SCIENTIFIC PROGRAM

Sunday, June 21

18.00-20.00 **Registration** *("Palais des congrès" – Arcachon)*
19:00-21:30 **Welcome party**

Monday, June 22

8:30-9:00 **Opening - C. Delmas**, Chairman

9.00-9:40 INV1 **The rechargeable lithium battery: where do we go from here?**
Peter Bruce **-** *University of Oxford (UK)*

9:40-10:20 INV2 **Interface design for advanced oxide-based all-solid-state batteries**
Yasutoshi Iriyama **-** *Nagoya University (Japan)*

10:20-10:50 *Coffee Break*

10:50-12:30 **Posters session**

12:30-14:30 *Lunch break*

14:30-15:30 **SOLID STATE**

(8 min each)

O01 **Sintering of phase pure garnet $Li_7La_3Zr_2O_{12}$ nanoparticles obtained via a solid state route from a highly reactive precursor**
M. Senna *- Keio University (Japan)*

O02 **All-solid-state Li and Li-ion thin film batteries, miniaturized power sources dedicated to microsystems and internet of things**
B. Pecquenard *- ICMCB-CNRS, Univ. Bordeaux, (France)*

O03 **Preparation of Idiomorphic Active Material Crystals/$Li_{2-x}C_{1-x+y}B_xO_d$ Glass Hybrids by Using Flux-growth Approaches and Characterization of Their All-solid-state LIBs properties**
Z. Nobuyuki *- Shinsu University (Japan)*

O04 **Structural behavior and fast lithium-ion conduction in Li4SiO4-Li3PO4 solid electrolytes**
Y. Deng *- Laboratoire de Réactivité et Chimie des Solides, Amiens (France)*

>> ***General discussion***

15:30-16:20 **INTERFACES**

(8 min each)

O05 **Cycling-Related Electrolyte (De-)Composition in an EC/EMC Based Battery System**
P. Novak *- Paul Scherrer Institute (Switzerland)*

O06 **What happens at the interface between interphase and electrode? A potential discussion motivated from photoelectron spectroscopy characterizations**
J. Maibach *- Ångström Laboratory, Uppsala University (Sweden)*

O07 **Development of Novel Pyridine-Boron Trifluoride Electrolyte Additives for Lithium-Ion Batteries**
M. Nie *- Dalhousie University (Canada)*

>> ***General discussion***

16:20-16:50 *Coffee Break*

16:50-17:50 **Li-SULFUR**

(8 min each)

O08 **Improvement of Li-Sulfur batteries with zeolites as polysulfides sorbent: an XPS study**
R. K. Chellappan *- IPREM-CNRS, University of Pau (France)*

O09 **Lithium sulfur rechargeable batteries utilizing solid electrolytes**
R. P. Rao *- National University of Singapore (Singapore)*

O10 **Revisiting sulfur electrochemistry in non-aqueous electrolytes: Impact on lithium-sulfur cell design and performance.**
M. Cuisinier *- Qatar Environment and Energy Research Institute (Qatar)*

O11 **Degradation of LSB Electrodes investigated with X-ray Phase Contrast Tomography**
L. Zielke **-** *IMTEK University of Freiburg (Germany)*

>> ***General discussion***

17:50-19:00 **Posters session**

19:00 **Welcome Cocktail**

Tuesday, June 23

8:30-9:10 **INV3** **The superstructure of the $A_{2/3}MPO_4$ phases (A = Li, Na, M = Fe, Co), key intermediates in the reaction mechanism of A_xMPO_4 systems**
Florent Boucher *- Institut des Matériaux Jean Rouxel, Nantes (France)*

9:10-10:20 **OLIVINE**

(8 min each)

O12 **What is the rate limiting charge transfer mechanism in $LiFePO_4$ electrodes? How do individual $LiFePO_4$ grains transform depending on the cycling rate? Answers from in operando Neutron Depth Profiling and in operando Micro Beam Diffraction**
M. Wagemaker *- Delft University of Technology (The Netherlands)*

