

Journal of Smart Processing

Vol. 10 No. 3 2021 (May 2021)

CONTENTS

マテリアルズインテグレーションが導く先端的構造材料・プロセス設計と応用

S.P.S.Announcement	N9
Preface	Katsuyoshi KONDOH..... 77
Reviews	
Data-Driven Approaches in Materials & Process Researches	Masahiko DEMURA..... 78
Computational Science and Data Science for Creating Digital Twin of Metal Powder Bed Fusion Additive Manufacturing	Yuchihiro KOIZUMI and Masayuki OKUGAWA..... 85
Optimization of Laser Processing Parameters for Powder Bed Fusion 3D Metal Printings	Asuka SUZUKI and Makoto KOBASHI..... 91
Materials Integration for Selective Laser Melting Process	
Makoto WATANABE, Sukeharu NOMOTO, Houichi KITANO, Masahiro KUSANO and Kaita ITO..... 99	
Topological Data Analysis of Domain Pattern Formation in Materials	
Yoh-ichi MOTOTAKE, Masaichiro MIZUMAKI, Kazue KUDO and Kenji FUKUMIZU..... 108	
General Thesis	
Investigation of Factors Influencing Buried Space Formation in Buried Arc Welding by Three-Dimensional Particle Simulation	
Hisaya KOMEN, Hayato BABA, Keiji KADOTA, Tetsuo ERA, Manabu TANAKA and Hidenori TERASAKI..... 121	