

湖 泊 科 学
(Hupo Kexue)
2021 年 第 33 卷 第 3 期 5 月 6 日
目 次

专 稿

- 卫星遥感解译湖泊蓝藻水华的几个关键问题探讨 (647)
冯 炼

综 述

- 湖泊沉积物 DNA 在气候环境变化和生态系统响应研究中的应用 (653)
马 睿,陈建徽,刘建宝,袁艳丽,周爱锋,丁国强
杂食性鱼类对浅水水体底栖—浮游生境耦合作用的影响:微综述 (667)
梅雪英,Vladimir Razlutskij,Lars G. Rudstam,Erik Jeppesen,唐雅丽,张修峰,刘正文

研究论文

——富营养化与水华防控

- 南水北调中线干渠浮游植物群落时空格局及其决定因子 (675)
张春梅,朱宇轩,宋高飞,米武娟,毕永红,王树磊,梁建奎,尚鸣宇
基于多时相主被动遥感的漓江水面监测与水质参数反演(2016—2020 年) (687)
刘 曼,付波霖,何宏昌,解淑毓,仇继圣,孙习东,龚烨云,劳植楠,左萍萍
洪泽湖养殖网围拆除生态效应 (706)
段海昕,毛志刚,王国祥,谷孝鸿,曾庆飞,陈辉辉

——水环境保护与修复

- 2012—2018 年洪泽湖水质时空变化与原因分析 (715)
李 颖,张 祯,程建华,邹亮华,张庆吉,张 敏,龚志军,谢世友,蔡永久
北方半干旱区土地利用/覆盖变化对湖泊水质的影响:以岱海流域为例(2000—2018 年) (727)
梁 旭,刘华民,纪美辰,常 明,温 璐,于瑞宏,卓 义,王立新
黄河流域多时空尺度土地利用与水质的关系 (737)
郭羽羽,李思悦,刘 睿,张 静

- 两种氮浓度对轮叶黑藻(*Hydrilla verticillata*)腐解过程营养盐释放及附着生物膜内氮循环基因丰度的影响 (749)
刘 敏,张松贺,张丽莎,周甜甜,刘远思

——水生态与生物多样性保育

- 云南 4 个湖泊浮游生物碳、氮稳定同位素的季节变化及其影响因子 (761)
陈子栋,黄林培,陈 丽,梁 红,刘园园,陈小林,张 涛,陈光杰

贵州草海湿地不同生境周丛生物碳、氮、磷生态化学计量学	(774)
王天佑,夏品华,林陶,杜欣	
贵州高原花溪水库浮游植物优势种生态位及种间联结性动态分析	(785)
马一明,李秋华,潘少朴,旷攀,金爽	
——水文与水资源保护	
1990—2019年江苏片区入太湖水量变化及原因分析	(797)
胥瑞晨,逢勇,胡祉冰	
三峡水库蓄水运用以来长江中下游沙量平衡分析	(806)
许全喜,李思璇,袁晶,杨成刚	
三峡水库蓄水后下荆江河段典型洲滩调整机理	(819)
杨绪海,熊海滨,李义天,李思璇	
三峡工程蓄水后长江中游城陵矶—汉口河段过流能力变化及影响因素分析	(830)
姚记卓,夏军强,邓珊珊,周美蓉,许全喜	
鄱阳湖洪泛区蝶形湖湿地系统地表—地下水交互作用	(842)
陈静,李云良,周俊锋,卢静媛,韦丽,郭玉银	
岩溶湿地表层水体CO ₂ 分压时空分布特征及其扩散通量	(854)
杨诗笛,吴攀,曹星星,刘闪,廖家豪	
基于长短记忆模型的鄱阳湖流域径流模拟及其演变的归因分析	(866)
范宏翔,何蕊丹,徐力刚,张明睿,姜加虎	
基于Copula函数的连河通江湖泊防洪安全设计:以洪泽湖为例	(879)
罗贊,董增川,刘玉环,钟敦宇,管西柯,周强,陈霞,杨婕	
黄河中游小北干流段持续淤积期的主槽摆动特点	(893)
余铖峰,夏军强,周美蓉,邓珊珊,王英珍	
——流域与可持续发展	
长江下游升金湖湿地保护有效性评价(1989—2019年)	(905)
王维晴,周立志,陈薇,徐文彬,宋昀微	
2004年以来青海湖快速扩张对人居设施与草地的潜在影响	(922)
程俭,刘昌华,刘凯,武建双,范晨雨,薛滨,马荣华,宋春桥	
南方红壤区长期水土流失综合治理显著减少河流输沙——以鄱阳湖流域赣江上游平江为例	(935)
聂小飞,郑海金,涂安国,莫明浩,宋月君,谢颂华,王飞	
——湖泊沉积与全球变化	
雁荡山湖泊沉积物记录的中国东部季风区小冰期以来气候干湿变化	(947)
崔树昆,蒋诗威,刘孝艳,涂路遥,周鑫	

