

# PHOTONICS Research

Volume 6  
Number 10  
October 2018

Introduction to two-dimensional layered materials for ultrafast lasers	<i>Han Zhang, Qiaoliang Bao, and Zhipei Sun</i>	TDL1
Graphene-decorated microfiber knot as a broadband resonator for ultrahigh-repetition-rate pulse fiber lasers	<i>Meng Liu, Rui Tang, Ai-Ping Luo, Wen-Cheng Xu, and Zhi-Chao Luo</i>	C1
Saturated absorption of different layered Bi <sub>2</sub> Se <sub>3</sub> films in the resonance zone	<i>Jun Zhang, Tian Jiang, Tong Zhou, Hao Ouyang, Chenxi Zhang, Zheng Xin, Zhenyu Wang, and Xiang'ai Cheng</i>	C8
Nonlinear optical properties of WSe <sub>2</sub> and MoSe <sub>2</sub> films and their applications in passively Q-switched erbium doped fiber lasers	<i>Wenjun Liu, Mengli Liu, Hainian Han, Shaobo Fang, Hao Teng, Ming Lei, and Zhiyi Wei</i>	C15
Thermo-optic all-optical devices based on two-dimensional materials	<i>Kan Wu, Yifang Wang, Ciyuan Qiu, and Jianping Chen</i>	C22
212-kHz-linewidth, transform-limited pulses from a single-frequency Q-switched fiber laser based on a few-layer Bi <sub>2</sub> Se <sub>3</sub> saturable absorber	<i>Weiwei Li, Jinhai Zou, Yizhong Huang, Kaijie Wang, Tuanjie Du, Shuisen Jiang, and Zhengqian Luo</i>	C29
Femtosecond mode-locking of a fiber laser using a CoSb <sub>3</sub> -skutterudite-based saturable absorber	<i>Jinho Lee, Yoontaek Kim, Kyungtaek Lee, and Ju Han Lee</i>	C36
TiS <sub>2</sub> -based saturable absorber for ultrafast fiber lasers	<i>X. Zhu, S. Chen, M. Zhang, L. Chen, Q. Wu, J. Zhao, Q. Jiang, Z. Zheng, and H. Zhang</i>	C44

(Contents continued)

Anomalous transport of light at the phase transition to localization: strong dependence with incident angle	<i>Ernesto Jimenez-Villar, M. C. S. Xavier, Niklaus U. Wetter, Valdeci Mestre, Weliton S. Martins, Gabriel F. Basso, V. A. Ermakov, F. C. Marques, and Gilberto F. de Sá</i>	929
Integration of nanoscale light emitters: an efficient ultraviolet and blue random lasing from NaYF <sub>4</sub> :Yb/Tm hexagonal nanocrystals	<i>Ya-Pei Peng, Wei Lu, Pengpeng Ren, Yiqun Ni, Yunfeng Wang, Long Zhang, Yu-Jia Zeng, Wenfei Zhang, and Shuangchen Ruan</i>	943
Soliton regulation in microcavities induced by fundamental–second-harmonic mode coupling	<i>Xiaoxiao Xue, Xiaoping Zheng, and Bingkun Zhou</i>	948
Broadband quasi-phase matching in a MgO:PPLN thin film	<i>Licheng Ge, Yuping Chen, Haowei Jiang, Guangzhen Li, Bing Zhu, Yi'an Liu, and Xianfeng Chen</i>	954
Nonlinear distortion and spatial dispersion of intense terahertz generation in lithium niobate via the tilted pulse front technique	<i>Baolong Zhang, Shangqing Li, Shusu Chai, Xiaojun Wu, Jinglong Ma, Liming Chen, and Yutong Li</i>	959
High-efficiency and broadband four-wave mixing in a silicon-graphene strip waveguide with a windowed silica top layer	<i>Yuxing Yang, Zhenzhen Xu, Xinhong Jiang, Yu He, Xuhan Guo, Yong Zhang, Ciyuan Qiu, and Yikai Su</i>	965
Passively Q-switched femtosecond-laser-written thulium waveguide laser based on evanescent field interaction with carbon nanotubes	<i>Esrom Kifle, Pavel Loiko, Javier Rodríguez Vázquez de Aldana, Carolina Romero, Airán Ródenas, Sun Yung Choi, Ji Eun Bae, Fabian Rotermund, Viktor Zakharov, Andrey Veniaminov, Magdalena Aguiló, Francesc Díaz, Uwe Griebner, Valentin Petrov, and Xavier Mateos</i>	971
Sequential trapping of single nanoparticles using a gold plasmonic nanohole array	<i>Xue Han, Viet Giang Truong, Prince Sunil Thomas, and Síle Nic Chormaic</i>	981

The color images are shown online.