

# Supergreen 2022

The 12th International Conference on Supercritical Fluids

October 24-29, 2022, Taipei  
Gis Taipei Tech. Convention Center

**TSCFA** 台灣超臨界流體協會  
Taiwan Supercritical Fluid Association

## Supergreen 2022 The 12th International Conference on Supercritical Fluids 暨第 21 屆超臨流體技術應用與發展研討會 優良論文得獎名單

### ◆ Best Oral Presentation Award

#### Paper #

- OP-3-2 Synthesis of ZnO nanoparticles in sub- and supercritical water using a dual-stage flow reactor**  
Makoto Akizuki<sup>\*</sup>, Yongxu Wang, Yoshito Oshima  
(The University of Tokyo)
- OP-4-1 Supercritical carbon dioxide functionalization of polyethylene terephthalate (PET) for flexible biosensors**  
Po-Wei Cheng<sup>\*</sup>, Tomoyuki Kurioka, Chun-Yi Chen, Masato Sone, Tso-Fu Mark Chang  
(Tokyo Institute of Technology)
- OP-1-2 Cocystal screening of anticancer drug p-toluenesulfonamide and preparation by supercritical antisolvent process**  
Chun-Jui Chien, Yu Tse Yen, Salal Hasan Khudaida, Chie Shaan Su<sup>\*</sup>  
(National Taipei University of Technology)
- OP-1-3 Excess molar enthalpies of the binary system carbon dioxide + ethyl lactate at 298.15 and 303.15 K and 5.0 – 7.0 MPa**  
Hiroyuki Matsuda<sup>\*</sup>, Tomoya Fukui, Kaito Kashioka, Yoshikatsu Furukawa, Kazuyuki Takizawa, Tatsuki Fujita, Kiyofumi Kurihara, Katsumi Tochigi  
(Nihon University)
- OP-2-3 Supercritical carbon dioxide decellularized cartilage graft efficacy on post-traumatic osteoarthritis model**  
Periasamy Srinivasan, Lien-Chen Wu, Chang-Jung Chiang, Dur-Zong Hsu, Yun-Ju Chen, Ming-Yao Chang, Dar-Jen Hsieh<sup>\*</sup>  
(ACRO Biomedical Co., Ltd)

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## ◆ Best Poster Presentation Award

### Paper#

**PP-08 Instant formulation of inhaled beclomethasone dipropionate-hydroxypropyl-beta-cyclodextrin composite particles produced using supercritical assisted atomization**

Hsien-Tsung Wu\*, Yao-Hsiang Chuang, Tzu-Chieh Hu, Yu-Xuan Huang  
(Ming Chi University of Technology)

**PP-17 Improvement of thermal conductivity of hybrid materials by organically surface modification of h-BN filler**

Haruka Onuma, Takaaki Tomai, Akira Yoko, Gimyeong Seong, Tadafumi Adschiri\*  
(Tohoku University)

**PP-20 One pot, simultaneous drying and micronization of ecamsule using supercritical CO<sub>2</sub> as an Antisolvent**

Aye Aye Myint, Jaehoon Kim\*  
(Sungkyunkwan University)

**PP-03 Prediction of drug solubility in supercritical carbon dioxide by PC-SAFT EOS**

Chen-Chen Wu, Yi-Ru Chen, Chieh-Ming Hsieh\*  
(National Central University)

**PP-15 Synthesis of metal oxide nanoparticles by supercritical hydrothermal methods with flow-type reactors and control of lattice distortion by nanosizing**

Nobutaka Chiba, Akira Yoko, Gimyeong Seong, Takaaki Tomai, Tadafumi Adschiri\*  
(Tohoku University)

## ◆ Special Award: The Hottest Paper Award

### Paper#

**OP-1-1 Investigation of the solvation effect on decarboxylation in supercritical water using computational methods**

Anna Legaspi, Makoto Akizuki, Yoshito Oshima\*  
(The University of Tokyo)

**PP-21 Study on the optimization of subcritical water liquefaction of vinegar residues and acetic acid fermentation conditions for new vinegar products**

Daigo Murakami, Shoji Hirayama, Yuriko Hoshino, Kazuharu Yamato, Munehiro Hoshino, Mitsuru Sasaki\*  
(Kumamoto University)