

Contents

Foreword

Oxygen Storage Materials in Automotive
Three-Way Catalysts
自動車用三元触媒中の酸素貯蔵材

Hirofumi Shinjoh

Special Issue : Oxygen Storage Materials for Automotive Catalysts - Ceria-Zirconia Solid Solutions -

Review

- 1 Development of Ceria-Zirconia Solid Solutions and Future Trends
セリア-ジルコニア固溶体の開発経緯と今後の展望 Hideo Sobukawa

Research Reports

- 6 Formation Mechanism of Ceria-Zirconia Solid Solution by Solid Phase Reaction
固相反応によるセリア-ジルコニア固溶体の生成機構 Akihiko Suda, Yoshio Ukyo
Hideo Sobukawa, Masahiro Sugiura
- 14 New Direct Evaluation of Oxygen Storage/Release Capacity on Millisecond Time Scale
ミリ秒での酸素吸蔵放出能の新評価法 Yoshiyuki Sakamoto, Yoshimi Kizaki
Tomoyoshi Motohiro
- 20 Structure Analysis of CeO_2 - ZrO_2 Mixed Oxides as Oxygen Storage Promoters in Automotive Catalysts
自動車触媒用酸素貯蔵材料 CeO_2 - ZrO_2 複合酸化物の構造解析 Yasutaka Nagai, Takamasa Nonaka
Akihiko Suda, Masahiro Sugiura
- 28 Alumina-Ceria-Zirconia Composite Oxide for Three-Way Catalyst
三元触媒用アルミナ-セリア-ジルコニア複合酸化物 Tadashi Suzuki, Akira Morikawa
Akihiko Suda, Hideo Sobukawa
Masahiro Sugiura, Takaaki Kanazawa
Juji Suzuki, Toshihiro Takada

Research Reports

- 34 Nano-Fabrication on the Surface of an Azopolymer Using the Optical Near-Field
近接場光によるナノ加工 Osamu Watanabe, Taiji Ikawa
Masaaki Tsuchimori, Hideki Takagi
- 45 Surface and Interface Analysis of Organic Electroluminescent Devices
有機EL素子の表面・界面の分析技術 Atsushi Murase, Takuya Mitsuoka
Noritake Isomura

Topics

- 53 Generation of Pure Airborne Negative Ion via Soft-Corona Discharge
ソフトコロナ放電方式による純粋なマイナスイオン発生器 Takayuki Kato

54 : Papers

79 : Awards