

Program

Sunday 11th June

16:00 – 21:30

Registration & welcome party

Monday 12th June

08:30 – 08:45

Opening of ISIC XXI

PL1

08:45 – 09:35

J.M.
Tarascon

Materials-Electrolyte-sensing innovations towards improved and sustainable battery chemistries

O1

09:35 – 09:55

K. Gotoh

Deposition of quasi-metallic / dendritic lithium in carbon electrodes of secondary batteries observed using operando solid state NMR

O2

09:55 – 10:15

M. Guignard

Designing new lithium layered oxides from sodium layered oxides to stabilize oxygen redox

10:15 – 10:35

Coffee break

KN1

10:35 – 11:10

S. Komaba

Electrochemical Li, Na, K, and Rb Insertion into Graphite and Hard-Carbon Electrodes

O3

11:10 – 11:30

R. Janot

Synthesis of high-performance hard carbons for Na-ion batteries and the understanding of their sodium storage mechanism

O4

11:30 – 11:50

L. Raspado

Hard carbon anodes for sodium-ion batteries: effect of pyrolysis under pressure

O5

11:50 – 12:10

V. Pralong

Design of new cathode material used as electrode for Na-ion batteries

12:10 – 13:45

Lunch

KN2

13:45 – 14:20

G. Rogez

Luminescent layered oxides and nanosheets: synthesis and characterization

O6

14:20 – 14:40

V. Kumar

Functionalization of lamellar cobalt(II) and zinc(II) simple hydroxides by N-salicylidene aniline molecules

O7

14:40 – 15:00

H.P. De
Rouville

Acridinium Recognition Units in Supramolecular Receptors for pi-donor/pi-acceptor recognition

O8

15:00 – 15:20

Z. An

Intercalation chemistry and confined asymmetric catalysis

15:40 – 16:10

Coffee break

O9

15:00 – 15:20

J. Feng

A Carbon-Negative Hydrogen Production Strategy based on LDHs material

O10

16:10 – 16:30

D. Arčon

The pairing symmetry in quasi-one-dimensional superconductor $\text{Rb}_2\text{Mo}_3\text{As}_3$

O11

16:30 – 16:50

G. Lamura

Superconductivity in hydrogen-intercalated titanium diselenide

O12

16:50 – 17:10

O.
Shimomura

Imidazoles-Intercalated α -Zirconium Phosphate as Latent Thermal Initiators in the Reaction of Epoxy Resin

O13

17:10 – 17:30

N.D. Kelly

Soft chemistry of layered titanium and vanadium oxytellurides

17:10 – 19:00

Poster session / Lorrain aperitif

Tuesday 13 th June			
PL2	08:30 – 09:20	Y. Gogotsi	Ions between the MXene Sheets – Intercalation, Actuation, Electrochemistry, and More
O14	09:20 – 09:40	L. Liu	Analysis of electrochemical actuators based on functionalized Ti ₂ C ₃ T _x MXene at microscale
O15	09:40 – 10:00	M. Elgaml	Topochemical Intercalation Reactions of ZrSe ₃
	10:00 – 10:20	Coffee break	
KN3	10:20 – 10:55	M. Kawaguchi	Intercalation of group 1 and 2 metals into B/C and B/C/N materials based on the graphite network
O16	10:55 – 11:15	L. Speyer	Structural and chemical study of barium-based graphite intercalation compounds
O17	11:15 – 11:35	K. Lemoine	New LiFe ₂ F ₆ form with High-Pressure Structure as a Potential Cathode for Lithium-Ion Batteries
O18	11:35 – 11:55	J. Wagner	Comparative study of kapok-based self supported composites with TiO ₂ or SiO ₂ usable in Li-ion batteries
	11:55 – 13:45	Lunch	
KN4	13:45 – 14:20	G. Williams	Theranostic formulations from layered inorganic materials
O19	14:20 – 14:40	M. Nocchetti	Layered double hydroxides-Zn rich hydroxyapatite composites as bioinspired reactive interfaces
O20	14:40 – 15:00	C.S. Neves	Liquid exfoliation of layered double hydroxides for application as nanoadditives in biocomposites
O21	15:00 – 15:20	S. Marcelin	Development of composite materials dedicated to corrosion prevention. Case study: epoxy/LDH-EDDS coating system
O22	15:20 – 15:40	T. Kim	Defect-reinforced hybridization route with exfoliated inorganic nanosheets to high-performance N ₂ reduction photocatalysts
	15:40 – 17:00	Coffee break / poster session	
O23	17:00 – 17:20	Y. Feng	Ultrathin intercalated structural “island” as antioxidation enhancing multifunctional nanofillers in thermo-oxidative degradation of polypropylene composites
O24	17:20 – 17:40	Y. Lin	Intercalation assembly method and preparation technology of layered double hydroxides materials
O25	17:40 – 18:00	K. Guérin	Multi-Metallic Template Fluorination applied on LDH and PBA to get fluoride-based cathode useable in solid state Li-batteries
O26	18:00 – 18:20	J. Sarmet	Investigations of layered hydroxide materials for electrochemical energy storage: the benefit of the cation composition but also of the guest species to develop new electrode materials
O27	18:20 – 18:40	E. André	Deciphering Layered Double Hydroxides structural and vibrational properties

