Cell Membranes Located in a 10-nanometer wide Plasmonic Nanogap
	15:15-15:30	Ferrera	Plasmonics of Au Nanoparticles in a Variable-Temperature Thermodynamic Bath
	15:30-15:45	Gillibert	Polarization-dependent thermoplasmonic response of anisotropic metal nanoparticles
	15:45-16:00	Behel	Second Harmonic Scattering from Hybrid Gold & Dielectric Nanoparticles
		16:00-16:30	Coffee Break
Intonti	Probing and Imaging		
	16:30-16:45	Isoniemi	Probing resonant modes in hyperbolic metamaterial nanostructures with electron energy loss spectroscopy
	16:45-17:00	Triolo	Near-field imaging of surface-plasmon vortex-modes around a single elliptical nanohole in a gold film.
	17:00-17:15	Zilli	Quantitative measurement of the optical cross-sections of single nano-objects
	17:15-17:30	Leonetti	Scattering Assisted Imaging
	17:30-18:30	Round Table	
	18:30-18:45	Election Steering Committee Plasmonica	
	20:30	SOCIAL DINNER, Antonio & Antonio Restaurant	

Friday June 21			
Ciraci	09:00-09:45	A. Alù	Plasmonic metamaterials
	Modes & Topology		
	09:45-10:00	Pascale	Full-wave mode hybridization in Nanoparticle Dimers
	10:00-10:15	Picardi	Dipolar sources for directional and selective excitation of guided modes
	10:15-10:30	Garcia-Etxarri	Topological photonics: Mistaken paradigms and new opportunities
10:30-11:00 Coffee Break			
Finazzi	11:00-11:15	Calvano (Ansys)	Metamaterial Simulation with ANSYS
	Non Linear Effects		
	11:15-11:30	Savo	Nonlinear Light Generation in Disordered Micro-Balls
	11:30-11:45	Rocco	Efficient Second Harmonic Generation in Dielectric Nanoantennas with Epsilon-Near-Zero Substrate
	11:45-12:00	De Luca	Parameter-free hydrodynamic treatment of Difference-frequency Generation in plasmonic nanostructure
12:00-14:00 Lunch			
De Luca	Quantum Effects		
	14:00-14:15	Tricarico	Field Quantization in Arbitrarily-Shaped Metal Nanoparticles
	14:15-14:30	Giannone	Molecular Switches interacting with Localized Surface Plasmons: a Density Functional Theory Approach
	14:30-14:45	Della Sala	Ab initio Plasmonics of Externally Doped Silicon Nanocrystals
	14:45-15:00	D'Agostino	The Role of Quantum Mechanical Effects in Metal-Molecule Interactions
Esposito	Metasurfaces & Gratings		
	15:00-15:15	Chowdhury	Large-area nanostripe gratings for flexible NIR plasmonics and optoelectronics
	15:15-15:30	Marabelli	Anomalous effective permittivity of Vogel spiral metamaterials
	15:30-15:45	Occhicone	Mid-infrared Bloch Surface Waves for Sensing Biomolecules by their Fingerprints
	15:45-16:00	Papari	Sensing using Surface Plasmon Polaritons in THz metagrids
16:00-16:15 Conference Awards			
16:15-16:30 Closing Remarks			

■ Keynote
 ■ Regular Session
 ■ Coffee-break/lunch/aperitif
 ■ Opening/Closing
 ■ Awards

Wi-Fi Credentials

SSID: PLASMONICA Password: cixagisu

Conference Awards

At the end of the conference SIOF and IEEE Photonic Society Italy Chapter will offer four prizes (of 200 EUR each) to the **two best oral presentations** and to the **two best poster presentations**

The journal Sensors MDPI will offer a prize of 500 CHF to the best presentation on Plasmonic Sensors. All the winners will be announced at the closing ceremony of the conference.

Special Issue

Authors of oral and poster contributions presented at Plasmonica2019 are invited to submit a technically extended version of their work to the Special Issue of Sensors MDPI:

"Selected Papers from Plasmonica 2019 - 7th Edition of the Workshop on Plasmonics and its Application".

The conference participants will receive a 10% discount on the publishing fees.



PLASMONICA²⁰¹⁹

June 19-21 2019 | Naples, Italy
 San Marcellino & Festo Monastery
www.plasmonica.it/2019

