



**Italian Photochemistry Meeting 2023**  
**Sestri Levante, 14<sup>th</sup> – 16<sup>th</sup> December 2023**  
**Hotel Grande Albergo, Via Vittorio Veneto 2**  
**16039 Sestri Levante (Italy)**



## Scientific Program

### Thursday, 14<sup>th</sup> December 2023

13:00 – 14:00	<i>Registration</i>	
14:00 – 14:15	<i>Opening</i>	GIF President: Loredana Latterini Chair: Andrea Basso, Maurizio Fagnoni
	<i>Session 1</i>	Chair: Mirco Natali (Università di Ferrara)
14:15 – 15:00	PL1: <b>Ilse Manet</b> ISOFC CNR Bologna	Highlights of a journey with Cyclodextrins and Light
	<i>Oral communications (10+2 min)</i>	
15:00 – 15:12	OC1: <b>Antonio Fiorentino</b> Università di Bologna	Encapsulation properties of a calixarene-based dimeric nanocapsule
15:12 – 15:24	OC2: <b>Federico Droghetti</b> Università di Ferrara	Towards Selective Photochemical CO <sub>2</sub> Reduction with Heptacoordinated Iron(II) Polypyridine Complexes
15:24 – 15:36	OC3: <b>Salvatore Genovese</b> Università di Messina	Decoration of luminescent iron complexes with organic moieties, a strategy to increase the luminescence lifetime
	<i>Flash Communications (5+1 min)</i>	
15:36 – 15:42	FC1: <b>Tassia Joi Martins</b> Università di Catania	Exploring novel antibacterial systems with a nitric oxide photodonor encapsulated in cyclodextrin polymers
15:42 – 15:48	FC2: <b>Dario Mordini</b> Università di Bologna	Investigation of novel BSA-carbonate-silica biomorphs through scanning confocal fluorescence microscopy
15:48 – 15:54	FC3: <b>Riccardo Zema</b> Università di Perugia	Assessing photothermal effect of metal nanoparticles through spectroscopy
15:54 – 16:00	FC4: <b>Arianna Actis</b> Università di Torino	Investigation of photogenerated magnetic species in carbon nitride
16:00 – 16:30	<i>Coffee Break</i>	
	<i>Session 2</i>	Chair: Serena Silvi (Università di Bologna)
16:30 – 17:00	K1: <b>Stefano Corrà</b> Università di Bologna <i>GIF Young Investigator Award</i>	Light-fueled Supramolecular Pumps
	<i>Oral communications (10+2 min)</i>	
17:00 – 17:12	OC4: <b>Laura Tomassoli</b> Università di Perugia	Study of the adsorption of chromophores on graphene/graphene oxide sheets by fluorescence investigation
17:12 – 17:24	OC5: <b>Fabio Rizzo</b> CNR Milano	Tuning the Thermally Activated Delayed Fluorescence (TADF) with Polymorphism



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17:24 – 17:36	OC6: <b>Federica Ruani</b> ISOF-CNR Bologna	Photophysical properties of supramolecular complexes made of bis(acridinium-porphyrin) tweezers and a tetra-pyridyl porphyrin guest
17:36 – 17:48	OC7: <b>Jacob Jan van der Wal</b> Uppsala University (S)	Phosphoindirubins as new chiroptical photoswitches
17:48 – 18:00	OC8: <b>Fortuna Ponte</b> Università della Calabria	Theoretical investigation of the mechanism of action of a new Ru(II)-based pact agent for cancer treatment
	<i>Flash Communications (5+1 min)</i>	
18:00 – 18:06	FC5: <b>Simone Azzarelli</b> Università di Perugia	Tuning the luminescent properties of europium-based phosphors in solid phase and into polymeric hydrogels
18:06 – 18:12	FC6: <b>Andrea Capucciati</b> Università di Pavia	Photoinduced dehalogenation reactions: the role of melanins as heterogeneous photocatalysts
18:12 – 18:18	FC7: <b>Marco Rusconi</b> Università di Torino	Purple-Light Promoted Thiol-ene Reaction of Alkenes: a Catalyst-free Approach
18:18 – 18:24	FC8: <b>Zakaria Ziani</b> Università di Bologna	Synthesis and optical properties modulation of water-soluble copper indium sulfide quantum dots
18:24 – 18:30	FC9: <b>Alessandro Gradone</b> CNR Bologna	A high-sensitivity long-lifetime phosphorescent RIE additive to probe free volume-related phenomena in polymers
19:15	<i>Welcome drink</i>	

