

PROGRAM ISOC-MMM, ALICANTE 2023

WEDNESDAY 31ST MAY

11:30-15:30 h	Registration
15:30-16:00 h	Opening Ceremony
16:00-16:50 h	PL-1. J. Cornellá: <i>"Tales on bismuth redox catalysis"</i> Rafael Usón-ORFEO CINQA Lecture. Chair: Prof. M. Oliván
16:50-17:45 h	Session 1. Chair: C. Alonso-Moreno
OC1	<u>S. Izquierdo:</u> <i>"Entry to unusual bis(heteroleptic) iridium(III) complexes"</i>
FP1	<u>P. Pérez-Ramos:</u> <i>"Synthesis, characterisation, and biological activity of gold(III) azol(in)ium-2-dithiocarboxylate complexes"</i>
FP2	<u>S. Hernández-Ibáñez:</u> <i>"Synthesis of homotropanonones from N-tert-butanesulfinyl keto imines and β-keto acids"</i>
OC2	<u>D. Padín:</u> <i>"Phosphoramidites: More than ligands in catalysis. Synthesis of chiral-at-P Alkenylphosphoramidates through a Ni-Catalyzed Alkenylation of Phosphoramidites"</i>
FP3	<u>S. Otero-Riesgo:</u> <i>"Rh(III)-Catalyzed twofold C-H activation of N-arylpyrroles: an easy entry to ullazines"</i>
FP4	<u>A. Lecuona:</u> <i>"Synthesis and characterization of Carbon Quantum Dots (CQDs) decorated with enantiomerically pure prolines"</i>
FP5	<u>A. I. Nicasio:</u> <i>"Main group complexes containing p-terphenyl bis(anilide) ligands"</i>
17:45-18:35 h	PL-2. V. H. Gessner: <i>"Metalated ylides: Synthetic entry to elusive reagents and efficient catalysts"</i> Chemistry-Europe Lecture. Chair: Prof. A. Vallribera
18:35-19:30 h	Session 2. Chair: R. M. Sebastián
OC3	<u>C. Clarke:</u> <i>"Automated generation of de novo molecular complexes from experimental databases"</i>
FP6	<u>G. Sanz-Liarte:</u> <i>"Charting new paths to BN-doped polycyclic aromatic hydrocarbons"</i>
FP7	<u>C. Ruiz-Zambrana:</u> <i>"Gold/Photoredox catalysis of NDI-derived complexes via oxidative addition Au(I)/Au(III) and singlet oxygen generation"</i>
OC4	<u>A. Granados:</u> <i>"Photoinduced methods for the Installation of the difluoroacetyl group in organic molecules"</i>
FP8	<u>N. R. Picazo:</u> <i>"Synthesis and reactivity of new osmium-sulfide complexes"</i>
FP9	<u>E Domínguez-Jurado:</u> <i>"Scorpionate ligands as scaffolds for the generation of ruthenium(II) metallodrugs. An alternative to platinum therapy"</i>
FP10	<u>J. Trujillo-Sierra:</u> <i>"Catalytic enantioselective 1,3-dipolar cycloaddition reaction to synthesize a new phosphine-amine catalyst"</i>
19:30-21:30 h	WELCOME COCKTAIL (MUA)