O13 **Relationship between Reaction Distribution and Ionic Conductivity in $LiFePO_4$ Composite Electrode**
Y. Orikasa *- Kyoto University (Japan)*

O14 **Power Hysteresis in $LiFePO_4$ cells**
A. Gruhle *- Daimler AG, Ulm (Germany)*

O15 **Phase evolution in single-crystalline $LiFePO_4$ in a micrometer-sized battery followed by in-situ scanning transmission X-ray microscopy**
N. Ohmer *- Max Planck Institute for Solid State Research, Stuttgart (Germany)*

O16 **High energy density of binder-free sintered electrodes made by Spark Plasma Sintering**
V. Seznec *- Laboratoire de Réactivité et Chimie des Solides, Amiens (France)*

>> ***General discussion***

10:20-10:50 *Coffee Break*

10:50-12:00 **SPINEL**

(8 min each)

O17 **Phase Transition Dynamics in LiNiMnO micro-particles**
H. Arai *- Kyoto University (Japan)*

O18 **The Mechanism of Mn and Ni Dissolution at the $Li_xNi_{0.5}Mn_{1.5}O_{4-d}$ / Organic Carbonate Electrolyte Interface**
R. Kostecki *- Lawrence Berkeley National Laboratory (USA)*

O19 **Atomic scale drivers for the order/disorder transition of LiNiMnO and effect on the electrochemical properties**
M. Casas-Cabanas *- CIC energiGUNE (Spain)*

O20 **Oxygen partial pressure and temperature dependence of electrical conductivities in LiMnNiTiO (x=0, 0.5 and y=0, 0.5)**
S. Abe *- Tokyo City University (Japan)*

O21 **Characterization for the $LiNi_{0.5}Mn_{1.5}O_4$ Prepared at Various Conditions**
S. H. Wu *- Tatung University (Taiwan)*

>> ***General discussion***

12:00-14:00 *Lunch break*

14:00-14:40 **INV4** **Atomic Resolution STEM and Spectroscopic Characterization of Li Ion Battery Related Crystals**
Yuichi Ikuhara **-** *The University of Tokyo (Japan)*

14:40-16:10 **Posters session and Coffee Break**

16:10-17:50 **POLYANION**

(8 min each)

O22 **Fe defects control Na^+ pathways and power performance in alluaudite-type low cost high voltage cathode material $Na_{2+d}Fe_{2-d/2}(SO_4)_3$**
R.P. Rao *- National University of Singapore (Singapore)*

O23 **$Na_3V_2(PO_4)_2F_3$: crystal structure and phase transformations upon Na^+ extraction of a promising positive electrode**
M. Bianchini *- Institut Laue-Langevin, Grenoble (France)*

O24 **Determining performance-limiting mechanisms in fluorophosphate sodium-ion battery cathodes via transition-metal substitution and first-principles calculations**
I. Matts *- Massachusetts Institute of Technology (USA)*

O25 **Low-polarization Na-ion battery with chromium-substituted sodium vanadium phosphate cathodes and sodium titanium phosphate anode**
P. Lavela *- Departamento de Quimica Inorganica e Ingenieria Quimica, Cordoba (Spain)*

O26 **Sodium-Ion Diffusion and Voltage Trends in Phosphates $Na_4M_3(PO_4)_2P_2O_7$ (M = Fe, Mn, Ni, Co) for Possible High Rate Cathodes**
S. Wood - *University of Bath (United Kingdom)*

O27 **Sodium Intercalation into the Iron Hydroxysulfate $NaFe_3(SO_4)_2(OH)_6$: a Topotactic Reversible Reaction from a Crystalline Phase to an Inorganic Polymer-like structure**
V. Pralong - *Laboratoire de Cristallographie et Sciences des Matériaux, Caen (France)*

O28 **$Li_2Cu_2O(SO_4)_2$: a possible electrode for sustainable Li-based batteries showing a 4.7 V redox activity vs. Li^+/Li^0**
M. Sun - *Collège de France, Paris (France)*

