

Sunday, May 22

Arrival and presentation

18:00 Welcome Party

Monday, May 23

9:00 Opening

9:30 L1 J.H. Choy
Barcode DNA Core@Inorganic Shell for nano-forensics

10:15 K1 M. Nistor
Oxygen deficiency in oxide thin films: phase separation and nano-composite formation

10:45 Coffee break

11:00 O01 L. Kavan
Li-insertion in nanomaterials: A case for Ti(IV) oxides

11:20 O02 S. Kawasaki, Y. Ishii, T. Matsushita
In situ XRD measurements of TiO₂(B) phase during lithium ion insertion

11:40 O03 Y. Yuan, R.J. Liao, Y.X. Zhang, M. Dong
Preparation and characterization of polyimide/manganese dioxide nano composite films with low-dielectric-constant

12:00 O04 K. Kusakabe
Pair-hopping mechanism of superconductors activated by nano space of layered materials

12:20 O05 H.M. Moura, F. A. Bonk, H.O. Pastore
Gamma-aminopropyl-[Al]-magadiite: A functional nanocomposite

12:40 O06 T. Nakayama, E. Kaneshita
Emergence of glass-like vibrations in type-I clathrate

13:00 Lunch

14:00 K2 M. Pospíšil, P. Kovář
Molecular simulations of organic dyes in layered structures

14:30 O07 R. Guégan, M. Motélica-Heino, L. Leforestier, S. Cadars
Intercalation of nonionic surfactant into smectite clays

14:50 O08 J. Kristóf, E. Horváth, É. Makó, T. Yuzhakova, R. Kurdi, V. Khunová
Preparation, structure elucidation and delamination of kaolinite nano-complexes

15:10 O09 N. Khumchoo, N. Khaorapapong, M. Ogawa
Formation of zinc oxide-organomontmorillonite hybrids

15:30 O10 A. Lerf, F.E. Wagner, J. Poyato, J.-L. Pérez-Rodríguez
Intercalation and dynamics of hydrated Fe²⁺ in the vermiculites from Santa Olalla and Ojén

15:50 Coffee break

16:20 O11 Y. Nozue, Y. Amako, T. Mizukane, T. Nakano
Insulating state and metallic phase transition of heavily sodium-doped low-silica X (LSX) zeolites

16:40 O12 M. Igarashi, T. Nakano, A. Goto, K. Hashi, T. Shimizu, A. Hanazawa, Y. Nozue
NMR property of rubidium loaded sodalite

17:00 O13 R. Arita, Y. Nohara, K. Nakamura, T. Nakano, Y. Nozue
Correlated and relativistic s-electron systems in zeolite: A first-principles study

17:20 O14 W.J. Roth, P. Chlubná, L. Kurfiřtová, M. Kubů, J. Čejka
A concept of zeolite structure transformations from 2- to 3-dimensions and vice versa

17:40 O15 Y. Sakamoto
Structural investigation of tetrahedrally close-packed structure in silica mesoporous crystals

18:00 Dinner

19:00 Poster session 1 (P001-P090)

Tuesday, May 24

8:00 L2 T. Enoki
Nanographene-based host-guest systems

8:45 K3 Y. Matsuo
Intercalation chemistry of graphene oxide and related materials

9:15 O16 M. Kalbac, A. Reina-Cecco, H. Farhat, J. Kong, L. Kavan, M.S. Dresselhaus
The in situ Raman spectroelectrochemistry of CVD graphene

9:35 O17 K. Harigaya, H. Imamura
Interlayer hopping effects on energy bands and conductance quantization of bilayer graphene (boron-carbon-nitride) nanoribbons with zigzag edges

9:55 O18 M. Toyoda, H. Masuda, Y. Imamura, T. Wada, T. Kinumoto, T. Tsumura
Preparation of graphene-like thin films through electrochemical processing

10:15 O19 Q.-H. Yang, W. Lv
Graphene: Mass-production, controllable assemble and applications

