

# **Journal of Smart Processing**

*Vol. 12 No. 3 2023 (May 2023)*

## CONTENTS

Be Smart! Analysis, Design and Fabrication Processes of Fuel Cells and Secondary Batteries

**S.P.S. Announcement** ..... N11

### **Preface**

Be Smart! Analysis, Design and Fabrication Processes of Fuel Cells and Secondary Batteries

Shohji TSUSHIMA.....97

### **Reviews**

Cell Structure Designed from the Viewpoints of Mass and Heat Transfer  
for Increasing Power Output

Yutaka TABE, Suguru UEMURA and Satoshi SAKAIDA.....99

Simulation and Digital Transformation for Secondary Battery and Fuel Cell

Gen INOUE..... 107

Design-Led Approach to Solid Oxide Fuel Cell Electrode Fabrication

Masashi KISHIMOTO and Hiroshi IWAI..... 115

Water Measurement Techniques for Elucidating Internal Phenomena of  
Polymer Electrolyte Fuel Cells

Kosuke NISHIDA..... 123

Fundamentals of Fabrication from Slurry and Its Applications to  
The Formation of Porous Electrodes

Takahiro SUZUKI and Shohji TSUSHIMA..... 131

**S.P.S. News** ..... N12