>> ***General discussion***

17:50-19:00 **Posters session**

Wednesday, June 24

8:30-9:10 **INV5** **Ion Dynamics in Electrodes and Electrolytes as Characterized by Magnetic Resonance Spectroscopy and Imaging**
Gillian Goward - *McMaster University, Hamilton (Canada)*

9:10-:10:40 **NEGATIVE-OTHERS**

(8 min each)

O29 **MXene Nanosheets for Negative Electrode Materials of Sodium-Ion Batteries**
M. Okubo - *The University of Tokyo (Japan)*

O30 **On the high and low temperature performances of Na-ion batteries: Hard carbon a case study**
A. Ponrouch - *Institut de Ciència de Materials de Barcelona (Spain)*

O31 **Characterisations and electrochemical performances of hard carbons in sodium ion batteries**
V. Simone - *Univ. Grenoble Alpes, CEA, LITEN (France)*

O32 **In operando XRD/electrochemistry investigation of lithium insertion into anatase-derived titanium oxyfluoride $TiOF_2$**
K. Guérin - *Institut de Chimie de Clermont-Ferrand (France)*

O33 **Hydrides as novel high capacity anodes for lithium batteries**
S. Brutti - *Università della Basilicata (Italy)*

O34 **Electrochemical mechanism and high performances of Bi and Mg_3Bi_2 as negative electrodes for Mg batteries**
F. Murgia - *Institut Charles Gerhardt, Montpellier (France)*

>> ***General discussion***

10:40-11:10 *Coffee Break*

11:10-12:10 **Li-AIR**

(8 min each)

O35 **Introduction of additives to nonaqueous Li-O_2 cells**
D. Aurbach - *Bar Ilan University (Israel)*

O36 **Understand the reaction mechanism and re-chargeability of Li-O_2 battery via Electrochemical Quartz Crystal Microbalance study**
F. Bardé *- Toyota Motor Europe (Belgium)*

O37 **Operando XRD view on the structure of Li_2O_2 during charge and controlling the morphology using NiO seed crystals to enhance cycle life time of Li-air batteries**
S. Ganapathy *- Delft University of Technology (The Netherlands)*

O38 **Nanostructured Oxygen Selective Membrane for Li-Air Battery Operating In Ambient Air**
J. Amici *- Politecnico di Torino (Italy)*

>> ***General discussion***

12:10-20:00 ***FREE AFTERNOON***

20:00 **BANQUET** (« Château Smith Haut Laffite » Martillac)

Thursday, June 25

8:30-9:10 **INV6** **Improving the rate capability of Li (Na)-ion batteries by constructing porous carbon network**
Yan Yu **-** *University of Science and Technology of China and Max Planck Institute for Solid State Research, Stuttgart (Germany)*

9:10-10:30 **CHARACTERIZATION**

(8 min each)

O39 **Relaxation effects of the negative electrode TiSnSb using ^{119}Sn Mössbauer and ^{7}Li MAS NMR spectroscopies**
N. Dupré *- Institut des Matériaux Jean Rouxel, Nantes (France)*

O40 **Chemical and electronic properties of thin film layered cathode materials: electron spectroscopy, X-ray diffraction and electrochemical studies**
G. Cherkashinin *- Technische Universität Darmstadt (Germany)*

O41 **Operando Magnetic Resonance Spectroscopy and Imaging of batteries**
E. Salager *– CEMHTI, Orléans (France)*

O42 **NAPXPS- a surface sensitive method for studying electrochemical interfaces in operando**
M. Hahlin *- Ångström laboratory, Uppsala University (Sweden)*

O43 **Operando X-ray Absorption Spectroscopy of NCA Particles**
L. Nowack *- ETH Zurich (Switzerland)*

O44 **Monitoring of the SEI-Evolution of Uncoated and Carbon-Coated Si Nanoparticles by Transmission Electron Microscopy and Electrochemical Impedance Spectroscopy**
K. Van Havenbergh *- EMAT - Antwerp (Belgium)*

>> ***General discussion***

10:30-11:00 *Coffee Break*

11:00-11:40 **INV7** **New High Capacity Electrode Materials for Rechargeable Li/Na Batteries**
Naoaki Yabuuchi *- Tokyo Denki University (Japan)*

