

目 次

〈論文〉

オレイン酸修飾沈殿法を用いたセリアナノ結晶の水熱合成
..... 小林克敏・羽田政明・小澤正邦 1

強化磁器食器の衝撃試験におけるバックストップの影響
..... 林 亜希美・柘植英明・倉知一正・水野正敏・安達信泰・太田敏孝 7

〈総説〉

SiC-based Diesel Particulate Filter Developed by New Sintering Process
..... Seiji Hayama 15

〈解説〉

最尤推定に基づく新しい粉末構造解析法
..... 井田 隆 21

チュニジア共和国トズール県サハラウイ地区における無焼成レンガの製造法の指導と普及
..... 藤 正督・富田康資・山田伊久子・白井 孝・高井千加 27

Development of Eco-Friendly Techniques for Preparation of Porous Nano-/Micro-Size Hollow Silicate Particles
..... Raymond V.Rivera Virtudazo, Masayoshi Fuji, Chika Takai, Takashi Shirai 33

〈事業報告〉

セラ研学生国際化プログラム（II） 45

〈研究業績〉 59

〈センターニュース〉 85

Contents

〈Paper〉

Hydrothermal Synthesis of Ceria Nanocrystals with Oleate-modified Precipitation Technique
..... Katsutoshi Kobayashi, Masaaki Haneda, Masakuni Ozawa 1

Effect of Backstop for Strain and Deformation Behavior on Strengthened Porcelain Plate upon
Impact Test
..... Akemi Hayashi, Hideaki Tsuge, Kazumasa Kurachi,
Masatoshi Mizuno, Nobuyasu Adachi, and Toshitaka Ota 7

〈Review〉

SiC-based Diesel Particulate Filter Developed by New Sintering Process
..... Seiji Hayama 15

New Method for Structure Analysis from Powder Diffraction Data Based on Maximum-Likelihood
Estimation
..... Takashi Ida 21

Review of Instruction and Spread of Unfired Brick Manufacturing Method for Sahraoui Tozeur in
Tunisia
..... Masayoshi Fuji, Yasushi Tomita, Ikuko Yamada, Takashi Shirai, Chika Takai 27

Development of Eco-Friendly Techniques for Preparation of Porous Nano-/Micro-Size Hollow Silicate
Particles
..... Raymond V.Rivera Virtudazo, Masayoshi Fuji, Chika Takai, Takashi Shirai 33

〈Project〉

Globalization in CRL (II)45

〈Research Activity〉

.....59

〈CRL News〉

.....85