

Italian Photochemistry Meeting 2022
Ferrara, 15th – 17th December 2022
Sala Estense, Piazza del Municipio 14
44121 Ferrara (Italy)

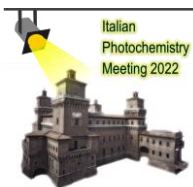


Scientific Program

Thursday, 15th December 2022

13:00 – 14:00	<i>Registration</i>	
14:00 – 14:15	<i>Opening</i>	GIF President: Loredana Latterini Chair: Mirco Natali

	<i>Session 1</i>	Chair: Sebastiano Campagna (Università di Messina)
14:15 – 15:00	PL1: Antoni Llobet ICIQ Tarragona (Spain)	Hybrid Molecular Anodes for Sustainable Energy Applications
	<i>Oral communications (10+2 min)</i>	
15:00 – 15:12	O1: Giacomo Morselli Università di Bologna	CuInS ₂ Quantum Dots as Photoanodic Material in Photo-electrochemical Cells
15:12 – 15:24	O2: Agnese Amati Università di Ferrara	Photocatalytic Water Oxidation at the Lipid Bilayer – Water Interface: A Mechanistic Study
15:24 – 15:36	O3: Francesco Rigodanza Università di Padova	Cross-linking Perylenebisimide “Quantasomes” with PEG Chains to Template Hydration Shells and Enhance Oxygenic Photosynthesis
	<i>Flash Communications (5+1 min)</i>	
15:36 – 15:42	F1: Federico Droghetti Università di Ferrara	Selective Light-Driven CO ₂ Reduction with a Hexadentate Polypyridine Iron(II) Catalyst
15:42 – 15:48	F2: Alberto Bianco Università di Bologna	A Commercially Available Heterogeneous Catalyst for Hydrogen Photo-Production in Different Media
15:48 – 15:54	F3: Annalisa Polo Università di Milano	Molybdenum doped BiVO ₄ as visible light sensitizer for TiO ₂ photoanodes in solar water splitting
15:54 – 16:00	F6: Martina Milani Università di Ferrara	Composite CdS/TiO ₂ Powders as Visible Light Responsive Photocatalysts: Relation between Textural Properties and Photocatalytic Activity
16:00 – 16:30	<i>Coffee Break</i>	
	<i>Session 2</i>	Chair: Ilse Manet (ISOF-CNR)
16:30 – 17:00	K1: Matteo Bonomo Università di Torino <i>GIF Young Investigator Award</i>	Innovative and Sustainable Materials for Emerging Photovoltaics: From Panchromatic to Colourless
	<i>Oral communications (10+2 min)</i>	
17:00 – 17:12	O4: Maria Vittoria Dozzi Università di Milano	Implementation of copper tungstate-based photoanodes for solar energy conversion
17:12 – 17:24	O5: Michele Orlandi Università di Trento	Physical Vapour Deposition Methods for Sustainable Inorganic Photoactive Nanomaterials



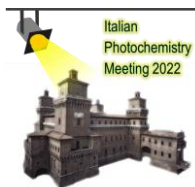
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17:24 – 17:36	O6: Roberto D'Amato Università di Perugia	New Photocatalyst for the Degradation of FANS
17:36 – 17:48	O7: Erica Paltrinieri Università di Bologna	Nanoengineered photoresponsive vesicles
17:48 – 18:00	O8: Brian Sachini Università di Bologna	Improving Light-Driven Molecular Pumps: Dissecting Thermodynamic and Kinetic Entanglement in a Photoswitchable Molecular Axle
<i>Flash Communications (5+1 min)</i>		
18:00 – 18:06	F5: Ruggero Bonetto Università di Padova	Polyquinoid Dye-Cobalt Oxide Hybrids: Novel Rare Metal-Free Dyads For Photoelectrochemical Water Oxidation
18:06 – 18:12	F6: Rossella Labarile IPCF-CNR	Energy from Photosynthetic Bacteria
18:12 – 18:18	F7: Amalia Malina Grigoras Università di Perugia	Development and Synthesis of Bi Based Nanomaterials Supported on Graphene for Photocatalysis
18:18 – 18:24	F8: Vito Cristino Università di Ferrara	Photoelectrochemical Properties of WO ₃ /BiVO ₄ /Ag ₂ O Photoanodes