**Friday, 15<sup>th</sup> December 2023**

	<i>Session 3</i>	Chair: Paola Ceroni (Università di Bologna)
9:00 – 9:45	PL2: <b>Burkhard König</b> Universität Regensburg	Improving Organic Synthesis with Photochemistry
	<i>Oral Communications (10+2 min)</i>	
9:45 – 9:57	OC9: <b>Mariateresa Giustiniano</b> Università di Napoli	Isocyanide Photochemistry: Room for a Radical Shift
9:57 – 10:09	OC10: <b>Federica Minuto</b> Università di Genova	Continuous flow synthesis of $\beta$ -lactones through a doubly photochemically-activated Paternò Büchi reaction
10:09 – 10:21	OC11: <b>Alexandra Jorea</b> Università di Pavia	Photocatalyzed functionalization of electron-poor allenes via Hydrogen Atom Transfer (HAT)
10:21 – 10:33	OC12: <b>Caterina Bellatreccia</b> Università di Bologna	Copper indium sulfide quantum dots enabling quantitative visible light photoisomerisation of ( <i>E</i> )-azobenzene dyes



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	<i>Flash Communications (5+1 min)</i>	
10:33 – 10:39	FC10: <b>Yemataw Addis Alemu</b> Università di Bologna	Dye-doped silica nanoparticles for enhancing electrochemiluminescence signal intensities
10:39 – 10:45	FC11: <b>Francesco Marchini</b> Università di Perugia	Lead-free halide perovskites for colour-compatible radiative coolers
10:45 – 10:51	FC12: <b>Alberto Magliocco</b> Università di Ferrara	Photoelectrochemical CO <sub>2</sub> reduction via Cu <sub>2</sub> O-based hybrid photocathodes
10:51 – 10:57	FC13: <b>Chiara Taticchi</b> Università di Bologna	Toward photoinduced reversible switching of charge mobility in the solid state
11:00 – 11:30	<i>Coffee Break</i>	
	<i>Session 4</i>	Chair: Luisa De Cola (Università di Milano)
11:30 – 12:00	K2: <b>Marco Villa</b> Università di Bologna <i>GIF Young Investigator Award</i>	Persulfurated Benzenes as Aggregation Induced Phosphorescence Sensors
	<i>Oral Communications (10+2 min)</i>	
12:00 – 12:12	OC13: <b>Chiara Capolungo</b> Università di Bologna	Luminescent Biopolymer Probes for Micro- and Nanoplastics Detection
12:12 – 12:24	OC14: <b>Tommaso Bianconi</b> Università di Perugia	Charge Instability in Multimodular Push-Pull Systems: Excited-State Symmetry Breaking Under the Gaze of Ultrafast Time-Resolved Infrared Spectroscopy
12:24 – 12:36	OC15: <b>Elena Rossin</b> Università di Padova	Photoelectrochemical C-H activation with dyes enabling proton-coupled electron transfer
	<i>Flash Communications (5+1 min)</i>	
12:36 – 12:42	FC14: <b>Edoardo Marchini</b> Università di Ferrara	Perfluorinated Zinc Porphyrin Sensitized Photoelectrosynthetic Cells for Benzyl Alcohol Oxidation Mediated by TEMPO
12:42 – 12:48	FC15: <b>Chiara Montanari</b> Università di Perugia	Enabling red thermally activated delayed fluorescence by increasing the push-pull strength in naphthalimide-phenothiazine derivatives
12:48 – 12:54	FC16: <b>Ettore Bianco</b> Università di Torino	Enhancing HER rate over Pt-TiO <sub>2</sub> nanoparticles under Controlled Periodic Illumination - role of illumination's parameters
12:54 – 13:00	FC17: <b>Elena Cambiotti</b> Università di Perugia	Silica Encapsulation of Semiconductor Quantum Dots under Air Equilibrated Conditions
13:00 – 14:30	<i>Lunch</i>	



