

目 次

〈解説〉

担持貴金属触媒上での CO 酸化反応における貴金属粒子径の影響	渡邊徳也・藤堂未那・羽田政明	1
Hydroxyapatite as Green Catalyst for Environmental Cleaning	Yunzi Xin, Takashi Shirai	6
Study on Facile Preparation of Composite Photocatalyst Based on Titanium Dioxide and Their Photocatalytic Hydrogen Evolution Performance	Xinxin Jiang, Masayoshi Fuji	16
デスクトップ型粉末回折装置と PDF-4/Organics データベースを利用した有機化合物の分析	井田 隆	25
3D プリンターを用いた精密鋳造用セラミックコアの開発	宮嶋圭太・川原彰広・渡辺裕和・本堂 剛・加藤真示	31
〈技術報告〉		
ビスマス鉄系強誘電-強磁性複合体の合成	安達信泰	36
〈研究業績〉		40
〈センターニュース〉		60

Contents

〈Review〉

Effect of Particle Size of Precious Metal on Catalytic Activity for CO Oxidation
..... Tokuya Watanabe, Mina Todo, Masaaki Haneda 1

Hydroxyapatite as Green Catalyst for Environmental Cleaning
..... Yunzi Xin, Takashi Shirai 6

Study on Facile Preparation of Composite Photocatalyst Based on Titanium Dioxide
and Their Photocatalytic Hydrogen Evolution Performance
..... Xinxin Jiang, Masayoshi Fuji 16

Analysis of Organic Compounds with PDF-4/Organics Database and a Desk-top Powder
Diffraction Instrument
..... Takashi Ida 25

Development of Ceramic Core Molds for Precision Castings Using 3D Printer
..... Keita Miyajima, Akihiro Kawahara, Hirokazu Watanabe, Tsuyoshi Hondo,
Shinji Kato 31

〈Technical Report〉

Synthesis of Bismuth Ferrite Ferroelectric and Ferromagnetic Composite Films
..... Nobuyasu Adachi 36

〈Research Activity〉 40

〈News〉 60