

## Scientific Program

**Monday 9 September 2019**

University of Bari "Aldo Moro" Piazza C. Battisti 1

12:00 – 14:30	<i>Registration</i>	
14:30 – 14:45	<i>Opening (Aula Magna "Aldo Moro")</i>	
	<b>Aula Magna "Aldo Moro"</b> <b>Chair: Emma Gallo</b>	
14:45 – 15:30	<b>PL1 Plenary Lecture: <u>Thomas R. Ward</u></b> University of Basel, Basel (Switzerland) <i>Artificial Metalloenzymes: Challenges and Opportunities</i>	
15:30 – 16:00	<b>KN1 Keynote Lecture: <u>Sander Leeuwenburgh</u></b> Radboud University, Nijmegen (The Netherlands) <i>Regeneration of diseased bone by local delivery of therapeutic biomolecules from organic-inorganic composite biomaterials</i>	
16:00 – 16:30	<i>Coffee break</i>	
	<b>Aula Magna "Aldo Moro"</b> <b>Chair: Tiziana Marino</b>	<b>Aula "Gaetano Contento"</b> <b>Chair: Mario Chiesa</b>
16:30 – 16:45	<b>O1 Michele Benedetti</b> Università del Salento, Lecce (Italy) <i>Is hydrogen electronegativity higher than Pauling's value? New clues from the <sup>13</sup>C and <sup>29</sup>Si NMR chemical shifts of [AHF<sub>3</sub>] (A = C, Si) compounds</i>	<b>O2 Andrea Biffis</b> Università di Padova, Padova (Italy) <i>Direct Alkyne Hydroarylation Catalyzed by Late Transition Metals: Mechanistic Insights and Improved Performance in Ionic Liquids</i>
16:45 – 17:00	<b>O3 Fabio Carniato</b> Università del Piemonte Orientale, Alessandria (Italy) <i>Mn(II) picolinate complexes as potential MRI probes</i>	<b>O4 Giorgio Volpi</b> Università di Torino, Torino (Italy) <i>New blue fluorescent Zinc(II) complexes with high quantum yield based on tuneable 1,3-substituted-imidazo[1,5-a]pyridine ligands</i>
17:00 – 17:15	<b>O5 Maria I. Nardella</b> Università degli Studi di Bari, Bari (Italy) <i>Interplay between zinc and copper binding to metallochaperone Atox1 and the N-terminal domain of Menkes ATPase</i>	<b>O6 Roberto Gobetto</b> Università di Torino, Torino (Italy) <i>M(bpy-R)(CO)<sub>3</sub>X (M=Mn, X=Br or M=Re, X=Cl) catalysts for homogeneous and heterogeneous CO<sub>2</sub> electroreduction</i>
17:15 – 17:30	<b>O7 Tiziano Marzo</b> Università di Pisa, Pisa (Italy) <i>Human Serum Albumin and Cisplatin, a Still Ongoing Debate</i>	<b>O8 Daniela Intriери</b> Università degli Studi di Milano, Milano (Italy) <i>Porphyrin-based systems: homogeneous catalysts for the CO<sub>2</sub> cycloaddition to epoxides and aziridines</i>

47° Congresso Nazionale di Chimica Inorganica

17:30 – 17:45	<b>O9 Michele Iafisco</b> CNR, Faenza (Italy) <i>Inhalable Calcium Phosphate Nanoparticles for Cardiac Drug Delivery</i>	<b>O10 Angela Dibenedetto</b> Università di Bari, Bari (Italy) <i>Selective catalysts driven polyols oxidation in sustainable conditions</i>
17:45 – 18:00	<b>O11 Mario Prejano</b> Università della Calabria, Rende (Italy) <i>From natural enzymes to synthesized catalyst: the nitrile hydration. Insights from theory.</i>	<b>O12 Walter Baratta</b> Università di Udine, Udine (Italy) <i>Catalytic C-H Activation Reactions Catalyzed by Monocarbonyl Ruthenium Complexes</i>
18:00 – 18:15	<b>O13 Benny D. Belviso</b> CNR, Bari (Italy) <i>How platinum anticancer drugs affect Atox1 and copper ion interaction: a crystallographic investigation</i>	<b>O14 Giovanni Pamparano</b> Università di Genova, Genova (Italy) <i>Ethanol conversion over copper based catalytic systems.</i>
18:30 – 20:00	<i>Welcome Party (PALACE CAFÈ Bari)</i>	

