

Special Issue

The Landscape and Applications of Piezoelectric Technology: From Lead-Free Materials to Practical Applications

Review

Lead-Free Piezoelectric Materials and Its Prospects

Hyunwook NAM and Hajime NAGATA 1037

Lecture

Lead-Free Piezoelectric Ceramic-Based Airborne Ultrasonic Transducer

Ryuichi ARAKAWA, Takashi KASASHIMA and Asuka TSUJII 1041

Development of Piezoelectric Elements for Marine Use Toshikazu SHIRASAKA 1045

Completely Lead-Free LiNbO_3 -Based Piezoelectric Material for Ultrasonic Measurements at Temperatures Exceeding 700°C Makiko KOBAYASHI 1049

Ultrasonic Plastic Welding Technology Atsuki SEKI and Toru TAKAHASHI 1053

Fabrication and Fundamental Properties of Bismuth-Based Lead-Free Piezoelectric Ceramics for Actuator Applications Manabu HAGIWARA and Yoshitaka EHARA 1058

My Experience in Precision Engineering Toshiro DOI 1069

Gravure & Interview FUJI CERAMICS CORPORATION 1033 Hirofumi TAKAHASHI/Naoki FUKASAWA/Hokuto WATANABE Interview: Daisuke YAMAGUCHI

Introduction to Precision Engineering Introduction to Life Cycle Engineering/Shinichi FUKUSHIGE 1062

Introduction of Laboratories Precision Engineering Laboratory, Department of Mechanical Engineering, Faculty of Engineering, Gifu University, Tokai Higher Education and Research System 1067

- JSPE Affiliate News 1070
- From the Lecture Committee 告 11-1
- Editor's Note 告 11-8

Paper

- Motion-Based Targetless Camera-Vehicle Calibration in the Construction Sites ————— 1074
Shoji SONOYAMA, Kazuki OZEKI and Yoshimitsu AOKI

※The journal papers listed above are published on J-STAGE (Japan Science and Technology Information Aggregator, Electronic).
<https://www.jstage.jst.go.jp/browse/jjspe/-char/en/>