



Special Contribution	Preface to Special Issue on High Power Blue Diode Lasers for Advanced Materials Processing	1
	TSUKAMOTO Masahiro	
Special Features	High Power Blue Diode Lasers for Advanced Materials Processing	
	Light Source of GaN based Laser Diode	3
	MASUI Shingo, OKAHISA Eiichiro, YANAMOTO Tomoya and NAGAHAMA Shin-ichi	
	High Brightness Power Blue Laser	7
	TOJO Koji, MASUNO Shinichiro, HIGASHINO Ritsuko and TSUKAMOTO Masahiro	
	Visible High Power Fiber Coupled Diode Lasers	13
	BERND Köhler, SIMON Drovs, MICHAEL Stoiber, SASCHA Dürsch, HEIKO Kissel, TOBIAS Könnig, JENS Biesenbach, HARALD König, ALFRED Lell, BERNHARD Stojetz, ANDREAS Löffler, UWE Strauß, IMAEDA Shigeki, YAMAZAKI Tatsuzo	
	Blue Wavelength From A Diode Laser —New Horizon for Advanced Laser Processing—	18
	RÜTERING Markus and BRITTEN Simon	
Dissertation Digest	Improvement of Thermal and Mechanical Properties of Selective Laser Melted Aluminum Alloys by Microstructural Control	22
	KIMURA Takahiro	
International Conference Reports	Report on SLPC 2018	32
	SATO Yuji	
	Report on LPM 2018	34
	SATO Yuji	
Topics of New Technologies	Development of Ceramic Composite Particles for Direct Laser Sintering	37
	YOKOI Atsushi, TAN Wai Kian, MUTO Hiroyuki	
	Development of Novel Optical Manipulation with Semiconductor Nanostructures —Nanostructured Semiconductor-Assisted Optical Tweezers—	41
	SHOJI Tatsuya and TSUBOI Yasuyuki	
	Successful Laser Sintering of Aluminum Oxide —Key Technology for Additive Manufacturing of Ceramics—	44
	KIMURA Teiichi and SUEHIRO Satoshi	
	Microfluidic Mixing by using a Water Vapor Microbubble —Application of Localized Heat Generation of Gold Nanoisland Film Under Laser Irradiation—	47
	NAMURA Kyoko and SUZUKI Motofumi	
	Introduction of 2017 Best Author Awards and Judge's Comments in "Journal of Japan Laser Processing Society"	Next page
	Laser Topics	50
	Laser Calendar	54
	News from the Office	57
	Infomation	58