



4th Conference on
Nuclear
Analytical
Techniques
(NAT2020)

November 12-13, 2020
Interciti Hotel, Yuseong-gu
Daejeon, Republic of Korea

Jointed with
6th Symposium on
Radiation
in
Medicine,
Space,
and **P**ower
(RMSP-VI)

In association with
Korean Committee of
Activation Analysis

Session M. RI/In-beam Mössbauer Spectroscopy and Applications

Oral (Thursday)

- [MO-1.](#) Ultra-fast spin dynamics of nanoparticles for bio-applications
Sang-Koog Kim, Seoul National University
- [MO-2.](#) Analyses of Archeological Heritages, Celadon and Dancheong, using Mössbauer Spectroscopy
Chul Sung Kim*, Kookmin University
- [MO-3.](#) Magnetic and Chemical Characterization of Black Pottery from Hanseong Baekje Archaeological Site, South Korea
Dong Hyeok Moon, Myeong Seong Lee*, Hyen Goo Cho, Young Rang Uhm*, National Research Institute of Cultural Heritage

Poster

- [MP-1.](#) Study of the ^{57}Fe hyperfine parameters in medicament containing ferrous fumarate
Young Rang Uhm*, Gwang Min Sun, Jaegi Lee, Chul Sung Kim, Sung Baek Kim, Korea Atomic Energy Research Institute
- [MP-2.](#) Neutron Diffraction and Mössbauer studies on $\text{Ca}_2\text{FeMoO}_6$
Sung Baek Kim*, Chul Sung Kim, Konyang University
- [MP-3.](#) Study on hyperthermia effect of $\text{Co}_{1-x}\text{Mn}_x\text{Fe}_2\text{O}_4$ nanoparticles using Mössbauer spectroscopy
Sanghee Jung, Hyunkyung Choi, Min Sun Kim, Chul Sung Kim*, Kookmin University
- [MP-4.](#) Investigation on the magnetic and Mössbauer spectroscopy of ^{57}Fe doped LiMnPO_4
Hyunkyung Choi, Jae Yeon Seo, Chul Sung Kim*, Kookmin University
- [MP-5.](#) Mn doping on Mössbauer spectroscopy of maricite- NaFePO_4 as cathode material
Jae Yeon Seo, Hyunkyung Choi, Chul Sung Kim*, Kookmin University
- [MP-6.](#) A study of mineral phases in Hokkaido obsidian using Mössbauer Spectroscopy
Mi-Eun Jin, Yong-Joo Jwa*, Young Rang Uhm*, Gwang-Min Sun, Chul Sung Kim, Gyeongsan National University
- [MP-7.](#) Analytical study for raw materials of red pigment and manufacturing techniques in the Red Burnished Pottery
Min-Hye Lee, Min-Su Han*, Korea National University of Cultural Heritage
- [MP-8.](#) Mn-Zn ferrite nanoparticles for application in magnetic hyperthermia
Hyung Joon Kim*, Sung Wook Hyun, Hyunkyung Choi, LG Chem Research Park