11:40-12:30 **Na-LAYERED**

(8 min each)

O45 **Irreversible reaction in $NaCoO_2$ by insertion and extraction of sodium**
T. Kobayashi *- Central Research Institute of Electric Power Industry (Japan)*

O46 **P2-type: crystallography, crystal chemistry, and how to avoid Na^+ ordering**
M. Avdeev *- ANSTO (Australia)*

O47 **A Comparison of O3-$NaFe_x(Co_{0.5}Ni_{0.5})_{1-x}O_2$ and O3-$NaFe_xCo_{1-x}O_2$ for Na-ion Battery Positive electrodes**
J. S. Thorne *- Dalhousie University (Canada)*

O48 **Solid-state NMR and DFT: powerful tools for the study of the processes occurring upon cycling of sodium transition metal oxides**
R. Clément *- University of Cambridge (United Kingdom)*

>> ***General discussion***

12:30-14:30 *Lunch break*

14:30-16:10 **Li-LAYERED**

(8 min each)

O49 **Understanding the structure of Li-rich layered oxide for lithium-ion battery**
H. Yu *- Beijing University of Technology (China)*

O50 **Developing new electrolyte systems for high voltage cycling and in situ neutron diffraction experiments: Highly concentrated electrolytes**
R. Petitbon *- Dalhousie University (Canada)*

O51 **Understanding of Li-rich Layered Oxide Cathode Materials for Lithium Ion Batteries**
B-J. Hwang *- National Taiwan University of Science and Technology (Taiwan)*

O52 **Analysis of the voltage decay in Li-Rich materials**
J-F. Colin *- Univ. Grenoble Alpes, CEA, LITEN (France)*

O53 **Improvement of the high temperature cyclability of $LiNi_{0.5}Co_{0.2}Mn_{0.3}O_2$ by flake-shaped Alumina surface coating.**
C.E. Liu *- Industrial Technology Research Institute (Taiwan)*

O54 **Redox plateau decay in extended cycling of $Li_2Ir_{1-x}Sn_xO_3$ positive electrode materials**
E. McCalla *–Collège de France, Paris (France)*

O55 **The role additive on improving performances of Lithium-Rich cathode**
M. Anouti **-** *Physico-chimie des Matériaux et des Electrolytes pour l'Energie, Tours (France)*

O56 **Electrochemical performance of a layered-spinel integrated Li[Ni1/3Mn2/3]O2 as a high capacity cathode material for Li-ion batteries**
P. K. Nayak *- Bar-Ilan University (Israel)*

>> ***General discussion***

16:10-16:40 *Coffee break*

16:40-17:50 **NEGATIVE-Si**

(8 min each)

O57 **Stress-Voltage Coupling in Si Alloys**
M. Obrovak *- Dalhousie University (Canada)*

O58 **Coupling surface imaging, spectroscopy and focused ion beam for a better understanding of lithiation mechanisms of silicon electrodes for Li-ion battery applications.**
A. Bordes *- Laboratoire de Physico-Chimie des Surfaces, Chimie ParisTech, (France)*

O59 **Influence of silicon and carbon contents on the microstructure and electrochemical performances of Si/$Ni_{3.4}Sn_4$/Al/C composites used as negative electrodes for Li-ion batteries**
T. Azib *- Institut de Chimie et des Matériaux Paris Est (France)*

O60 **Benefits of silicon carbonitride matrices on the cycling stability of silicon anodes in LIBs**
D. Vrankovic *- Technische Universität Darmstadt (Germany)*

O61 **Synergistic effects of Ge and Si on the performances and mechanisms of Ge_xSi_{1-x} electrode for Li-ion batteries**
D. Duveau *- Institut Charles Gerhard, Montpellier (France)*

>> ***General discussion***

Friday, June 26

8:30-9:10 **INV8** **Linking electrode kinetics to crystallography and chemistry**
Anton Van der Ven *- University of California Santa Barbara (USA)*