## Tuesday 10 September 2019

University of Bari “Aldo Moro” Piazza C. Battisti 1

Aula Magna “Aldo Moro” Chair: Francesco P Fanizzi	
9:00 – 9:45	<b>PL2 Luigi Sacconi Medal 2019: <u>Liberato Manna</u></b> Istituto Italiano di Tecnologia (IIT) Genova (Italy) <i>Halide Perovskite Nanocrystals: Their Synthesis, Chemical, Structural, and Surface Transformations</i>
9:45 – 10:15	<b>KN2 Keynote Lecture: <u>Fabio Biscarini</u></b> Università degli Studi di Modena e Reggio Emilia, Modena (Italy) <i>Neuromorphic electronics biosensors</i>
10:15 – 10:45	<i>Coffee break</i>
Aula Magna “Aldo Moro” Chair: Tiziana Marino	
Aula “Gaetano Contento” Chair: Alberto Credi	
10:45 – 11:00	<b>O15 Francesco Bellia</b> CNR, Catania (Italy) <i>Reactive carbonyl species and copper(II) as competitive effectors of <math>\alpha</math>-Synuclein</i>
11:00 – 11:15	<b>O17 Daniela Lalli</b> Università del Piemonte Orientale, Alessandria (Italy) <i>Solution and solid-state NMR study of saponite clays intercalated with paramagnetic chelates</i>
11:15 – 11:30	<b>O19 Damiano Cirri</b> Università di Firenze, Firenze (Italy) <i>Labelling metallodrug candidates with fluorescent dyes: some relevant examples</i>
11:30 – 11:45	<b>O21 Erika Ferrari</b> Università di Modena, Modena (Italy) <i>Novel Curcumin-based radiotracers for Gallium-68 and Scandium-44</i>
11:45 – 12:00	<b>O23 Marilena Carbone</b> Università di Roma Tor Vergata, Roma (Italy) <i>Unrevealing the real pigment composition of green tattoo inks</i>
12:00 – 12:15	<b>O25 Eloisa Sardella</b> CNR, Bari (Italy) <i>Plasma Activated Liquid Media as new pharmacological formulations to exacerbate cell oxidative stress</i>
10:45 – 11:00	<b>O16 Giuseppe Valerio Bianco</b> CNR, Bari (Italy) <i>Chemical Vapor Deposition of 2D Materials</i>
11:00 – 11:15	<b>O18 Diego Colombara</b> Università degli Studi di Genova, Genova (Italy) <i>Point Defect Formation via Reactions at Chalcogenide Surfaces</i>
11:15 – 11:30	<b>O20 Marcello La Rosa</b> Università di Bologna, Bologna (Italy) <i>The reversible electronic energy transfer in quantum dots-based inorganic-organic nanohybrids</i>
11:30 – 11:45	<b>O22 Lorenzo Tesi</b> Università degli Studi di Firenze, Firenze (Italy) <i>Multitechnique Investigation for Rational Design of Molecular Spin Quantum Bits</i>
11:45 – 12:00	<b>O24 Mariangela Oggianu</b> Università di Cagliari, Cagliari (Italy) <i>Optical sensing of heavy metal ions by sol-gel based plasmonic nanostructures</i>
12:00 – 12:15	<b>O26 Nicolas Godbert</b> Università della Calabria, Rende (Italy) <i>Self-Assembling in Water Soluble Ir(III) Complexes: From Hydrogels to Nanostructured IrO<sub>2</sub> Thin Films</i>