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	<i>Session 5</i>	Chair: Salvatore Sortino (Università di Catania)
14:30 – 15:15	PL3: <b>Massimo Trotta</b> CNR Bari	Sustainability and Circularity. The Mighty Power of Photosynthesis
	<i>Oral Communications (10+2 min)</i>	
15:15 – 15:27	OC16: <b>Alberto Bianco</b> Università di Bologna	An autonomous system for NADH photoregeneration
15:27 – 15:39	OC17: <b>Roberto D'Amato</b> Università di Perugia	Silica Based Photocatalysts for the Degradation of Pharmaceutical Compounds from Water
15:39 – 15:51	OC18: <b>Francesca Laneri</b> Università di Catania	The photobehaviour of curcumin in biocompatible hosts: the role of H-abstraction in the photodegradation and photosensitization
	<i>Flash Communications (5+1 min)</i>	
15:51 – 15:57	FC18: <b>Gloria Mazzone</b> Università della Calabria	Dihydroalkaloids for Photoactivatable Cancer Therapy
15:57 – 16:03	FC19: <b>Dalila Cafagno</b> Università di Bologna	Reversible Switching of Photoresponsive Liposomes
16:03 – 16:09	FC20: <b>Cristina Parisi</b> Università di Catania	Red-Light-Photosensitized NO Release and Its Monitoring in Cancer Cells with Biodegradable Polymeric Nanoparticles
16:09 – 16:15	FC21: <b>Maria Vittoria Balli</b> Università di Bologna	Electrochemiluminescence-based biosensors for viruses' detection
16:15 – 16:21	FC22: <b>Degnet Melese Dereje</b> Università di Torino	NIR dye-based electrospun fibers for antimicrobial photodynamic therapy
16:25 – 17:00	<i>Coffee Break</i>	
	<i>Session 6</i>	Chair: Maurizio D'Auria (Università della Basilicata)
	<i>Oral Communications (10+2 min)</i>	
17:00 – 17:12	OC19: <b>Alessandro Turci</b> Università di Bologna	Synthesis and Characterization of Azobenzene Dendrimers
17:12 – 17:24	OC20: <b>Donato Pasculli</b> Università di Torino	Colorless dye sensitized solar cells for building integration based on low cost NIR dyes
	<i>Flash Communications (5+1 min)</i>	
17:24 – 17:30	FC23: <b>Michele Mazzanti</b> Università di Ferrara	Charge transfer dynamics in WO <sub>3</sub> /BiVO <sub>4</sub> photoanodes modified with a molecular catalyst
17:30– 17:36	FC24: <b>Martina Alebardi</b> Università di Perugia	FRET-Sensitized Singlet Fission in para-Azaquinodimethane Films
17:36– 17:42	FC25: <b>Stefano Nejrotti</b> Università di Torino	Towards stable red-emitting artificial fluorescent proteins for sustainable bio-hybrid WLEDs



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17:45 – 18:20	Poster Session
18:20 – 18:50	Division Assembly

20:30	Social Dinner
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**Saturday, 16<sup>th</sup> December 2023**

