



XVII ICC
ISTANBUL 2022
25-29 JULY



ICC 2022 DETAILED PROGRAM

25 July 2022, Monday

TS06 Clays and contaminant control

Convener: Yuan, P., Aranda, P., Lazzara, G., Thill, A., Liu, M., Pasbakhsh, P.

- 10:00** **PHY-1038-Mesoporous architecture magnetite nanoparticles loaded halloysite nanotubes biopolymer hydrogel beads for efficient removal of streptomycin**
Amal Kanti Deb, Mohammad Mahmudur Rahman, Bhabananda Biswas, Yunfei Xi, Ravi Naidu
- 10:15** **PHY-1044-Surfactant intercalated smectite group minerals: the effect of host mineral and surfactant type on the styrene adsorption/desorption**
Jakub Matusik, Anna Koteja-Kunecka, Paulina Maziarz, Anna Kunecka
- 10:30** **PHY-1095-Clay mineral-based composites for aqueous organic compounds removal**
Agnieszka Solińska, Tomasz Bajda
- 10:45** **PHY-1177-Steps towards sustainable treatment of micropollutants in water using microbially-mediated redox processes in clay minerals**
Maggie L White, Liewen Liu, James J N Kitson, Anke Neumann

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- 11:15** **PHY-1227-Cr(VI) reduction by low molecular weight organic acids enhanced by Mn (hydr)oxides**
Chaoyun Ying, Bruno Lanson, Caroline L. Peacock, Anja B. Frank, Bei Yuan, Xionghan Feng
- 11:30** **PHY-1251-The influence of pyrophosphate on As(III) oxidation by birnessite in the absence/presence of ferrous ion: (de)passivation effect and reaction mechanisms**
Chaoyun Ying, Xionghan Feng, Bruno Lanson, Xiaoming Wang, Wenfeng Tan and Fan Liu
- 11:45** **PHY-1331-The role of sulfide-reduced clay minerals and magnetite in the degradation of PCE and TCE**
James Entwistle, Drew E. Latta, Thomas C. Robinson, Michelle M. Scherer, Anke Neumann
- 12:00** **PHY-1372-Effects of stacking disordering in sodalite and cancrinite formed in carbonate-rich alkaline solutions on sodium-potassium exchange reaction**
Chiawei Lin, Youjun Deng, Julie A. Howe, Markus Graefe



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Convener: *Sarkar, B., Alessi, D.S.*

- 13:15 VRT -1036-Designer Ag@clay nanocomposites for ultrasensitive urfaceenhanced Raman scattering detection**
Chun Hui Zhou, Chao Peng Fu
- 13:30 PHY -1037-Preparation and characterisation of Iron-based Bentonite- Chitosan composites for Arsenic (III) adsorption**
Hassan Majiyya, Francis Clegg, Chris Sammon
- 13:45 PHY -1048-Superparamagnetic stevensite for easy removal of tetracycline in open aqueous media**
Andrea Sánchez-Monedero, Ana I. Ruiz, Pilar Aranda
- 14:00 VRT -1337-Clay minerals for the remediation of per- and polyfluoroalkyl substances in the environment**
Binoy Sarkar, Raj Mukhopadhyay

26 July 2022, Tuesday

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Convener: *Sarkar, B., Alessi, D.S.*

- 11:15 NA-1371-Sorption of sulfamethoxazole and diclofenac from aqueous solution on an organobentonite modified with hexadecyltrimethylammonium bromide**
Uziel Ortiz-Ramos, Roberto Leyva-Ramos, Esmeralda Mendoza-Mendoza
- 11:30 NA-1399-Enhanced copper sorption property of gamma irradiated pristine and chemically modified Philippine natural zeolite**
Eleanor Olegario, Mon Bryan Gili
- 11:45 VRT-1255-Influence of minerals on the fate of halogenated contaminants – investigation of hydrophobic organic chemical (HOC)–clay mineral Interactions**
Böhm Leonard, Grančič Peter, Tunega Daniel, Gerzabek Martin H
- 12:00 VRT-1280-Understanding Zn(⁶⁵Zn) Sorption on Palygorskite at the molecular scale: A coupling XAFS and Zn stable isotope approach**
Xinxin Mo, Yoshio Takahashi, Matthew G. Siebecke, Wenxian Gou, Zhao Wang, Wei Li