

目 次

論 文

フエノール樹脂の分別効率に及ぼす水素結合の影響	山岸忠明 中本義章	阿部 淳 石田真一郎	1 ~ 8
高分子量ノボラックの合成とキャラクタリゼーション	山岸忠明 一木直樹 石田真一郎 野本雅弘	伊藤慎悟 山下晶平 中本義章	9 ~ 12
Dynamic Constitutive Equation Considering Temperature Rise for Polyester Filament Yarns	T. Kinari S. Shintaku Y. Harashino	A. Hojo N. Iwaki	13 ~ 18
Luminescence of $\text{Ca}_2\text{B}_5\text{O}_9\text{Cl}$: Eu^{2+} Excited by UV-Light of X-Rays	S. Nakamura N. Takeuchi	K. Inabe	19 ~ 20
Interaction between a Dislocation and Monovalent Impurities in KCl Single Crystals	T. Ohgaku	N. Takeuchi	21 ~ 28
Non-exponential Electroluminescence Decay of ZnS: Mn Films Prepared by Electron Beam Evaporation	M. Adachi S. Taniguchi S. Sakai	T. Watanabe N. Takeuchi H. Murakami	29 ~ 33
Fracture Toughness for Steel Fiber-Cement Paste Interfacial Zone	M. Kawamura	S. Igarashi	34 ~ 46
ガラス繊維補強コンクリートの微視的構造と耐久性	五十嵐心一	川村満紀	47 ~ 56
マンガンポルフィリン触媒を用いたシクロヘキセンのエポキシ化反応におけるベンジルビオロゲンの添加効果	鈴木良弘 松井修一	高橋光信 小林照寿	57 ~ 62
The Fluorescence Preparation of (2-Nitro-5, 10, 15, 20-tetraphenylporphyrinato)zincU	K. Takahashi T. Komura O. Ohno	S. Hase H. Imanaga	63 ~ 69
Pattern Abrasion Mechanism of Rubber	Y. Uchiyama	Y. Ishino	70 ~ 84
Friction and Wear of Short Fiber Reinforced Rubber	Y. Uchiyama N. Wada	M. Hosokawa M. Ogino	85 ~ 95

高分子材料のアブレシブ磨耗（第1報）—四 ふっ化エチレン樹脂およびメタクリル樹脂の アブレシブ磨耗に及ぼす摩擦速度と温度の影 響	上治 豊 竹内真実	内山吉隆	96 ~ 103
高分子材料のアブレシブ磨耗（第2報）—ポ リアセタール樹脂のアブレシブ磨耗に及ぼす 摩擦速度と温度の影響	上治 豊 竹内真実	内山吉隆	104 ~ 110
Relation between Defect Density and Conductivity Changes with Light-Soaking and Annealing in a-Si:H	T. Shimizu T. Okagawa M. Kumeda	M. Iwami A. Morimoto	111 ~ 116
Novel Oxidation Process of Hydrogenated Amorphous Silicon Utilizing Nitrous Oxide Plasma	A. Masuda M. Kumeda Y. Yonezawa	A. Morimoto T. Shimizu T. Minamikawa	117 ~ 119
Preparation of Pb(Zr, Ti)O ₃ Films on Si Substrate by Laser Ablation	H. Kidho H. Yashima T. Shimizu	T. Okagawa A. Morimoto	120 ~ 122
Origin of Surface Defects in a-Si:H Films	H. Yan M. Kumeda Y. Yonezawa	A. Morimoto T. Shimizu	123 ~ 128
Ab Initio Calculations for Defects in Silicon- Based Amorphous Semiconductors	N. Ishii	T. Shimizu	129 ~ 134
Crystal Growth Modified by Pulsed Laser Irradiation on Growing Surface in Ba-Y-Cu- O Film Preparation by Laser Ablation	A. Morimoto T. Shimizu Y. Yonezawa S. Otsubo	S. Mizukami T. Minamikawa K. Segawa	135 ~ 140
Ferroelectricity of Lead-Zirconate- Titanate Thin Films Prepared by Laser Ablation	T. Okagawa H. Yashima T. Shimizu	H. Kidho A. Morimoto	141 ~ 146
High Speed Crystallization of a-Si by Lateral Sweep Annealing in Steep Temperature Gradient	A. Kitagawa S. Futagi K. Tubota M. Suzuki	M. Takeuchi S. Kanai Y. Kizu	147 ~ 150
Spectral Responses of GaAs Photodiodes Fabricated by Rapid Thermal Diffusion	A. Usami T. Wada Y. Tokuda	A. Kitagawa M. Suzuki H. Kan	151 ~ 152
Semiconductor Optical Modulator by Using Electron Depleting Absorption Control	M. Yamada Y. Kuwamura K. Imai	K. Noda H. Nakanishi	153 ~ 159

A Panel-Type Semiconductor Optical
Modulator by Using Electron Depleting
Absorption Control

Y. Kuwamura
T. Suzumi

M. Yamada

160 ~ 162