

湖泊科学 2020 年 第 32 卷 总目次

第 1 期

[专稿]浅水湖泊底栖—敞水生境耦合对富营养化的响应与稳态转换机理:对湖泊修复的启示·····	
····· 刘正文,张修峰,陈非洲,杜瑛珣,关保华,于谨磊,何 虎,张永东(1)	
2012—2018 年巢湖水质变化趋势分析和蓝藻防控建议·····	张 民,史小丽,阳 振,陈开宁(11)
太湖水体磷浓度与赋存量长期变化(2005—2018 年)及其对未来磷控制目标管理的启示·····	
····· 朱广伟,邹 伟,国超旋,秦伯强,张运林,许 海,朱梦圆(21)	
综合营养状态指数(TLI)在夏季长江中下游湖库评价中的局限及改进意见·····	
····· 邹 伟,朱广伟,蔡永久,许 海,朱梦圆,龚志军,张运林,秦伯强(36)	
2015—2016 年环太湖河道进出湖总磷负荷量计算及太湖总磷波动分析·····	
····· 翟淑华,周 姪,程媛华,蔡 杰,胡燕雯(48)	
基于梯度扩散薄膜技术(DGT)的氨基生物炭覆盖沉积物—水界面铜、铅释放研究·····	
····· 黄艳虹,高 凡,郭 伟,郭家选,王敬贤,许 佟(58)	
太湖流域池塘养殖污染排放估算及其空间分布特征·····	彭凌云,逯超普,李恒鹏,王良杰,颜晓元(70)
鄱阳湖流域上游铀尾矿库周边水体中铬形态及健康风险评估·····	
····· 易 玲,高 柏,丁小燕,马文洁,杜超超,樊 骅,李艳梅(79)	
顾及生态安全格局的流域生态保护红线划定及管控研究——以云南杞麓湖流域为例·····	
····· 余珮珩,冯明雪,刘 斌,白少云,顾世祥,陈奕云(89)	
贵州草海湿地不同水位梯度沉积物中汞、砷形态分布及风险评价·····	
····· 汤向宸,林 陶,夏品华,黄先飞,马 莉,杨 羽(100)	
流域场镇发展下三峡水库典型入库河流水体碳、氮、磷时空特征及富营养化评价·····	
····· 龚小杰,王晓锋,刘婷婷,袁兴中,孔维苇,刘 欢(111)	
生境过滤作用对长江下游菜子湖鱼类物种和功能组成的影响·····	古 辰,姜美彤,蒋忠冠(124)
微囊藻(FACHB-905)和鱼腥藻(FACHB-82)响应温度变化的功能特性权衡·····	
····· 管 乐,张 民,赵兴青(134)	
广东省千灯湖拟柱孢藻(<i>Cylindrospermopsis raciborskii</i>)的形态和产毒能力的株间差异及系统进化·····	
····· 路 琰,雷敏婷,叶金梅,雷腊梅,韩博平(144)	
基于 DNA 条形码技术的浮游动物休眠卵种类鉴定:以洞庭湖流域常德柳叶湖为例·····	
····· 于文波,王 庆,魏 南,梁迪文,杨宇峰,崔宗斌(154)	
贵州草海湿地不同水位梯度土壤碳、氮、磷含量及其生态化学计量比分布特征·····	
····· 杨 羽,夏品华,林 陶,严定波,宋 旭,马 莉,汤向宸(164)	
河—库连续体中溶解性无机碳及其同位素的时空分异特征——以澜沧江云南段为例·····	
····· 袁 博,吴 巍,郭梦京,周孝德,谢曙光(173)	
典型草原露天煤矿区地下水—湖泊系统演化·····	
····· 夏蔓宏,董少刚,刘白薇,李 银,李政葵,王 超,周雨泽(187)	
河流支流入汇口处水利工程防洪设计水位研究:以珠江流域西江桂平航运枢纽为例·····	
····· 甘富万,黄宇明,张华国,高 扬,覃丽娜,肖 良(198)	
1960—2012 年鄱阳湖流域旱涝急转事件时空演变特征·····	王 容,李相虎,薛晨阳,张 丹(207)
基于 Copula 函数的太湖流域汛期洪涝灾害危险性分析·····	
····· 罗 赞,董增川,管西柯,刘玉环,钟敦宇,袁嘉晨(223)	
台风影响下巢湖风浪特征研究·····	张怡辉,胡维平(236)
柴达木盆地西北缘昆特依凹陷的双层钾盐成矿模式特征及成因·····	
····· 刘溪溪,岳 鑫,于小亮,马 喆,路 亮,张晓冬,马宗德(246)	
柴达木盆地托素湖不同位置岩芯沉积物指标对比及其环境意义·····	
····· 丁宗艳,张家武,杨盼盼,周 姗,张玉枝(259)	