THURSDAY 1ST JUNE

9:00-9:50 h	PL-3. J. C. Peters: "Catalytic, electrocatalytic, and photocatalytic approaches to nitrogen fixation via PCET pathways" Lilly Lecture. Chair: Prof. M. A. Sierra
9:50-10:50 h	Session 3. Chair: D. Monge
OC5	F. de la Cruz-Martínez: "One-pot terpolymerization of cyclohexene oxide, CO ₂ and L-lactide using chloride indium catalysts"
FP11	D. Reyes-Mesa: "Versatile synthesis of linear precursors for semiconducting COFs"
FP12	J. Martín: "Proximal vs remote regio-control in iodane-guided C-H coupling"
FP13	J. F. Ortuño: "New strategy used for the preparation of sphingosine and ceramide derivatives based on a diastereoselective allylation"
OC6	M. Benítez: "Silver-Free Gold(I) Catalysis through Intermolecular H-Bonding Activation"
FP14	R. Januszewski: "Synthesis of organofunctionalized polyolefins through transition metal-catalyzed post-polymerization of polybutadiene"
FP15	C. Gutiérrez-Peña: "Dehydrative coupling of alcohols by iridium(III) complexes with N-heterocyclic-pyridine chelating ligands decorated with naphthalene-diimide"
FP16	M. Ramos-Martín: "Deep Eutectic Solvents as versatile reaction media in the C-C and C-X (X= P, N, S, B) bond formation"
10:50-11:30 h	COFFEE BREAK AND POSTER SESSION (1/4)
11:30-12:20 h	PL-4. M. Alcarazo: "Synthetic applications of cationic phosphines and sulfonium salts" GEQOR-RSEQ Lecture. Chair: Prof. J. M. Lassaletta
12:20-13:30 h	Session 4. Chair: J. Á. Varela
OC7	H. Corona: "Modulating Heterocumulene activation through Cooperative Iron-Lewis Acid Systems"
FP17	K. Korona: "A new look at molecular and electronic structure of [Fe ₂] ⁴⁺ amidinates: Combined experimental and theoretical study"
FP18	E. Blanco-López: "Diastereoselective 1,3-dipolar cycloaddition of chiral conjugated N-tert-butanefulfinylimines with imino esters"
OC8	K. Kuciński: "Main-group species as powerful catalysts in the synthesis of organometalloidal compounds"
FP19	R. García-Soriano: "Solvent-Free access to Lappert's heavier tetrylenes E{N(SiMe ₃) ₂ } ₂ (E = Ge, Sn, Pb)"
FP20	E. Serrano: "An uncommon activation of the innocent trispirazoly borate (Tp) ligand that leads to iridium/borane FLP-type reactivity"
FP21	S. Moreno-Blázquez: "Influence of the N,C,N-pincer ligand on the behavior and properties of platinum(II) complexes"
OC9	M. K. Bogdos: "Chemoselective Reactivity Governed by Ligand/Metal Choice in Group 10 Organometallic Complexes"

LUNCH 13:30-15:30 H

15:30-16:20	Session 5. Chair: A. M. López
OC10	B. Kooij: "Reactivity of Diazoolefins"
FP22	M. López-Aguilar: "Enantioselective transformation of primary alcohols into chiral aldols by a hybrid one-pot two-steps protocol"

FP23	<u>L. Goicoechea</u> : "Pd(II)-Catalyzed enantioselective C-H activation: Asymmetric annulations for the synthesis of azaheterocycles"
OC11	<u>M. Mu</u> : "Uncovering alkaline metal effects for deprotonative borylation of arenes via sodium mediation"
FP24	<u>S.-J. Burlingham</u> : "Visible-light-induced aerobic oxidation of xanthenes in deep eutectic solvents"
FP25	<u>B. Parra-Cadenas</u> : "Organometallic chemistry under air: selective conversion of nitriles into asymmetric alcohols"
16:20-17:10h	PL-5. R. J. Gilliard : "Redox chemistry of odd-electron boracycles" <i>Thieme Lecture</i> . Chair: Prof. C. Saá
17:10-17:50 h	COFFEE BREAK AND POSTER SESSION (2/4)
17:50-18:45	Session 6 . Chair: J. García-Álvarez
OC12,	<u>J. A. García-López</u> : "Pd-catalyzed two-fold Csp ³ -Csp ³ bond cleavage. Use of cyclobutanols as masked acetyl group in organic synthesis"
FP26	<u>P. Molinillo</u> : "Ruthenium nanoparticles as catalysts for chemoselective H/D exchange on hydrosilanes"
FP27	<u>M. A. Chacón-Terán</u> : "Design and synthesis of benchtop Fe(0) complexes: Looking for a reliable Iron(0) source for homogeneous catalysis"
FP28	<u>Á. Valdés</u> : "Photochemical cross-coupling of N-tosylhydrazones and boronic acids: A novel strategy for the synthesis of benzyl boronates"
OC13	<u>C. J. Laglera-Gándara</u> : "Hydrosilylation vs dehydrogenative coupling of silanes and electron rich alkenes? That is the question!"
FP29	<u>F. Rulli</u> : "Expanding the playground of BN-doped polycyclic aromatics through Pd-NBE cooperative catalysis"
FP30	<u>A. Belabbes</u> : "pseudo-Multicomponent 1,3-dipolar involving unactivated azomethine ylides in the preparation of drugs for the treatment of cystic fibrosis"
18:45-19:30 h	Meeting ORFEO-CINQA Committee