	Session 7	Chair: Claudia Barolo (Università di Torino)
9:00 – 9:45	PL4: <b>Liberato Manna</b> Istituto Italiano di Tecnologia	Halide Perovskite and Perovskite-Related Nanocrystals: Synthesis, Optical Properties, Heterostructures
9:45 – 10:15	K3: <b>Letizia Mencaroni</b> Università di Perugia "Ugo Mazzucato" Award	Singlet fission mechanism in push-pull compounds under the gaze of fast and ultrafast spectroscopy
	Oral Communications (10+2 min)	
10:15 – 10:27	OC21: <b>Jacopo Scarfiello</b> Università di Torino	Catalyst-free pyrrolidines synthesis through visible-light aided intramolecular chloroamination-cyclization of N-substituted 4-pentenyamines
10:27 – 10:39	OC22: <b>Martina Milani</b> Università di Ferrara	Visible light responsive hydrothermal cadmium sulfide for a challenging photocatalytic reductive application
10:39 – 10:51	OC23: <b>Arianna Menichetti</b> Università di Bologna	Localized Crystallization of Calcium Phosphates by Light-Induced Processes
10:50 – 11:20	Coffee Break	
	Flash Communications (5+1 min)	
11:20 – 11:26	FC26: <b>Lorenzo Di Terlizzi</b> Università di Pavia	Visible-light photochemical divergent difunctionalization of styrenes with arylazo sulfones
11:26 – 11:32	FC27: <b>Sultan Çetin</b> Università di Bologna	Unlocking Carbazole-1,3-dicarbonitrile Through Light Activation Yields a Thermally Activated Delayed Fluorescent (TADF) Photocatalyst For Cobalt-Mediated Allylations
11:32 – 11:38	FC28: <b>Leonardo Andreoni</b> Università di Bologna	Selective formation of [2]pseudorotaxane orientational isomers with distinct photophysical properties
11:38 – 11:44	FC29: <b>Lorenzo Poletti</b> Università di Ferrara	Tandem Flow Heterogeneous Photo-Organocatalyzed Synthesis of High Optical Pure Non-Natural Amino Acids
11:44 – 11:50	FC30: <b>Francesco Vinti</b> Università di Perugia	Study of the Interactions Between Azobenzene and graphene/graphene oxide in thin films for a green production of Nitrogen doped graphene
11:50 – 11:56	FC31: <b>Francesca Mancini</b> Università di Bologna	Covalent P <sub>3</sub> HT-C60 NPs for photocatalytic hydrogen evolution



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12:00 – 12:45	<i>Award Ceremony</i>
12:45 – 13:00	<i>Closing</i>

## POSTER Session

<b>P01</b>	<b>Agnese Amati</b> Università di Ferrara	Photo-Electrochemical Oxidation of Cyclohexane with WO <sub>3</sub> Photoanode
<b>P02</b>	<b>Valentina Benazzi</b> Università di Pavia	Carbon dots as visible light biobased photocatalysts
<b>P03</b>	<b>Camilla Callegari</b> Università di Pavia	Applications of carbon nitride-perovskite composite materials as heterogeneous photocatalysts in organic synthesis
<b>P04</b>	<b>Elena Cassera</b> Università di Pavia	Generation of alkyl radicals via photocatalyzed hydrogen atom transfer (HAT)-initiated fragmentation
<b>P05</b>	<b>Benjamin Clepoint</b> Università di Catania	“Green” Synthetic Methodologies for the Fabrication of Gold Nanostructures with Photothermal Properties for Photothermal therapy
<b>P06</b>	<b>Maria D'Aloia</b> Università di Perugia	Self-Healing Hydrogels Printed by Photoinduced 3D Printing Techniques for Biomedical Applications
<b>P07</b>	<b>Luisa De Cola</b> Università di Milano	<b>TBA</b>
<b>P08</b>	<b>Alessio d'Ettorre</b> Università di Siena	QM/MM investigation of long-range electron transfer pathways in bacteriorhodopsin/TiO <sub>2</sub> hybrid systems
<b>P09</b>	<b>Andrea Fermi</b> Università di Bologna	Exploring solid-state luminescence modulation in persulfurated benzenes
<b>P10</b>	<b>Francesco Gambuti</b> Università di Genova	Efficient one-pot multistep synthesis of spiroindolenines: Graphene Oxide versus visible light
<b>P11</b>	<b>Hawraz M. Amin</b> Università di Pavia	Arylazo Sulfones as Photoactive Substrates in Visible-Light Driven Forging of Ar-C and Ar-D Bonds
<b>P12</b>	<b>Cristina Martini</b> Università di Genova	The use of new isocyanides in the GBB three-component reaction for the synthesis of novel organic fluorophores
<b>P13</b>	<b>Carlo Matera</b> Università di Milano	Optical Stimulation of the Auditory Nerve with Photoswitchable Molecular Prosthetics
<b>P14</b>	<b>Andrea Messina</b> Università di Genova	Insertion Of Isocyanides To Inactivated Iodides Through Visible Light Induced Pd Catalysis
<b>P15</b>	<b>Camilla Russo</b> Università di Napoli Federico II	Photocellular catalyzed synthesis of amides from isocyanides: from optimization to NMR studies of photocatalyst/surfactant interactions





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