9:10-9:50 **INV9** **X-ray Microscopies for Studying Lithium Ion Batteries**
Vanessa Wood *- ETH Zurich (Switzerland)*

9:50-10:10 *Coffee break*

10:10-12:00 **Discussions on transverse topics**
Conclusion

Posters List

N°	Topic	Author	Title
P01	Solid State	Burbano Mario	*Structure and ionic conductivity of lithium garnets*
P02	Solid State	Flamary Florian	*Iron disulfide, a high performance positive electrode material in thin film lithium batteries.*
P03	Solid State	Kimura Yuta	*Evaluation of Li Chemical Potential of Mechanically Stressed Li Ion Batteries Cathodes*
P04	Solid State	Loho Christoph	*Potential of Novel CO_2-Laser Assisted Chemical Vapor Deposition for All-Solid-State Thin-Film Li-Ion Battery Research*
P05	Solid State	Pelé Vincent	*Iron molybdate as an electrode material for Na and Li thin films batteries*
P06	Solid State	Rawlence Michael	*Solid State $Li_7La_3Zr_2O_{12}$ Thin Film Electrolyte by Pulsed Laser Deposition: Deposition, Crystallization, Near Order Characteristics vs. Lithiation*
P07	Solid State	Ritter Helene	*Investigations on Lithium/LIPON interfaces for Li-ion microbatteries*
P08	Solid State	Tarhouchi Ilyas	*$Li_{10}SnP_2S_{12}$: an electrolyte and electrode material for all-solid state batteries?*
P09	Solid State	Katoh Yuki	*Ionic conductivities of solid solutions with LGPS-type crystal structure*
P10	Interface	Chen Zonghai	*Investigating Parasitic Reactions in Lithium Batteries*
P11	Interface	Downie Laura	*Effect of electrolyte solvents and additives at high voltage studied using isothermal microcalorimetry and ultra high precision coulometry*
P12	Interface	Freunberger Stefan	*Long chain alkyl carbonates as SEI modifiers: Ion transport, structure and electrochemistry of the parent electrolytes*
P13	Interface	Gonser Andreas	*Slurry based composite electrodes vs. Si thin films - SEI investigations*
P14	Interface	He Minglong	*In situ Gas Analysis of $Li_4Ti_5O_{12}$ Based Electrodes at Elevated Temperatures*
P15	Interface	Horstmann Birger	*Morphology of Solid Electrolyte Interphase: A Model Based Approach*
P16	Interface	Koyama Yukinori	*Density functional study on $LiCoO_2$ surfaces*
P17	Interface	Schulz Natalia	*XPS analysis of composite cathodes: SEI-formation at different depth and spectral interpretation*
P18	Interface	Späth Thomas	*Towards a more fundamental understanding of SEI formation: $LiCoO_2$-solvent interaction studied with surface science methods*
P19	Interface	Suzuki Kota	*Analysis of Coating Effects on $LiMn_2O_4$ Epitaxial Thin Film Electrode*
P20	Li- sulfur	Conder Joanna	*Taming the polysulfide shuttle in Li-S battery*
P21	Li- sulfur	Moog Iona	*Li-S batteries in Johnson Matthey*
P22	Olivine	Anne Henri	*New insights into the kinetics of Na insertion and extraction into the $FePO_4$/$NaFePO_4$ system*
P23	Olivine	Gounder Adiel	*Synthesis and Characterization of $LiMnPO_4$ Cathode Material Prepared by a Novel Sol-Gel Method*
P24	Olivine	Kwon Nam Hee	*Opportunities and Risks of Nano-$LiMnPO_4$: ionic diffusivity and life cycle assessments*
P25	Olivine	Manzi Jessica	*Self-discharge in $LiCoPO_4$ electrodes*
P26	Olivine	Mori Takuya	*Origin of High Rate Capability of $LiFePO_4$ Investigated by Time-resolved X-ray Diffraction at Various Operating Temperatures*
P27	Spinel	Boulet Lucien	*Operando neutron powder diffraction of $LiNi_{0.5}Mn_{1.5}O_4$ vs. graphite performed in a cylindrical cell*
P28	Spinel	Dräger Christoph	*Titanium substituted $LiCoTi_xMn_{1-x}O_4$: in situ powder diffraction on high-voltage spinels*

