

Program of Session M

Crystallization of Organic and Biological Materials

M1: August 6 (Wednesday), 9:00-10:30

Room: 308

Chair: Jie Liu

9:00-9:30

M01 (Invited)

Interface Engineering between Porous Silicon and Magnetron-Deposited Metal-Oxides:
Impact on Gas Sensor Performance

Bakyt Khaniyev¹, Tolagay Duisebayev^{1,2}, Yerbolat Tezekbay^{1,2}, Margulan Ibraimov¹
Al-Farabi Kazakh National University, Almaty, KAZAKHSTAN
Nazarbayev University, Astana, KAZAKHSTAN

9:30-9:45

M02 (Oral)

Protein Crystal as Drug Carrier

Yuxin Tang, Lin Paing Ye, Yizhao Gao, Qiuhua Qin, Somok Sur, Wenqian Chen,
National University of Singapore. SINGAPORE

9:45-10:00

M03 (Oral)

Elucidating the in vivo Mechanism of Calcium Phosphate Crystal Formation in the Early
Stage of Kidney Stone Formation

Tadashi Ninomiya, Yutaro Tanaka, Kazuma Sato, Erika Yamashita, Hozumi Takahashi,
Kazufumi Takano, Takahisa Matsuzaki, Shuzo Hamamoto, Atsushi Okada, Takahiro Yasui,
Hiroshi Yoshikawa, Masashi Yoshimura, Yusuke Mori, Masaru Ishii, Mihoko Maruyama,
Graduate School of Engineering, The University of Osaka, JAPAN

10:00-10:15

M04 (Oral)

Prediction of Urolithiasis Recurrence Based on Urinary Crystallization Tendencies

Ichiro Tsujino, Yutaro Tanaka, Kazufumi Takano, Hozumi Takahashi, Atsushi
Okada, Takahiro Yasui, Masashi Yoshimura, Yusuke Mori, Mihoko Maruyama,
Graduate School of Engineering, The University of Osaka, JAPAN

10:15-10:30

M05 (Oral)

Evaluate the pH dependence of calcium phosphate crystal phase transformation for
elucidating the process of kidney stone formation

Hiroto Takahashi, Yutaro Tanaka, Masashi Yoshimura, Hozumi Takahashi, Hiroshi
Yoshikawa, Kazufumi Takano, Yuki Sugiura, Rie Tajiri, Shuzo Hamamoto, Atsushi Okada,
Takahiro Yasui, Yusuke Mori, Mihoko Maruyama, Graduate School of Engineering, The
University of Osaka, JAPAN

M2: August 6 (Wednesday), 11:00-12:15

Room: 308

Chair: Wenqian Chen

11:00 – 11:15	M06(Oral) Selective Crystallization of ROY Polymorphs Using Directional Crystallization Jie Liu, University of Warwick, UNITED KINGDOM
11:15 – 11:30	M07 (Oral) Component analysis of kidney stones for elucidation of the function of proteins in the growth process of the stones Honami Usui, Yutaro Tanaka, Masashi Yoshimura, Hozumi Takahashi, Rie Tajiri, Hiroshi Yoshikawa, Kazufumi Takano, Shuzo Hamamoto, Atsushi Okada, Takahiro Yasui, Yusuke Mori, Mihoko Maruyama, Graduate School of Engineering, The University of Osaka, JAPAN
11:30 – 11:45	M08 (Oral) Self-template Evolution toward Hierarchically Hollow Spherulites of Energetic Materials for Safety Control and Combustion Enhancement Min Li, Dandan Han, Tianjin University, CHINA
11:45 – 12:00	M09(Oral) Solution-mediated-transformation kinetics of norsethite at atmospheric pressure Harutoshi Asakawa, Yamaguchi University, JAPAN
12:00 – 12:15	M10(Oral) Crystallization of norsethite under hydrothermal conditions revealed by the in-situ observation method Harutoshi Asakawa, Yamaguchi University, JAPAN