



XVII ICC
ISTANBUL 2022
25 -29 JULY



ICC 2022 DETAILED PROGRAM

28 July 2022, Thursday

TS18 Layered double hydroxides

Convener: *Prevot, V., Tokudome, Y., Abellan, G.*

- 9:45** **PHY-1030-Preparation of Zn based layered double hydroxide using epoxide method for efficient photodegradation of Bisphenol A**
Marwa Bouebdellah, Marcello Brigante, Gilles Mailhot, Claude Forano, Vanessa Prevot
- 10:00** **PHY-1084-Preparation of anisotropic crystals of β -Ni(OH)₂ grown along stacking direction using Ni-diamine complexes**
Keisuke Muramatsu, Mina Jimba, Hiroaki Wada, Atsushi Shimojima, Kazuyuki Kuroda
- 10:15** **PHY-1102-Insight into the role of physico-chemical conditions on the phosphate-Layered Double Hydroxides controlled release properties**
Alexandra Jourdain, Kamilla Thingholm Bünning, Ulla Gro Nielsen, Vanessa Prévot, Claude Forano
- 10:30** **PHY-1104-Synthesis and characterization of a new monometallic layered double hydroxide based on Mn**
D. Cornu, R. Coustel, G. Renaudin, G. Rogez, P. Durand, A. Renard, C. Carteret, C. Ruby
- 10:45** **PHY-1117-Divalent Metal Release and Antibacterial Effects of Layered Double Hydroxides**
Jazia Awassa, Damien Cornu, Samantha Soulé, Cedric Carteret, Christian Ruby, Sofiane El-Kirat-Chatel

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- 11:15** **PHY-1153-Fabrication of Au@Zn-Al Layered Double Hydroxide-Based Non-Enzymatic Electrochemical Sensor for Lactate Sensing**
Mohamed Amine Djebbi, Saber Boubakri, Mohamed Braiek, Nicole Jaffrezic-Renault, Philippe Namour, Abdesslem Ben Haj Amara
- 11:30** **PHY-1160-Layered Double Hydroxides for electroanalysis**
- 11:45** **PHY -1009-Synthesis of layered double hydroxide/chitosan composites used for a reversible trapping of water pollutants**
- 12:00** **PHY -1027-LDH-containing materials derived from minerals: from technical aspects of synthesis to the application in As(V) removal**
Karolina Rybka, Jakub Matusik, Michal Slaný
- 12:15** **PHY-1163-Layered Double Hydroxides for energy applications**



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- 13:00 VRT-1049-Layered Double Hydroxide Gels: Contrast Agents for X-Ray Computed Tomography Imaging of Vascular Structures**
Yasuaki Tokudome, Gowsihan Poologasundarampillai, Koki Tachibana, Hidenobu Murata, Atsushi Nakahira
- 13:15 NA-1078-Simple and cost-effective mass production of nitrate type MgAl layered double hydroxide: titration from concentrated solution**
Soontaree (Grace) Intasa-ard, Makoto Ogawa
- 13:30 PHY -1118-Allantoin-zinc layered simple hydroxide biohybrid as antimicrobial active phase in cellulosic bionanocomposites for wound healing**
Esther Marugan, Ediana P. Rebitski, Margarita Darder, Gustavo del Real, Pilar Aranda
- 13:45 VRT -1135-Structure and Ionic Conductivity for Layered Double Hydroxide Gel**
Noriyuki Sonoyama, Kohei Ogata, Genki Yamaguchi, Katsuhiro Yamamoto, Katsuhiro Yamamoto

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- 14:30 PHY -1137-meta-layered hydroxides: a new 2D material with anion exchange and tunable electronic properties**
Víctor Oestreicher, Diego Hunt, Alvaro Seijas-Da Silva, Gonzalo Abellán
- 14:45 PHY -1141-Introducing Fe-clustering as relevant factor in the design of layered double hydroxides for energy conversion**
Alvaro Seijas-Da Silva, Víctor Oestreicher, Eugenio Coronado, Gonzalo Abellán
- 15:00 PHY -1143-An in-situ study of the transformation of hybrid layered hydroxides into metallic nanocomposites with interest in energy storage systems**
Camilo Jaramillo, Víctor Oestreicher, Eugenio Coronado, Gonzalo Abellán
- 15:15 VRT-1197-Preparation of glass-bead filter disk coated by layered double hydroxide**
Shingo Machida, Ken-ichi Katsumata, Atsuo Yasumori
- 15:30 Tuning the electronic properties of α -Co based Layered Hydroxides as a tool for boosting energy application performance**
Youssra Diouane, Alvaro Seijas-Da Silva, Víctor Oestreicher, Gonzalo Abellán