

Room 7

Session 2-7-1: OS06 Advanced grinding technologies I

OS06-01 Crystallographic Analyzations of Subsurface Damaged Layers in Wide-bandgap Semiconductor Wafers Using High-Resolution Micro-Raman Tomographic Imaging
Teppei Onuki, Kyo-ichiro Shiba, Yusuke Mogaki, Libo Zhou, Hiroataka Ojima and Jun Shimizu

OS06-02 Physics informed generative neural network of multireflection interference fringes for optical thickness gauge
Teppei Onuki, Takeshi Mochizuki, Yuta Toshima, Hiroataka Ojima, Jun Shimizu and Libo Zhou

OS06-03 Wear State Identification of Ordered Grinding Wheel for C/SiC Composites Based on DBO-ELM
Bing Chen and Ye Guo

OS06-05 Creep Feed Grinding Characteristics of Maraging Steel Using Porous Vitrified cBN Wheel
Masakazu Fujimoto and Haruya Tanaka

Session 2-7-2: OS06 Advanced grinding technologies II

OS06-06 Investigation of the Wheel Vibration and Surface Integrity by In-situ Magnetic Field Assisted Parallel Ultra-Precision Grinding of Inconel 718
Te Zhao, Tengfei Yin, Yi Tan, Denghui Li and Suet To

OS06-07 Experimental investigation of the impact of machining conditions on AE signal in grinding process
Zongwei Ren and Hayato Yoshioka

OS06-09 Exploration of grinding heat diffusion pattern within Ti-6Al-4V workpieces
Yujun Wu and Weimin Lin

OS06-10 Study of surface integrity on high-speed grinding of iron metal
Juan Chen, Bi Zhang and Suet To

Session 2-7-3: OS06 Advanced grinding technologies III

OS06-14 Development of abrasive grain detection system by machine learning
Kunon Hayashi, Atsuhiko Sawada, Hiroataka Ojima, Libo Zhou and Teppei Onuki

OS06-13 Possibilities of Reduction in Sliding Friction by Addition of Ultra Fine Bubbles to Coolant
Koju Hiraki, Ryuta Isizumi, Renma Sumiyoshi, Takeshi Watanabe, Yuki Hara, Nobuyuki Izuhara, shigeru Taniguchi, Shoko Yamada and Ryoichi Yagami

OS06-16 Evaluation on fine cutting edges of PCD grinding tool and mirror finishing surface on SiC substrates
Haruto Konishi, Takashi Fujita, Ryota Fukunaga, Yuki Izutani, Yasuo Izumi and Junji Watanabe

OS06-12 Deformation and Material Removal Mechanisms in Nano-Scratching of Single-Crystal Aluminum Nitride
Haoxiang Wang, xiaoguang Guo, Zhigang Dong, Renke Kang and Shang Gao

OS06-21 Fretting wear mechanism of DZ125 surface created by WEDM
Haohan Zhang, Jing Ni and Zhen Zhang