12:15 – 12:30	<b>O27 Daniele A. Cauzzi</b> Università di Parma, Parma (Italy) <i>The coordination chemistry of a unique zwitterionic ligand</i>	<b>O28 Maria M Natile</b> CNR, Padova (Italy) <i>NIR-light-driven generation of reactive oxygen species using Ru(II)-decorated phospholipid-coated upconverting nanoparticles</i>
12:30 – 14:00	<b>Lunch</b>	
	<b>Aula Magna “Aldo Moro” Chair: Giovanni Natile</b>	
14:00 – 14:45	<b>PL3 Plenary Lecture: <u>Winner of Nasini Prize, Alessia Colombo</u></b> Università degli Studi di Milano, Milano (Italy) <i>Coupling of a Copper Dye with a Copper Electrolyte: the Birth of Sustainable “Full-Copper” Dye-Sensitized Solar Cells</i>	
14:45 – 15:15	<b>KN3 Keynote Lecture: <u>Michele Melchionna</u></b> Università degli Studi di Trieste, Trieste (Italy) <i>Chasing the nanocarbon in the wonderland of sustainable catalysis</i>	
	<b>Aula Magna “Aldo Moro” (Premi Dottorato 2019) Chair: Michele Aresta</b>	
15:15 – 15:30	<b>O29 Winner of the PhD Prize: <u>Davide Corinti</u></b> Dipartimento di Chimica e Tecnologie del Farmaco, Università di Roma “La Sapienza”, Roma (Italy) <i>Reaching a new level of understanding of the bioinorganic chemistry of Pt drugs using MS-based techniques</i>	
15:30 – 15:45	<b>O30 Winner of the PhD Prize: <u>Riccardo Freccero</u></b> Dipartimento di Chimica e Chimica Industriale, Università degli Studi di Genova, Genova (Italy) <i>Study of new polar intermetallic compounds: synthesis, structural relations and real space chemical bonding analysis</i>	
15:45 – 16:00	<b>O31 Winner of the PhD Prize: <u>Gabriel Menendez Rodriguez</u></b> Department of Chemistry, Biology and Biotechnology, University of Perugia and CIRCC (Italy) <i>Organometallic Iridium Complexes as Efficient Catalysts for Renewable Energy Applications</i>	
16:00 – 16:30	<b>Coffee break</b>	
	<b>Aula Magna “Aldo Moro” Chair: Francesco Fracassi</b>	<b>Aula “Gaetano Contento” Chair: Carlo Mealli</b>
16:30 – 16:45	<b>O32 Lidia Armelao</b> Università di Padova, Padova (Italy) <i>UV and X-ray Excited Optical Luminescence in Cr<sup>3+</sup> doped ZnGa<sub>2</sub>O<sub>4</sub> thin films: a case study</i>	<b>O33 Emanuele Priola</b> Università di Torino, Torino (Italy) <i>Bridging Solution and Solid-State Chemistry of Dicyanoaurate: The Case Study of Zn-Au Nucleation Units</i>
16:45 – 17:00	<b>O34 Daa Aref</b> Università di Napoli “Federico II”, Napoli (Italy) <i>Synthesis and characterization of a new class of Ru-based photosensitizer</i>	<b>O35 Rocco Caliandro</b> CNR, Bari (Italy) <i>Structural characterization of halide perovskites by X-ray measurements and advanced analysis</i>