FRIDAY 2nd JUNE

9:00-9:50 h	PL-6. I. A. Tonks : "Strategies for catalytically breaking and making N-N bonds with Ti" <i>Scharlab Lecture</i> . Chair: Prof. M. Gómez-Gallego
9:50-10:50 h	Session 7 . Chair: A. B. Cuenca
OC14	<u>P. Barrio</u> : "Cycloisomerization of 1-bromoalkynes: activation of unbiased C-H bonds"
FP31	<u>S. Sánchez-Alonso</u> : "Gold-catalysed cycloaromatization of alkyl 2,4-dien-6-yne carboxylates. Synthesis of 6-substituted 2-alkoxybenzoate derivatives"
FP32	<u>K. Stefanowska</u> : "Directed cis-hydrosilylation of borylalkynes to borylsilylalkenes"
FP33	<u>P. Gómez-Roibás</u> : "Synthesis of densely functionalized cyclopropanes via an unexpected Cu-Bpin mediated dimerization of 4,4-dichloro-2-butenic acid derivatives"
OC15	<u>M. Plaza</u> : "Photochemical halogen-bonding assisted construction of C(sp ²)-S bonds: a combined synthetic and mechanistic study"
FP34	<u>M. Martín</u> : "Visible-Light mediated deaminative arylation of primary amines via isonitrile formation"
FP35	<u>K. Mituła</u> : "Reactions of terminal alkynes in the presence of a Rh-POP complex"
FP36	<u>S. Martínez-Vivas</u> : "Supramolecular control of the oxidative addition as a way for improving the catalytic efficiency of pincer-rhodium(I) complexes"
10:50-11:30 h	COFFEE BREAK AND POSTER SESSION (3/4)
11:30-12:20 h	PL-7. C. C. Lu : "Harnessing metal-metal interactions for catalysis"

	GEQO-RSEQ Lecture. Chair: Prof. J. A. Cabeza
12:20-13:30h	Session 8. Chair: F. Carrillo
OC16,	<u>S. Portela</u> : "Understanding the reactivity of diazaborinines towards the activation of σ -bonds"
FP37	<u>A. Guinart-Guillem</u> : "Fluorinated covalent organic frameworks for light induced hydrogen production from water"
FP38	<u>E. Francés-Poveda</u> : "Synthesis of bio-based polymers using friendly metal as one-component catalyst"
FP39	<u>L. Martínez-Castro</u> : "Developing a computational protocol to aid in the rational design of catalytic metallopeptides"
OC17	<u>W. W. Chen</u> : "Cyclic homo- and hetero-halogen bis- λ^3 -diarylhalonium structures"
FP40	<u>E. Soto</u> : "Unusual reactivity and catalysis with transition metal/germylene systems"
FP41	<u>H. F. Piedra</u> : "Photochemical stereoselective cross-coupling of thiols and vinyl halides through halogen bonding-assisted generation of vinyl radicals"
OC18	<u>Á. Vivancos</u> : "Effects of aggregate formation on the photophysical properties of $N^{\wedge}C^{\wedge}C$ Pt(II) complexes"

LUNCH 13:30-15:30 H

15:30-16:20h	Session 9. Chair: S. Conejero
OC19	<u>F. Auria-Luna</u> : "Testing the on surface behavior of mono- and bi-color sensors for Ba^{2+} tagging experiments"
FP42	<u>J. Molina-Canteras</u> : "Chelation study of Ba^{2+} ions in a dry medium by fluorescent bicolor indicators"
FP43	<u>D. González-Lizana</u> : "Synergic Al(III)/Mg(II)-based catalysts for the production of sustainable polymers"
OC20	<u>D. Marcos-Atanes</u> : "Enabling ortho-selective borylation of aromatic amides with CF_3 -modified bipyridine ligands"
FP44	<u>E. Raga</u> : "Reactivity of osmium(IV)-tetrahydride phosphinosilane and phosphinogermane derivatives with carboxylic acids"
FP45	<u>C. Ginés</u> : "Modified guanidines as ligands for main group complexes"
16:20-17:10 h	PL-8. Y Nakao : "Catalysis across Rh-Al bonds" Agilent Lecture. Chair: Prof. F. Rodríguez
17:10-17:50 h	COFFEE BREAK AND POSTER SESSION (4/4)
18:50-18:30 h	Session 10. Chair: A. Shafir
OC21	<u>C. Sánchez</u> : "Directed Pd-catalyzed δ -C(sp^3)-H thiolation of amino acid derivatives"
FP46	<u>A. Gallego-Gamo</u> : "Electron donor-acceptor complexes for the functionalization of arenes"
FP47	<u>S. Barbeira-Arán</u> : "Chemodivergent functionalization of C(sp^3)-H bonds with trifluoromethyl alkenes"
OC22	<u>J. F. Reynes</u> : "Main group mechanochemistry: challenges and opportunities for a sustainable society"
18:30-19:00 h	CLOSING REMARKS

21:30 H. SCHOOL DINNER (HOTEL MELIÁ-ALICANTE)