P29	Spinel	Komine Shigeki	*Electrochemical Properties of Thick, Dense Single Crystal Electrodes Fabricated by Flux-coating*
P30	Spinel	Lee Jung Hwa	*High electrochemical performance of high voltage $LiNi_{0.5}Mn_{1.5}O_4$ by decoupling the Ni/Mn disordering from the presence of Mn^{3+} ions*
P31	Spinel	Sonoda Takashi	*Development of Acetylene Black for High voltage based Lithium-ion secondary battery*
P32	Spinel	Seidel Matthias	*Characterization of $LiNi_{0.5}Mn_{1.5}O_4$ synthesized using different acetate/nitrate-precursors*
P33	Spinel	Younesi Reza	*Electrochemical and surface properties of the high voltage spinel cathode material $LiCr_{0.2}Ni_{0.4}Mn_{1.4}O_4$*
P34	Polyanion	Bamine Tahya	*Understanding the defect in $LiVPO_4F$: a combined NMR and DFT calculations study*
P35	Polyanion	Chotard Jean-Noël	*Low temperature NASICON $Na_3V_2(PO_4)_3$ - An incommensurate modulated crystal structure*
P36	Polyanion	Fedotov Stanislav	*Structure-property relationships in $A_2Co_{1-x}M_xPO_4F$ (A = Li, Na; M = Mn, Fe) fluoride-phosphate cathode materials for rechargeable batteries*
P37	Polyanion	Heath Jennifer	*NaFePO4 Cathodes for Sodium-ion Batteries: Why is Olivine More Promising Than Maricite?*
P38	Polyanion	Colin Jean-François	*A novel Li-battery cathode material: synthesis and characterization of $Li(Mn_{1-x}Co_x)BO_3$*
P39	Polyanion	Liivat Anti	*Evidence for a >1 electron reaction in Li_2FeSiO_4: an in situ Mössbauer spectroscopy study*
P40	Polyanion	Mancini Marilena	*Study on the stability of Li_2MnSiO_4 cathode material in different electrolyte systems for Li-ion batteries*
P41	Polyanion	Kim Minkyung	*Superior rate capability of 4.2V-$LiVPO_4F$ synthesized by scalable and single-step solid-state reaction*
P42	Polyanion	Oyama Gosuke	*Structure and electrochemical properties of alluaudite-type sodium iron sulfate*
P43	Polyanion	Serras Paula	*Influence of synthesis method on sodium vanadium fluorophosphates cathodes for Na-ion batteries*
P44	Polyanion	Reichardt Martin	*Lithium chromium phosphate $Li_3Cr_2(PO_4)_3$ as cathode material for Li-ion batteries*
P45	Polyanion	Zhang Leiting	*Influence of humidity on the handling of LiFeSO4F electrode for Li-ion batteries*
P46	Negative-Others	Guérin Katia	*Surface fluorination of commercial LTO in order to overcome the low electrochemical performances of Li_2TiO_3 set onto LTO*
P47	Negative-Others	Balachandran Geethu	*Comparison of electrochemical performances and elucidation of electrochemical mechanism of conversion type anodes MFe_2O_4 (M = Fe, Co, Ni and Cu) for Li-Ion Batteries*
P48	Negative-Others	Bourrioux Samantha	*$ZnFe_2O_4$ nanoparticles synthesis by laser pyrolysis: interest as new anode material for lithium-ion batteries*
P49	Negative-Others	Brutti Sergio	*The MgH_2 conversion reaction in a lithium cell: a computational study*
P50	Negative-Others	Eames Christopher	*Ion Intercalation into Two-dimensional Transition Metal Carbides: are 'MXenes' a Suitable Anode Material for Li-, Na- and Mg-ion Batteries?*
P51	Negative-Others	George Chandramohan	*Improved Li ion kinetics using Carbon Nanotubes as conductive additives in conversion electrodes for Li ion batteries*
P52	Negative-Others	Klingeler Rüdiger	*Mn3O4 nanoparticles inside carbon nanotubes: A new high-performance anode material for lithium-ion batteries*
P53	Negative-Others	Maharajan Sivarajakumar	*Sn/C composite anode materials for lithium ion batteries*