17:00 – 18:00	<i>Poster session</i>
18:00 – 19:30	<i>Divisional Assembly</i>

**Wednesday 11 September 2019**  
University of Bari “Aldo Moro” Piazza C. Battisti 1

<b>Aula Magna “Aldo Moro” Chair: Adriana Saccone</b>	
9:00 – 9:45	<b>PL4 Paolo Chini Memorial Lecture: <u>Rinaldo Poli</u></b> Université de Toulouse, Toulouse (France) <i>Homolytically weak metal-carbon bonds and the persistent radical effect in metal-mediated radical polymerization</i>
9:45 – 10:15	<b>KN4 Keynote Lecture: <u>Petrus Henricus Maria Budzelaar</u></b> Università degli Studi di Napoli “Federico II” Napoli (Italy) <i>Innocent and Less Innocent Ligands</i>
10:15 – 10:45	<i>Coffee break</i>
<b>Aula Magna “Aldo Moro” Chair: Francesco Fracassi</b>	
<b>Aula “Gaetano Contento” Chair: Emma Gallo</b>	
10:45 – 11:00	<b>O36 Gigliola Lusvardi</b> Università di Modena, Modena (Italy) <i>Mesoporous bioactive glasses doped with cerium investigation over enzymatic-like mimetic activities and bioactivity</i>
11:00 – 11:15	<b>O37 Jacopo Andreo</b> Università di Parma, Parma (Italy) <i>Zwitterionic Metallates of HEtSNS: Synthesis and Characterization of Bis- and Tris-Chelated Coordination Compounds</i>
11:15 – 11:30	<b>O38 Stefano Cattaneo</b> Università degli Studi di Milano, Milano (Italy) <i>Carbonaceous materials for the selective hydrogenation of HMF</i>
11:30 – 11:45	<b>O39 Alessandro Motta</b> Università di Roma La Sapienza, Roma (Italy) <i>Theoretical Insights on a biocompatible reduction route of graphene oxide by N-acetyl cysteine</i>
11:45 – 12:00	<b>O40 Gabriele Manca</b> CNR, Sesto Fiorentino (Italy) <i>Electronic/Structural Aspects of the Functionalization of Phosphorene</i>
12:00 – 12:15	<b>O41 Fiorenza Fanelli</b> CNR, Bari (Italy) <i>Atmospheric pressure plasma processing of polyurethane sponges for oil-water separation</i>
12:15 – 12:30	<b>O42 Giorgio Facchetti</b> Università degli Studi di Milano, Milano (Italy) <i>A new artificial reductase based on the D-Ala-D-Ala/Vancomycin supramolecular interaction and its applications in the enantioselective reduction of cyclic imines</i>
12:30 – 12:45	<b>O43 Mariachiara Trapani</b> CNR, Messina (Italy) <i>Inorganic nanostructured templates for porphyrin J aggregates growth</i>
12:45 – 13:00	<b>O44 Ambra Maria Fiore</b> Politecnico di Bari, Bari (Italy) <i>Synthesis, characterization and catalytic applications of transition metal nanoparticles-based embedded in polymeric nanoreactors.</i>
13:00 – 13:15	<b>O45 Enrico Salvadori</b> Università di Torino, Torino (Italy) <i>Nature and Topology of Metal-Oxygen Binding Sites in Zeolite Materials</i>
13:15 – 13:30	<b>O46 Claudio Garino</b> Università di Torino, Torino (Italy) <i>Light-activated Generation of NO and SO<sub>3</sub><sup>-</sup> from a Ruthenium Nitrosylsulfite Complex</i>
13:30 – 13:45	<b>O47 Chiara Parise</b> Università di Bologna, Bologna (Italy) <i>Supported gold nanoparticles catalysts for organic transformations</i>

12:15 – 12:30	<b>O48 Elisa Moretti</b> Università di Venezia, Venezia (Italy) <i>Flower-like Ce-Ti oxide systems for the CO preferential oxidation under solar light irradiation</i>	<b>O49 Sofia Capelli</b> Università di Milano, Milano (Italy) <i>Influence of Pd NPs size for bio-adipic acid production from muconic acid and sodium muconate</i>
12:30 – 14:00	<b>Lunch</b>	
	<b>Aula Magna “Aldo Moro” Chair: Alceo Macchioni</b>	
14:00 – 14:45	<b>PL5 Plenary Lecture: <u>Massimiliano Delferro</u></b> Argonne National Laboratory USA <i>Catalysis and Inorganic Chemistry at U.S. DOE Argonne National Laboratory</i>	
14:45 – 15:15	<b>KN5 Keynote Lecture: <u>Salvatore Sortino</u></b> Università degli Studi di Catania, Catania (Italy) <i>Light-Triggered Activation and Synthesis of Hybrid Nanoconstructs for Biomedical Applications</i>	
	<b>Aula Magna “Aldo Moro” Chair: Michele Saviano</b>	<b>Aula “Gaetano Contento” Chair: Mario Chiesa</b>
15:15 – 15:30	<b>O50 Daniela Marasco</b> Università di Napoli Federico II, Napoli (Italy) <i>Inhibition of amyloid aggregation by transition metal complexes</i>	<b>O51 Fabio Palumbo</b> Università di Bari, Bari (Italy) <i>Plasma-assisted deposition of fungicide containing coatings for encapsulation and protection of maize seeds</i>
15:30 – 15:45	<b>O52 Francesco Attanasio</b> CNR, Catania (Italy) <i>Carnosine and trehalose-carnosine interplay in the activation of CREB functions and copper homeostasis</i>	<b>O53 Francesco Giannici</b> Università di Palermo, Palermo (Italy) <i>Assessing the Electrode-Electrolyte Compatibility in Solid-Oxide Cells with X-ray Microspectroscopy</i>
15:45 – 16:00	<b>O54 Diego Lamendola</b> Università di Pisa, Pisa (Italy) <i>Angiogenin bound to gold nanoparticles induces wound healing in the presence of copper ions</i>	<b>O55 Antonella Milella</b> Università di Bari, Bari (Italy) <i>Plasma-assisted deposition of iron oxide thin films as photoanodes for water splitting</i>
16:00 – 16:30	<b>Coffee break</b>	
16:30 – 17:30	<b>Poster session</b>	
17:30 – 19:30	<b>Tavola Rotonda “<u>La Tabella periodica e Primo Levi</u>”</b> (evento aperto agli insegnanti, scuole e alla cittadinanza) coordina <b>Pietro Greco</b> Chimico, Divulgatore, Giornalista Scientifico partecipano Prof <b>Michele Aresta</b> e Prof <b>Giovanni Natile</b>	
20:00 – end	<b>Social Dinner (Palace Hotel Bari TERRAZZA MURAT)</b>	