Wednesday 14 th June			
PL3	08:30 – 09:20	M. Casas-Cabanas	Imperfect intercalation-based battery materials: the role of defects in electrochemical performance
O28	09:20 – 09:40	N. Emery	Ni/Mn order in $\text{LiMn}_{2-x}\text{Ni}_x\text{O}_4$ ($0.38 \leq x \leq 0.50$) positive electrode material: a gradual temperature-driven sublattice disorder through antiphase boundary defects
O29	09:40 – 10:00	R. Invernizzi	Does substituted iron improve the behavior of lamellar manganese birnessite in supercapacitors ? : a structural and electrochemical study
O30	10:00 – 10:20	S. De windt	Strategies to achieve stable manganese oxyfluorides by tuning the reactivity of pure molecular fluorine
	10:20 – 10:40	Coffee break	
O31	10:40 – 11:00	Y. Ohno	Electrochemical reservoir based on functionalized carbon nanotube electrodes for machine learning
O32	11:00 – 11:20	N. H. Kwon	Crucial role of multilayered conductive nanosheet as hybridization matrix in optimizing energy functionalities of nanostructured materials
O33	11:20 – 11:40	A. Mazel	Oriented Surface-Anchored Metal-Organic Frameworks (SurMOFs) as Electrochromic Active Thin Films
O34	11:40 – 12:00	C. Bisio	Synthetic saponite clays as heterogeneous catalysts for liquid-phase treatment of hazardous organophosphorus nerve agents simulants
	12:00 – 19:00	Excursion	
	20:00 – 23:00	Gala dinner	

PL4	08:30 – 09:20	J. L. Colón	Electrocatalysis and Drug Delivery Using Layered Zirconium Phosphate Nanomaterials
O35	09:20 – 09:40	M. Pica	A new zirconium mercaptoalkyl phosphonate as support for gold nanoparticles
O36	09:40 – 10:00	X. Jin	Defective holey 2D Ru ₂ P nanosheets for enhanced hydrogen evolution electrocatalysis
	10:00 – 10:30	Coffee break	
O37	10:30 – 10:50	S. Sasaki	Intercalation Chemistry of Polychalcogenides with 2D Array of Redox-Active Anionic Dimers
O38	10:50 – 11:10	A. Lechevallier	Characterization and stability of the nitrated AFm phase [Ca ₄ Al ₂ xFe _x (OH) ₁₂].(NO ₃) ₂ .4H ₂ O
O39	11:10 – 11:30	G. Celoria	Materials derived from natural kaolinite for the adsorption of pollutants in water and gas phase
O40	11:30 – 11:50	C. Ley	Hybrid photoinitiating systems in monomer resin containing Laponite® as filler for additive manufacturing
	11:50 – 12:00	Concluding remarks	
	12:00 – 13:45	Lunch	