[微综述]湖泊微生物宏基因组学研究进展	罗建桦,陶 晔,邢 鹏,吴庆龙(271)
---------------------------	----------------------

第 2 期

[专稿]如何对濒危物种进行评估与拯救?	谢 平(281)
[综述]白洋淀生态需水:进展及展望	杨 薇,赵彦伟,刘 强,孙 涛(294)
[综述]持久性有机污染物在中国湖库水体中的污染现状及分布特征	陶玉强,赵睿涵(309)
特大洪水对浅水湖泊磷的影响:以 2016 年太湖为例	
..... 朱 伟,胡思远,冯甘雨,章元明,翟淑华,薛宗璞,赵 帅,陈怀民,王若辰(325)	
千岛湖(新安江水库)表层水中全氟化合物的残留水平及分布特征	
..... 张 明,唐访良,程新良,徐建芬,张 伟,俞雅雯,王立群(337)	
蓝藻水华衰亡对沉积物碳库有机碳组分的影响	
..... 汪 旋,李致春,李 翔,许晓光,张思远,王慧敏,厉荣强,王国祥(346)	
鄱阳湖流域饶河龙口入湖段优势淡水鱼类对微塑料及重金属污染物的生物累积	
..... 李文华,简敏菲,余厚平,阳文静,刘淑丽,倪才英,江玉梅(357)	
引水结构变化对天津于桥水库磷滞留的影响分析与生态水量估算	张 晨,宋迪迪,廉铁辉(370)
珠江下游浮游细菌群落结构的时空分布特征	
..... 杜宛璘,孙金辉,麦永湛,赖子尼,贾慧娟,葛大艳,王 超(380)	
土壤动物对鄱阳湖湿地冬季凋落物分解过程的影响	
..... 肖 玲,马燕天,甘志伟,蔡润发,李卓琳,葛 刚,吴 兰(395)	
钙离子添加对沉水植物菹草(<i>Potamogeton crispus</i> L.)和金鱼藻(<i>Ceratophyllum demersum</i> L.)富集水体磷的影响	陈 琦,王和云(406)
三峡建库后东洞庭湖适宜生态水位需求分析	黄宇云,余明辉,陆 晶,孙昭华,田浩永(417)
高邮湖、南四湖和东平湖有色可溶性有机物来源组成特征	
..... 张柳青,杨 艳,李元鹏,石 玉,周 蕾,周永强,张运林(428)	
草原型可溶性有机物降解过程中活性氧物种产生过程	刘 新,吴定桂,江和龙,宋 娜(440)
冻融期包头南海湖浮游植物群落及优势种生态特征	
..... 杨文煊,申 涵,周明利,王志超,李卫平,潘 彤(450)	
环境胁迫对水生植物根系分泌小分子量有机酸(LMWOAs)的影响特征	
..... 张治宏,杨诗卡,韩 超,许 笛,王兆德,柯 凡,申秋实(462)	
基于回声探测监测沉水植物盖度的插值方法研究:以杭州西湖沉水植物盖度监测为例	
..... 彭 雪,张 璐,黄素珍,蔺庆伟,刘碧云,张 义,吴振斌(472)	
新疆艾比湖流域枯、丰水期三维荧光光谱特性及其与水质的关系	
..... 王 迪,张 飞,张兆永,张海威,朱世丹,张贤龙(483)	
鄱阳湖湿地豆雁(<i>Anser fabalis</i>)越冬种群的春季迁徙路线及其活动特征	
..... 曹开强,李言阔,王 强,周学红,钟毅峰,缪沪君(496)	
长江下游刀鲚(<i>Coilia nasus</i>)仔稚鱼的时空分布	刘 熠,任 鹏,杨习文,李新丰,徐东坡,方弟安(506)
长江中下游流域刀鲚(<i>Coilia nasus</i>)生态表型的划分	姜 涛,刘洪波,轩中亚,陈修报,杨 健(518)
降雨动态系统响应曲线修正方法在黄土区域水沙模拟中的应用	
..... 包为民,顾雨薇,司 伟,侯 露,卢金利,落全富(528)	
洪水概率预报评价指标研究	蒋晓蕾,梁忠民,胡义明,王 军,李彬权(539)
太湖流域城市化对平原河网水系结构与连通性影响	魏莹莹,李一平,翁晟琳,徐芸蔚,朱 立(553)
三峡工程运用后坝下游河道泥沙输移变化规律	郭小虎,渠 庚,刘 亚,刘心愿(564)
1973—2018 年青海湖岸线动态变化	祁苗苗,姚晓军,刘时银,朱 钰,高永鹏,刘宝康(573)
太湖流域西泖摇蚊亚化石群落对湖泊生态系统稳态转换的响应	张楚明,倪振宇,唐红渠(587)
[读者来信]关于科技论文中规范使用“氨氮”等相关术语的探讨与建议	(596)