10:35 Coffee break

11:00 O20 H. Rida, S. Cahen, G. Lamura, J.-F. Marêché, C. Hérold, P. Lagrange
Analogies and differences between G-Li-Ca and G-Li-Eu systems

11:20 O21 G. Mercier, E. Podryadova, C. Hérold, J.-F. Marêché, J. Gleize, J. Ghanbaja, B. Vigolo
Intercalation of alkali metals within single-walled carbon nanotubes bundles: A way to obtain hyperbranched nanostructures

11:40 O22 M. Heß, W. Märkle, P. Novák
Intercalation kinetics of lithium in graphite

12:00 O23 D. Matsui, Yu. Prylutsky, L. Matzuy, F. Le Normand, A. Derory
Magnetic and magnetotransport properties of graphite intercalated by Co and Fe

12:20 O24 O.N. Shornikova, M.A. Lutfullin, V.V. Avdeev
Expanded graphite doped with metal oxides: Preparation, properties and applications

12:40 O25 J.C.C. Freitas, H.D.A. Honorato, M.A. Schettino Jr, E. Nunes, A.G. Cunha, F.G. Emmerich
On the occurrence of inorganic elements in surface groups within nanoporous carbons

13:00 Lunch

14:00 O26 M. Taddei, A. Donnadio, M. Pica, R. Vivani, M. Casciola
Layered zirconium phosphonates as fillers for composite starch membranes

14:20 O27 Ch. Xu, F. Kang
Ideal energetic zinc ion chemistry: The rechargeable zinc ion battery

14:40 O28 F. Béguin, E. Raymundo-Pinero, S. Jouanneau, C. Paireau
PVA-based Si/C composites for Li-ion batteries

15:00 O29 E. Frackowiak, G. Lota, K. Fic, D. Waszak
Novel carbon-silicon composites as anode materials for Li-ion batteries

15:20 O30 F. Millange, N. Guillou, R.I. Walton
Metal-organic frameworks: Understanding of the breathing effect

15:40 Coffee break

- 16:00 O31 S. Yamanaka, M. Komatsu, K. Inumaru
High pressure synthesis and characterization of type II silicon clathrate compound with excess sodium content, $\text{Na}_x\text{Si}_{136}$ ($x > 24$)
- 16:20 O32 K. Tanigaki, J.-T. Xu, Y. Tanabe, M. Gang, S. Heguri
Endohedral intercalations of silicon and germanium clathrates and thermoelectric applications
- 16:40 O33 D. Cabaret, Ch. Bellin, G. Loupias, N. Emery, C. Héroid, J.-F. Marêché, P. Lagrange, F. Wilhelm, A. Rogalev
The nature of empty states
- 17:00 O34 T. Szabó, D. Jónás, T. Szabó-Plánka, I. Dékány, N.V. Nagy, A. Rockenbauer
Intercalation of copper(II) bipyridine complexes into graphite oxide
- 17:20 O35 J.-E. Park, E.D. Grayfer, S.-J. Kim
Synthesis and characterization of carbon nanostructured materials
- 17:40 O36 Ch. Bellin, M. Calandra, F. Mauri, G. Loupias, S. Rabij, N. Emery, C. Héroid, J.F. Marêché, P. Lagrange
Electronic density of CaC_6

18:00 Dinner

19:00 Poster session 2 (P091-P180)

20:00 Advisory board meeting

Wednesday, May 25

- 8:00 L3 U. Costantino
Modified hydrotalcites, a chemical kaleidoscope
- 8:45 K4 V. Pralong
Lithium intercalation into transition metal oxides: A route to generate new ordered rock salt type structure
- 9:15 O37 S. Si, A. Taubert, G. Rogez, P. Rabu
Peptide intercalated layered metal simple hydroxides: Effect of peptide chain length and side chain functionality
- 9:35 O38 E. Delahaye, S. Eyele-Mezui, M. Diop, R. Welter, M. Boero, C. Massobrio, P. Rabu, G. Rogez
From salicylaldehyde to chiral layered magnets: Functionalization of metal simple hydroxides with Schiff base complexes
- 9:55 O39 N. Zou, J. Plank
Intercalation of papain enzyme into hydrotalcite type layered double hydroxide
- 10:15 O40 K. Lang, E. Káfuňková, J. Demel, P. Kubát, J. Mosinger, F. Leroux, C. Taviot-Guého
Porphyryns intercalated in layered hydroxides