P54	Negative-Others	Miléna Martine	*NaSbSn compound as negative material for Na cells at room temperature*
P55	Negative-Others	Parzych Grzegorz	*Li-Al-Mg as potential anode material for Li-ion batteries*
P56	Negative-Others	Periyapperuma Kalani	*Reversible Magnesiation of Pb*
P57	Negative-Others	Prutsch Denise	*Nanoarchitectured Titania as Anode Material for Na-Ion Batteries*
P58	Negative-Others	Saurel Damien	*Disordered carbons as negative electrode materials for Na-ion batteries*
P59	Negative-Others	Silvestri Laura	*On the reactivity of Sodium Alanates in lithium batteries*
P60	Negative-Others	Silvestri Laura	*LiAlH4 and Li_3AlH_6 as conversion anodes for lithium ion batteries*
P61	Negative-Others	Uitz Marlena	*Li Insertion Behaviour of Rutile TiO_2 Nanorods as Anode Material in Lithium-Ion Batteries*
P62	Negative-Others	Vankova Svetoslava	*Characterization of commercial Al alloy as low cost anode material for Li-ion batteries*
P63	Negative-Others	Villevieille Claire	*Bulk analysis of Sn-electrodes in sodium ion batteries using XRD and first principle calculation*
P64	Negative-Others	Vogt Leonie	*MSn_2 (M=Fe, Co) intermetallics as anode materials in Na-ion batteries: controlling volume expansion through reaction pathway engineering*
P65	Negative-Others	Walter Marc	*Nanocrystals as High-Performance Anode Materials for Sodium-ion Batteries*
P66	Negative-Others	Wang Luyuan Paul	*Laser pyrolyzed SnO_2 nanoparticles as anode material in Sodium ion Batteries*
P67	Negative-Others	Yu Yan	*How to get a conversion reaction reversible? Lithium storage in metal sulphide nanodots*
P68	Negative-Others	Zheng Lituo	*Electrochemical Reaction Mechanism of Tin Phosphide with Sodium by Ex-situ X-ray Diffractometry and Mössbauer Effect Spectroscopy*
P69	Li-air	Goward Gillian	*Characterization of Discharge Products in Metal-Oxygen Batteries by Solid State NMR*
P70	Li-air	Guéguen Aurélie	*Dynamics of the porous carbonaceous O_2 electrode interface: a combined XPS and OEMS study*
P71	Li-air	Lepoivre Florent	*In-situ pressure monitoring of Li-Oxygen cells: Towards a better understanding of gas reduction and evolution reactions*
P72	Li-air	Zeng Juqin	*Optimizing nonaqueous electrolytes for high-performance Li-O_2 batteries*
P73	Characterization	Ortiz Gregorio	*Comparative view of ions-storage in nanostructured TiO_2 materials in both non-aqueous and aqueous electrolyte solutions*
P74	Characterization	Guérin Katia	*Low temperature rhombohedric iron trifluoride with a mesoporous texture for lithium batteries.*
P75	Characterization	Guérin Katia	*Core-shell Ni-NiF_2 as cathode materials for secondary lithium batteries*
P76	Characterization	Berhaut Christopher	*LiTDI as electrolyte salt for Li-ion batteries: electrolyte transport properties and cyclability of Li/Graphite and Li/$LiFePO_4$ half cells.*
P77	Characterization	Bianchini Matteo	*Operando Neutron Diffraction Studies of Li-ion Battery Electrodes*
P78	Characterization	Cabelguen Pierre-Etienne	*Analysis of the active material microstructure constituting the positive electrode in lithium-ion batteries application.*
P79	Characterization	Fingerle Mathias	*Photoelectron spectroscopy on electrode/solid electrolyte interfaces: Interface formation and energy level alignment*
P80	Characterization	Huynh Tan Vu	*Transport and Dynamics of Ionic Species in Block Copolymer Electrolytes for Solid-State Lithium Batteries Elucidated by NMR*