(本期责任编辑:杨柳;英文编辑:张科)

Journal of Lake Sciences

(ISSN 1003-5427)

Volume 33 Issue 3; May 6, 2021

Contents

Feature article

- Key issues in detecting lacustrine cyanobacterial bloom using satellite remote sensing 647
Feng Lian

Review

- Progress in the application of lake sediment DNA in climate and environmental change and ecosystem response 653
Ma Rui, Chen Jianhui, Liu Jianbao, Yuan Yanli, Zhou Aifeng & Ding Guoqiang
- Effects of omnivorous fish on benthic-pelagic habitats coupling in shallow aquatic ecosystems: A minireview 667
Mei Xueying, Vladimir Razlutskij, Lars G. Rudstam, Erik Jeppesen, Tang Yali, Zhang Xiufeng & Liu Zhengwen

Research papers

- Eutrophication, bloom prevention and control*
- Spatiotemporal pattern of phytoplankton community structure and its determining factors in the channel of the middle route of South-to-North Water Diversion Project 675
Zhang Chunmei, Zhu Yuxuan, Song Gaofei, Mi Wujuan, Bi Yonghong, Wang Shulei, Liang Jiankui & Shang Mingyu
- Water surface monitoring and water quality parameters inversion of Lijiang River based on multi-temporal active and passive remote sensing, 2016–2020 687
Liu Man, Fu Bolin, He Hongchang, Xie Shuyu, Oiu Jisheng, Sun Xidong, Gong Yeyun, Lao Zhinan & Zuo Pingping
- Ecological effects on enclosure culture demolition of Lake Hongze 706
Duan Haixin, Mao Zhigang, Wang Guoxiang, Gu Xiaohong, Zeng Qingfei & Chen Huihui
- Aquatic environment protection and remediation*
- Water quality change and driving forces of Lake Hongze from 2012 to 2018 715
Li Ying, Zhang Zhen, Cheng Jianhua, Zou Lianghua, Zhang Qingji, Zhang Min, Gong Zhijun, Xie Shiyou & Cai Yongjiu
- Effects of land use/cover change on lake water quality in the semi-arid region of northern China: A case study in Lake Daihai Basin (2000–2018) 727
Liang Xu, Liu Huamin, Ji Meichen, Chang Ming, Wen Lu, Yu Ruihong, Zhuo Yi & Wang Lixin
- Relationship between landscape pattern and water quality of the multi-scale effects in the Yellow River Basin 737
Guo Yuyu, Li Siyue, Liu Rui & Zhang Jing
- Impacts of two nitrogen concentrations on nutrients release and nitrogen cycle genes abundance in biofilm during *Hydrilla verticillata* decomposition 749
Liu Min, Zhang Songhe, Zhang Lisha, Zhou Tiantian & Liu Yuansi
- Freshwater ecology and biodiversity conservation*
- Seasonal variation and driving factors of carbon and nitrogen stable isotope values of plankton in four lakes of Yunnan Province 761
Chen Zidong, Huang Linpei, Chen Li, Liang Hong, Liu Yuanyuan, Chen Xiaolin, Zhang Tao & Chen Guangjie

