Chinese Optics Letters

Volume 17 Number 10 October 2019 col.clp.ac.cn

Special Issue on Underwater Wireless Optical Communication

Editorial for Special Issue on Underwater Wireless Optical Communication	Jing Xu, Boon S.Ooi, and Gong-Ru Lin	100001
Hybrid LD and LED-based underwater optical communication: state-of-the-art, opportunities, challenges, and trends [Invited]	Xuan Huang, Fang Yang, and Jian Song	100002
Simulation and verification of pulsed laser beam propagation underwater using Markov chains [Invited]	Tianhua Zhou, Jian Ma, Tingting Lu, Guyu Hu, Tingwei Fan, Xiaopeng Zhu, Xiaolei Zhu, and Weibiao Chen	100003
50 Gb/s PAM4 underwater wireless optical communication systems across the water–air– water interface [Invited]	Chung-Yi Li, Hai-Han Lu, Yong-Cheng Huang, Qi-Ping Huang, Jing-Yan Xie, and Song-En Tsai	100004
Performance characterization of two-way multi-hop underwater networks in turbulent channels [Invited]	Fangyuan Xing, Hongxi Yin, and Lianyou Jing	100005
Robust UOWC systems against bubble-induced impairments via transmit/receive diversities [Invited]	Lian-Kuan Chen, Yingjie Shao, and Rui Deng	100006
Underwater wireless optical communication: why, what, and how? [Invited]	Jing Xu	100007
Effects of air bubbles on underwater optical wireless communication [Invited]	Daomin Chen, Jiemei Wang, Shangbin Li, and Zhengyuan Xu	100008
Recent achievements on underwater optical wireless communication [Invited]	Giulio Cossu	100009
Absorption and scattering effects of Maalox, chlorophyll, and sea salt on a micro-LED-based underwater wireless optical communication [Invited]	Pengfei Tian, Honglan Chen, Peiyao Wang, Xiaoyan Liu, Xinwei Chen, Gufan Zhou, Shuailong Zhang, Jie Lu, Pengjiang Qiu, Zeyuan Qian, Xiaolin Zhou, Zhilai Fang, Lirong Zheng, Ran Liu, and Xugao Cui	100010
Nonlinear adaptive filters for high-speed LED based underwater visible light communication [Invited]	Nan Chi and Fangchen Hu	100011

High-speed underwater wireless optical com- munications: from a perspective of advanced modulation formats [Invited]	Chao Fei, Xiaojian Hong, Ji Du, Guowu Zhang, Yuan Wang, Xiaoman Shen, Yuefeng Lu, Yang Guo, and Sailing He	100012
The effect of turbulence on NLOS under- water wireless optical communication channels [Invited]	Mohammed Sait, Xiaobin Sun, Omar Alkhazragi, Nasir Alfaraj, Meiwei Kong, Tien Khee Ng, and Boon S. Ooi	100013
Regular Papers		
Atomic and molecular physics		
Micro-fabrication and hermeticity measurement of alkali-atom vapor cells based on anodic bonding	Lu Zhang, Wendong Zhang, Shougang Zhang, and Shubin Yan	100201
Detectors		
Impulse response of Ge ₂ Sb ₂ Te ₅ -based ultrafast photodetector integrated with SOI waveguide	Vibhu Srivastava, Prateek Mishra, and Sunny	100401
Fiber optics and optical commun	nications	
A compact complex-coefficient microwave photonic filter with continuous tunability	Jinwang Qian, Zhennan Zheng, Mingzheng Lei, Chunqi Song, Shanguo Huang, and Xinlu Gao	100601
OFDM-based visible light communication with rotated polarity modulation aided complex color shift keying	Jianxun Xu, Ming Jiang, and Yufa Chen	100602
Analyzing OAM mode purity in optical fibers with CNN-based deep learning	Tianying Lin, Ang Liu, Xiaopei Zhang, He Li, Liping Wang, Hailong Han, Ze Chen, Xiaoping Liu, and Haibin Lü	100603
All-fiber few-mode erbium-doped fiber ampli- fier supporting six spatial modes	Zhenzhen Zhang, Cheng Guo, Liang Cui, Yichi Zhang, Cheng Du, and Xiaoying Li	100604
Lasers and laser optics		
Temperature dependence of spectral and laser properties of $\mathrm{Er}^{3+}/\mathrm{Al}^{3+}$ co-doped aluminosilicate fiber	Qiang He, Fan Wang, Zhiquan Lin, Chongyun Shao, Meng Wang, Shikai Wang, Chunlei Yu, and Lili Hu	101401
Dynamic image acquisition and particle recog- nition of laser-induced exit surface particle ejection in fused silica	Yangliang Li, Chao Shen, Li Shao, and Yujun Zhang	101402
Materials		
Effect of reduction co-sintering on the photo- luminescence properties of phosphor in glass in boro-bismuthate glass	Qiaoyu Zheng, Yang Li, Wenjuan Wu, Jun Zou, Bobo Yang, and Mingming Shi	101601

The color images are shown online.