**Thursday 12 September 2019**  
University of Bari “Aldo Moro” Piazza C. Battisti 1

<b>Aula Magna “Aldo Moro” Chair: Francesco P. Fanizzi</b>	
9:00 – 9:45	<b>PL6 Plenary Lecture: <u>Clotilde Policar</u></b> École Normale Supérieure, Paris (France) <i>Metal complexes in biology: a new frontier in inorganic chemistry</i>
9:45 – 10:15	<b>KN6 Keynote Lecture: <u>Emilia Sicilia</u></b> Università della Calabria Arcavacata di Rende, Cosenza (Italy) Mechanism of action of metal-containing anticancer drugs. Insights from computations
10:15 – 10:45	<i>Coffee break</i>
<b>Aula Magna “Aldo Moro” Chair: Michele Saviano</b>	
<b>Aula “Gaetano Contento” Chair: Alceo Macchioni</b>	
10:45 – 11:00	<b>O56 Marta Erminia Alberto</b> Università della Calabria, Rende (Italy) <i>Dual-approach PtII-BODIPY conjugates: Theoretical Insights</i>
11:00 – 11:15	<b>O57 Francesco Nocito</b> Università degli Studi di Bari, Bari (Italy) <i>Valorization of C5 polyols by direct carboxylation to FDCA: synthesis and characterization of a key intermediate and role of carbon dioxide</i>
11:15 – 11:30	<b>O58 Gaetano Malgieri</b> Università della Campania, Caserta (Italy) <i>Metal ion recruitment drives the folding mechanism and self-association propensity of high homologous proteins</i>
11:30 – 11:45	<b>O59 Cristina Tubaro</b> Università di Padova, Padova (Italy) <i>Novel heterobimetallic complexes by coordination of nNHC/tzNHC heteroditopic carbene ligands</i>
11:45 – 12:00	<b>O60 Nazareno Re</b> Università di Chieti, Pescara (Italy) <i>Multiscale Modeling of the Au(I) Chelating Motif in Protein golB</i>
12:00 – 12:15	<b>O61 Andrea Ienco</b> CNR, Sesto Fiorentino (Italy) <i>Towards a Definition of Metal Organic NanoTube (MONT)</i>
12:15 – 12:30	<b>O62 Mauro Ravera</b> Università del Piemonte Orientale, Alessandria (Italy) <i>In vitro and In vivo Properties of Pt(IV) Bifunctional Prodrugs Containing the 2-(2-Propynyl)octanoato Axial Ligand</i>
12:30 – 12:45	<b>O63 Alice De Palo</b> Università di Pisa, Pisa (Italy) <i>Synthesis and investigation of new iridium complexes containing tetramethylcyclopentadienyl ligands variably substituted as potential catalysts for water oxidation</i>
12:45 – 13:00	<b>O64 Denise Lovison</b> Università di Udine, Udine (Italy) <i>Chiral ruthenium complexes: synthesis and evaluation of their anticancer activity</i>
13:00 – 13:15	<b>O65 Federico Nicoli</b> Università di Bologna, Bologna (Italy) <i>Ethereal Love: promoting ring-to-ring interaction in a [3]Rotaxane</i>
13:15 – 13:30	<b>O66 Alessandra Barbanente</b> Università degli Studi di Bari, Bari (Italy) <i>Platinum-loaded, Selenium-doped hydroxyapatite for potential applications in bone tumors therapy</i>
13:30 – 13:45	<b>O67 Francesca Tessore</b> Università di Milano, Milano (Italy) <i>Electronic Properties of Electron-Deficient Zn(II) Porphyrins for HBr Splitting</i>
13:45 – 14:00	<b>Final Event</b>
14:00 – 14:15	<b>Award Ceremonies</b>
14:15 – 14:30	<b>Closing</b>