Ecological stoichiometry of carbon, nitrogen, and phosphorus of periphyton in different habitats of Caohai Wetland, Guizhou Province	774
Wang Tianyou, Xia Pinhua, Lin Tao & Du Xin	
Dynamic analysis of niche and interspecific association of dominant phytoplankton species in Huaxi Reservoir of Guizhou Plateau	785
Ma Yiming, Li Qiuhua, Pan Shaopu, Kuang Pan & Jin Shuang	
—Hydrology and water resources protection	
Analysis on the water quantity changes from Jiangsu section entering Lake Taihu from 1990 to 2019	797
Xu Ruichen, Pang Yong & Hu Zhibing	
Analysis of equilibrium sediment transport in the middle and lower reaches of the Yangtze River after the impoundment of the Three Gorges Reservoir	806
Xu Quanxi, Li Sixuan, Yuan Jing & Yang Chenggang	
Adjustment mechanism of the typical sandbars in the lower Jingjiang River after the impoundment of the Three Gorges Reservoir	819
Yang Xuhai, Xiong Haibin, Li Yitian & Li Sixuan	
Variation in flood-discharge capacity of Chenglingji-Hankou reach in the middle Yangtze River and analysis of influencing factors since the onset of the Three Gorges Reservoir	830
Yao Jizhuo, Xia Junqiang, Deng Shanshan, Zhou Meirong & Xu Quanxi	
Assessing surface water-groundwater interactions in the seasonal lake-wetland system of Lake Poyang	842
Chen Jing, Li Yunliang, Zhou Junfeng, Lu Jingyuan, Wei Li & Guo Yuyin	
Spatiotemporal distribution of carbon dioxide partial pressure and its diffusion flux in surface water of Karst wetland	854
Yang Shidi, Wu Pan, Cao Xingxing, Liu Shan & Liao Jiahao	
Simulation and attribution analysis based on the long-short-term-memory network for detecting the dominant cause of runoff variation in the Lake Poyang Basin	866
Fan Hongxiang, He Handan, Xu Ligang, Zhang Mingrui & Jiang Jiahu	
Safety design for rivers-connected lake flood control based on Copula function: A case study of Lake Hongze	879
Luo Yun, Dong Zengchuan, Liu Yuhuan, Zhong Dunyu, Guan Xike, Zhou Qiang, Chen Xia & Yang Jie	
Characteristics of main-channel migration in the Xiaobeiganlu reach of the middle Yellow River during the continuous siltation period	893
Yu Chengzheng, Xia Junqiang, Zhou Meirong, Deng Shanshan & Wang Yingzhen	
—Watershed and sustainability	
Evaluation of conservation effectiveness of Lake Shengjin, lower reaches of the Yangtze River, 1989–2019	905
Wang Weiqing, Zhou Lizhi, Chen Wei, Xu Wenbin & Song Yunwei	
Potential impact of the dramatical expansion of Lake Qinghai on the habitat facilities and grassland since 2004	922
Cheng Jian, Liu Changhua, Liu Kai, Wu Jianshuang, Fan Chenyu, Xue Bin, Ma Ronghua & Song Chunqiao	
Long-term soil and water conservation in red soil region of southern China significantly reduced riverine sediment load: A case study of Pingjiang River in the upper reaches of Ganjiang River, Lake Poyang Basin	935
Nie Xiaofei, Zheng Haijin, Tu Anguo, Mo Minghao, Song Yuejun, Xie Songhua & Wang Fei	
—Lake sedimentation and global change	
Climate change in the monsoon region of eastern China since the Little Ice Age (LIA) recorded from Lacustrine sediments in Yandang Mountain	947
Cui Shukun, Jiang Shiwei, Liu Xiaoyan, Tu Luyao & Zhou Xin	