第3期

[专稿]全球变化下青藏高原湖泊在地表水循环中的作用	
..... 朱立平,彭 萍,张国庆,乔宝晋,刘 翀,杨瑞敏,王君波(597)	
三峡水库近坝段水面漂浮物对水质的影响	张馨月,高千红,闫金波,纪道斌,罗玉红(609)
基于熵值—环境基尼系数法的平原河网区污染物总量分配	
..... 程一鑫,李一平,朱晓琳,施媛媛,朱 雅,潘泓哲,徐芸蔚,程 月(619)	
太湖流域浙江片区出入境水量、水质及污染物通量	
..... 朱昕阳,蒋彩萍,马晓雁,周柯锦,贾 佳,全炳迁,江 蓝,许娟娟,王 鹏(629)	
洞庭湖支流枯水期表层水和沉积物中氯苯甲醚类化合物分布特征与生态风险	
..... 黄洁钰,任 敏,赵高峰,王晓燕(641)	
白洋淀表层沉积物中有机氯农药和全多氯联苯的分布特征及风险评估	
..... 许 妍,陈佳枫,徐 磊,刘雨薇,谢立莹,王之卓,金 苗,陈宇炜(654)	
洪泽湖入湖河流沉积物有机磷分布特征及外源输入对其形态转化的影响	
..... 韩 年,袁旭音,周慧华,朱 海,熊玉婷,陈耀祖(665)	
贵州红枫湖近 10 年来(2009—2018 年)水质变化及影响因素	
..... 曾华献,王敬富,李玉麟,陈敬安,金祖雪,贺康康,杨小红(676)	
东巢湖沉积物—水界面氮、磷、氧迁移特征及意义	李运奔,匡 帅,王臻宇,申秋实,王亚东,康得军(688)
云南程海和阳宗海季节性分层及其消退对冬季水华的潜在影响	
..... 周起超,杨 炫,王玮璐,董 静,黄立成,秦 江(701)	
喀斯特地区梯级水库建造对水化学分布的影响	
..... 王万发,钟 君,李 彩,易沅壁,陈赛男,陈 率,郎赞超,李思亮(713)	
西洞庭湖季节性淹水和植被类型对温室气体排放通量的影响	
..... 郭 佳,晁碧霄,张 颖,雷光春,王玉玉(726)	
环太湖地区河道和湖泊沿岸带水生植物多样性现状调查	
..... 谢洪民,李启升,刘帅领,张 又,黄晓龙,李宽意(735)	
洞庭湖洲滩土壤种子库对土壤水分变化的响应	陈明珠,靳 朝,雷光春,阳 俭,雷 霆(745)
不同生态处理方法对黑臭河道底泥细菌多样性与群落结构的影响	
..... 金宗安,刘泽君,唐雅丽,关保华,刘正文,任丽娟(754)	
典型城市湖泊五里湖底栖动物群落演变特征及其生态修复应用建议	
..... 薛庆举,汤祥明,冀志军,高 光,蔡永久(762)	
白洋淀浮游植物群落的时空变化及其与环境因子的关系	李 娜,周绪中,孙博闻,高学平,崔文彦(772)
中国淡水水华甲藻一新记录种及其生态风险	谭好臣,王媛媛,李书印,张 琪,刘国祥,刘本文(784)
抚仙湖浮游植物群落时空变化特征及其与环境因子的关系	
..... 刘晓曦,陈 丽,蒋伊能,尚 丽,张 涛,李 蕊,赵帅营,陈光杰(793)	
三峡水库和长江中下游通江湖泊(洞庭湖和鄱阳湖)草鱼、鲢的孵化日期及早期生长特征	
..... 张文武,马 琴,黎明政,张 晨,高 欣(804)	
近 30 年长江下游升金湖湿地不同季节景观生态风险时空分析	
..... 朱娟飞,陆雨婷,吴鹏海,马晓双,周立志(813)	
半湿润半干旱流域空间组合模型研究	刘玉环,李致家,刘志雨,黄鹏年(826)
荆江沙市段分流比计算公式的改进及应用	陈 立,陈 帆,张 为,袁 晶(840)
WRF-Hydro 模型与新安江模型在陈河流域的应用对比	
..... 孙明坤,李致家,刘志雨,侯爱中,霍文博,温娅惠,孔祥意,戴金旺,梁世强(850)	
基于长短时记忆神经网络的鄱阳湖水位预测	郭 燕,赖锡军(865)
基于同步观测信息利用的高寒湖泊湍流通量数据插补方法	靳 铮,张雪芹(877)
蓝藻不同类型胶被提取方法	刘冷昕,肖 艳,李 哲,吴兴华,张 宇(887)