Friday, 16th December 2022

	<i>Session 3</i>	Chair: Claudia Barolo (Università di Torino)
9:00 – 9:45	PL2: Luisa De Cola Università di Milano	Self-Assembly of Luminescent Metal Complexes in Solution and in Vivo
<i>Oral Communications (10+2 min)</i>		
9:45 – 9:57	O9: Liviana Mummolo Università di Bologna	Development of a Novel Electrochemiluminescent-Based Sensor for the Detection of Sars-CoV-2 Virus
9:57 – 10:09	O10: Tamas Hergert Tales Nano Inc. (<i>sponsor</i>)	A Multiwavelength Photoreactor for Batch and Flow Chemistry – Development and Applications
10:09 – 10:21	O11: Antonio Fiorentino Università di Bologna	Incorporation and Release of Donor-Acceptor Stenhouse Adducts in Liposomes
10:21 – 10:33	O12: Arianna Menichetti Università di Bologna	A Green Photothermal Material for Light-Controlled Paint Restoration
<i>Flash Communications (5+1 min)</i>		
10:33 – 10:39	F9: Francesca Laneri Università di Catania	A Cyclodextrins Based Fluorescent Supramolecular Nanoassembly for Combined Photo-Chemotherapy
10:39 – 10:45	F10: Eugenio Giovannetti Università di Bologna	Fluorescent Chitosan-Based Probes for the Detection of Microplastics
10:45 – 10:51	F11: Giuliana Lazzaro Università di Messina	Photoactive Liposomal Structures Based on BODIPY and Curcumin Subunits



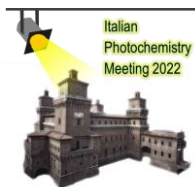
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10:51 – 10:57	F12: Massimiliano Curcio Università di Bologna	Autonomous Non-Equilibrium Operation of a Mechanically Interlocked Molecular Shuttle
11:00 – 11:30	<i>Coffee Break</i>	
	<i>Session 4</i>	Chair: Francesco Nastasi (Università di Messina)
11:30 – 12:00	K2: Stefano Crespi Uppsala University <i>GIF Young Investigator Award</i>	Mechanistic Investigation of the Molecular Movement of Photochemical Actuators
	<i>Oral Communications (10+2 min)</i>	
12:00 – 12:12	O13: Giuseppe Nocito Università di Messina	New Luminescent Organic Nanomaterial for Sensing Applications
12:12 – 12:24	O14: Thomas Lecuyer Università di Catania	Photochromism of Donor-Acceptor Stenhouse Adducts (DASA) in Liposomes
12:24 – 12:36	O15: Marco Villa Università di Bologna	Investigation of Thermally Activated Delayed Fluorescence (TADF) Compounds in Photoredox Catalysis
	<i>Flash Communications (5+1 min)</i>	
12:36 – 12:42	F13: Lorenzo Poletti Università di Ferrara	Photocatalyzed Generation of Glycosyl Radicals for Selective Addition to Electron Poor Double Bonds: An Access to C-glycosyl Amino Acids for Glycopeptides Synthesis
12:42 – 12:48	F14: Alexandra Mavridi-Printezi Università di Bologna	Properties and Bio-Applications of Melanin and its Synthetic Analogues
12:48 – 12:54	F15: Federico Nicoli Università di Bologna	A Photoactivated Pseudorotaxane-Based Linear Molecular Motor
12:54 – 13:00	F16: Chiara Taticchi Università di Bologna	Towards an Autonomous Photochemically Driven Rotary Motor Based on a Catenane

13:00 – 14:30	<i>Lunch</i>	
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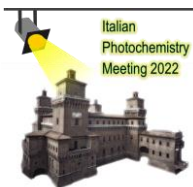
	<i>Session 5</i>	Chair: Giacomo Bergamini (Università di Bologna)
14:30 – 15:15	PL3: Giulio Cerullo Politecnico di Milano	Real-Time Observation of Conical Intersection in Biomolecules
	<i>Oral Communications (10+2 min)</i>	
15:15 – 15:27	O16: Mariano Venanzi Università di Roma Tor Vergata	Looking for Exciton Interaction through Peptide Chains
15:27 – 15:39	O17: Ivan Grigioni Università di Milano	Charge Carrier Dynamics in WO ₃ /BiVO ₄ Heterojunction Photoanodes
15:39 – 15:51	O18: Letizia Mencaroni Università di Perugia	Spotlight on the Photobehaviour of Push-Pull Compounds: Hints of Singlet Fission