10:35 Coffee break

- 11:00 O41 L.J. Wang, Y.J. Feng, D.Q. Li
Highly selective IR absorption composites based on layered double hydroxides as additive for agriculture films
- 11:20 O42 A.M. Fogg, L.J. McIntyre, H.V. Goulding, S.E. Hulse
Synthesis of new layered and framework anion exchangeable hydroxides
- 11:40 O43 J.-Y. Uan, M.-Ch. Lin, F.-T. Chang
Rapid synthesis of Li-Al-carbonate layered double hydroxide in a metal salt-free system
- 12:00 O44 Q. Zhang, M.-Q. Zhao, J.-Q. Huang, D.S. Su, F. Wei
Guest-host mediated layered double hydroxides as extraordinary catalyst for 3D carbon nanotube fabrication
- 12:20 O45 K. Takai, T. Suzuki, H. Nishihara, T. Kyotani, T. Enoki
Magnetic properties of host-guest systems
- 12:40 O46 S. Heguri, Y. Tanabe, Q. Phan, G. Mu, J-T. Xu, Y. Murata, K. Komatsu, H. Sawa, K. Tanigaki
Structure and superconductivity of H₂ endohedral C₆₀

13:00 Lunch

14:00 Trip

19:00 Banquet

Thursday, May 26

- 8:40 L4 M. Wei, D.P. Yan, W.Y. Shi, J.B. Han, J. Ma, D.G. Evans, X. Duan
Assembly of photofunctional anions/layered double hydroxide ultrathin films: Experimental and theoretical investigations
- 9:25 K5 S.-J. Hwang
Two-dimensional metal oxide nanosheets and their intercalative nanohybrids: Promising materials for electrical energy storage and solar energy harvesting
- 9:55 O47 A. Sellam, M. D'Astuto, M. Calandra, F. Mauri, Y. Le Godec, G. Rousse, D. Taverna, G. Loupiaz, A. Shukla, E. Gilioli, A. Gauzzi
Intercalation in 1T-TaS₂ under pressure and stabilization of superconductivity
- 10:15 O48 Y. Moritomo
Rhombohedral distortion of prussian blue framework due to host-guest interaction

10:35 O49 A.N. Titov, A.E. Kar'kin, E.G. Shkvarina, O.V. Antonova, A.V. Tsurin, Yu.M. Yarmoshenko, A.A. Titov, A.I. Merentsov, L.N. Zelenina, T.P. Chusova, M.R. Sharafutdinov
Stability of homogeneous state of Fe_xTiX_2 , $X = Se, Te$, controlled by electronic structure

10:55 Coffee break

11:20 O50 A.S. Shkvarin, Yu.M. Yarmoshenko, M.V. Yablonskikh, N.A. Skorikov, A.I. Merentsov, A.N. Titov
 M_xTiSe_2 ($M = Cr, Mn, Cu$) electronic structure study by methods of resonant X-ray photoemission spectroscopy (RXPS) and X-ray absorption spectroscopy (XAS)

11:40 O51 K. Nagy, G. Bíró, D. Benczédi, L. Ouali, I. Dékány
Intercalation of lecithins for preparation of layered nanohybrid materials loaded with flavor and fragrance ingredients

12:00 O52 T. Kambe, Y. Kubozono, A. Fujiwara, T. Kato
Superconductivity in metal intercalated hydrocarbons

12:20 O53 M. Kobayashi, M. Setou, T. Satoh, S. Heguri
Synthesis and X-ray diffraction of strontium-doped hexagonal boron nitrides

12:40 O54 M. Hagiwara, M. Ikeda, K. Yanagi, K. Matsuda, Y. Maniwa
High-field magnetization of oxygen molecules confined within a single-walled carbon nanotube

13:00 Closing

13:30 Lunch