P81	Characterization	Iadecola Antonella	*Vite fait bien fait : electrochemistry on the ROCK beamline*
P82	Characterization	Kajiyama Akihisa	*Grain Boundary Composition of Cathode Active Materials on Lithium Ion Battery Performance*
P83	Characterization	Kimura Yuta	*Evaluation of the Effective Reaction Zone in $LiCoO_2$ Composite Cathode by Two Dimensional In-situ X-ray Absorption Spectroscopy*
P84	Characterization	Nako Yuki	*Finite Element Model for Electrical Conduction in Lithium Battery Slurry*
P85	Characterization	Pietsch Patrick	*Microstructure dynamics in graphite-based electrodes during battery operation*
P86	Characterization	Self Julian	*In Situ Volume Studies of Li-Ion Cells and Reaction Pathways for Gas Production*
P87	Characterization	Takano Mikio	*In-situ Mössbauer Spectroscopic Study of the Redox Reactions of a Bacterial Fe-Oxide, L-BIOX*
P88	Characterization	Xiong Baokou	*Measurement of CO_2 solubility in ionic liquids based electrolytes for lithium-ion batteries*
P89	Na-Layered	Carlier Dany	*The $Nax(Fe,Mn)O_2$ layered oxides used in Na Batteries : structural transformations and redox processes*
P90	Na-Layered	Delmas Claude	*Revisiting the $NaxNiO_2$ system*
P91	Na-Layered	Santos Pena Jesus	*Effect of the spectator ion, M', on the electrochemical performance of $Na_{0.67}(Mn,M')O_2$ in sodium ion batteries*
P92	Na-Layered	Vitoux Laura	*Structural rearrangements in sodium layered oxides Na_xMoO_2 during electrochemical sodium (de)intercalation*
P93	Na-Layered	Yoshida Jun	*Structural investigation of $Na_{0.70}Mn_{0.60}Ni_{0.30}Co_{0.10}O_2$ as positive electrode material for Na-ion batteries*
P94	Na-Layered	Freire Mélanie	*Amorphous sodium vanadate, A new matrix for high density Na ion batteries*
P95	Li-Layered	Brog Jean-Pierre	*Nano-lithium cobalt oxide: organometallic precursors as source of high Li-ion diffusion oxides for battery purpose.*
P96	Li-Layered	Croguennec Laurence	*Insight in the Atomic Structure of Cycled Lithium-rich Layered Oxide $Li_{1.20}Mn_{0.54}Co_{0.13}Ni_{0.13}O_2$ using HAADF STEM and Electron Nano Diffraction*
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P98	Li-Layered	Aurbach Doron	*Novel studies of structural and surface modifications of positive electrodes for lithium-ion batteries*
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P100	Li-Layered	Madec Lenaic	*Effect of a Combination of Electrolyte Additives on $LiNi_{0.42}Mn_{0.42}Co_{0.16}O_2$ (NMC442)/Graphite Pouch Cell Lifetime: Electrochemical versus XPS analysis*
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P102	Li-Layered	Pajot Ségolène	*Development of a Lithium and Manganese-rich Layered Oxide with Concentration Gradient for High Energy Density Lithium-ion Batteries*
P103	Li-Layered	Pradon Alexandre	*Li-rich lamellar oxide: Influence of the cycling conditions on voltage decay*
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P105	Li-Layered	Strafela Marc	*Microstructural and electrochemical comparison of as deposited and heat treated Li-Ni-Mn-Co-O thin film cathodes for Lithium-ion batteries*

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P132	Li Organic	Sottmann Jonas	*In operando studies of the Prussian Blue Analogue $Na_{1.35}Mn[Fe(CN)_6]0.83\text{-}zH_2O$ as promising cathode material for sodium ion batteries*
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