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15:51 – 16:03	O19: Matteo Cingolani Università di Bologna	Fluorogenic Hyaluronan Probe for Early Protein Aggregates Detection
	<i>Flash Communications (5+1 min)</i>	
16:03 – 16:09	F17: Federica Ruani ISOF-CNR	Photophysical Properties of Multi-Responsive Bis(acridinium/acridone-porphyrin) Molecular Switches
16:09 – 16:15	F18: Michele Mazzanti Università di Ferrara	Charge Transfer Dynamics in Nanostructured WO ₃ and WO ₃ /BiVO ₄ Photoanodes
16:15 – 16:21	F19: Chiara Nomellini Università di Milano	Planar and nanostructured WO ₃ /BiVO ₄ heterojunction photoanodes: effects of the morphology on the photoelectrochemical performance
16:21 – 16:27	F20: Pietro Battocchio Università di Trento	Laser Induced Impulse Generation on Polymers for Space Propulsion Applications
16:30 – 17:00	<i>Coffee Break</i>	
	<i>Session 6</i>	Chair: Maurizio D'Auria (Università della Basilicata)
17:00 – 17:30	K3: Giulia Quaglia Università di Perugia <i>"Ugo Mazzucato" Award</i>	Photon Upconversion Based on Triplet-Triplet Annihilation Processes in Smart Media to Enhance the Recovery of Incoherent Radiation
	<i>Oral Communications (10+2 min)</i>	
17:30 – 17:42	O20: Andrea Fermi Università di Bologna	Insights into the Luminescence Properties of Persulfurated Benzenes
17:42 – 17:54	O21: Carlotta Pontremoli Università di Torino	New Photosensitizers Based on MSNs and PLGA Nanoparticles Incorporating Cyanines and Squaraines for Antimicrobial PDT
	<i>Flash Communications (5+1 min)</i>	
17:54 – 18:00	F21: Elena Cambiotti Università di Perugia	Photon Upconversion Sensitized by Semiconductor Nanocrystals
18:00 – 18:06	F22: Silvia Grandi Università di Ferrara	Molecular Sensitizers for Photo-3D Printing of Ceramic Components
18:06 – 18:12	F23: Roberto Bondi Università di Perugia	Investigation of Energy Transfer: Fluorescent Material as a Bridge to Persistent Luminescence
18:12 – 18:18	F24: Donato Pasculli CNR-SCITEC Milano	Neutral and Cationic Luminescent Iridium Complexes: Synthesis and their Application in Electrochemiluminescence
18:20 – 18:40	Division Assembly	
20:30	<i>Social Dinner</i>	



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Saturday, 17th December 2022

	Session 7	Chair: Maurizio Fagnoni (Università di Pavia)
9:00 – 9:45	PL4: Frank Würthner Universität Würzburg	Supramolecular Photosystems Derived from Ferrari Red
9:45 – 10:15	K4: Edoardo Marchini Università di Ferrara "Ugo Mazzucato" Award	Iron Sensitized Solar Cells (FeSSCs)
	<i>Oral Communications (10+2 min)</i>	
10:15 – 10:27	O22: Andrea Capucciati Università di Pavia	Merging Decatungstate Photocatalysis with Electrochemistry for Alcohols Oxidation
10:27 – 10:39	O23: Elena Bassan Università di Bologna	Mechanistic Insights into Photoredox Nickel-Mediated Enantioselective Allylation of Aldehydes
10:39 – 10:51	O24: Federica Minuto Università di Genova	Design of Experiments in Organic Synthesis: Optimization of a Doubly Photochemically Activated Bicomponent Reaction
10:51 – 11:03	O25: Marco Agnes ISOF-CNR	Translation of Photooxygenation Reaction of Aromatic Molecules from Organic to Aqueous Environment: Challenges towards a Preparative Protocol
11:00 – 11:30	<i>Coffee Break</i>	
11:30 – 12:00	<i>Poster Session</i>	
12:00 – 12:45	<i>Award Ceremony</i>	
12:45 – 13:00	<i>Closing</i>	

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