

Journal of Smart Processing
Vol. 8 No. 4 2019 (July 2019)

CONTENTS

Additive Manufacturing プロセスが切り開く革新的ハードマテリアルの開発 (2)

S.P.S. Announcement N10

Preface.....Hiroshi NISHIKAWA and Takayoshi NAKANO..... 113

Reviews

Applicability of Additive Manufacturing Process for Medical Devices
Takayuki INOUE..... 114

Crystallographic Texture Control of Beta-type Ti-alloys through Additive Manufacturing for
Suppression of Stress Shielding on Bone
Takuya ISHIMOTO..... 119

Structural Dimension Control in Smart Additive Manufacturing
Soshu KIRIHARA..... 124

Optimization of Additive Manufacturing Process Utilizing Computer Simulation
Yuichiro KOIZUMI..... 132

Characteristic Control of Selective Laser Melted Aluminum Alloys and Conceptual Design
with Topology Optimization
Takayuki NAKAMOTO, Takahiro KIMURA, Takao MIKI,
Ryota AKAI, Takahiro KITAGAWA and Hisashi MINAMI..... 139

Research Papers

Fabrication of Alumina Microlattice Structures by Using Ultraviolet Laser Lithography
Koki NONAKA and Soshu KIRIHARA..... 147

Crystallographic Texture Formation of Pure Tantalum by Selective Laser Melting Method
Jongyeong OH, Takuya ISHIMOTO, Shi-hai SUN and Takayoshi NAKANO..... 151

General Thesis

TEM Observation of Precipitates in Cast Al-7%Si-0.3%Mg Alloy Aged at 473 K
Taiki TSUCHIYA, Yuki MAKITA, Seungwon LEE,
Seiji SAIKAWA, Susumu IKENO, Kenji MATSUDA..... 155

S.P.S. News N16