第4期

[专稿]我们能拯救长江中正在消逝的鲟鱼吗?	谢 平(899)
[学术争鸣]葛洲坝下中华鲟(<i>Acipenser sinensis</i>)性腺退化严重吗?	黄真理,王鲁海(915)
[学术争鸣]中华鲟(<i>Acipenser sinensis</i>)生存危机的主因到底是什么?	王鲁海,黄真理(924)
城市富营养化湖泊的外源污染负荷与贡献解析——以武汉市后官湖为例	杨水化,彭正洪,焦洪赞,许 静,王永桂(941)
雄安新区—白洋淀冰封期水体污染特征及水质评价	孙 悦,李再兴,张艺冉,周石磊,战 江,王 函,尹 璐,郭朋朋(952)
结合主成分分析法(PCA)和正定矩阵因子分解法(PMF)的鄱阳湖丰水期表层沉积物重金属源解析	匡荟芬,胡春华,吴根林,陈 苗(964)
1970s 以来巢湖流域水环境保护区景观生态脆弱性时空特征及驱动解析	黄木易,仲 勇,冯少茹,张嘉晖(977)
基于水化学和氮氧同位素的贵州草海丰水期水体硝酸盐来源辨析	殷 超,杨海全,陈敬安,郭建阳,王敬富,张 征,唐续尹(989)
硅酸盐矿物麦饭石对沉水植物苦草(<i>Vallisneria spiralis</i>)生长的促进效应	骆 凤,张 义,韩 帆,刘云利,王 坚,孙 坚,刘子森,邹羿凌云,吴振斌(999)
土地利用结构与景观格局对鄱阳湖流域赣江水质的影响	徐启渝,王 鹏,王 涛,舒 旺,张 华,齐述华(1008)
三峡库区不同城镇化梯度下河流 $p\text{CO}_2$ 动态及驱动因素	易子涵,李思悦,唐 薇,李玉英(1020)
鄱阳湖水体溶解有机质分子量分布、荧光特征及对重金属分布的影响	李雅妮,徐华成,江和龙(1029)
针铁矿对湖泊草、藻来源可溶有机质的非均质吸附	章 奇,居 琪,李健欣,曹驰程,江和龙,张 晖(1041)
太湖蓝藻碎屑对水质及附着藻和水丝蚓生物量的影响	夏曼莉,于谨磊,何 虎,关保华,陈非洲,刘正文(1050)
富营养深水库底栖动物群落与浮游生物相关性分析	池仕运,韦翠珍,胡 俊,王 瑞,周连凤,胡菊香(1060)
江西柘林湖水华蓝藻——长孢藻(<i>Dolichospermum</i>)的形态多样性及其分子特征	张毅鸽,王一郎,杨 平,戴国飞,耿若真,李守淳,李仁辉(1076)
九寨沟国家级自然保护区长海夏季浮游植物群落结构及生态评价	邢冰伟,徐季雄,曹 玥,邓贵平,庞婉婷,王全喜(1088)
乌梁素海沉水植物群落光谱特征及冠层水深影响分析	杜雨春子,青 松,曹萌萌,袁瑞强,顺布日,郝艳玲(1100)
2016—2018 年长江下游安庆江段四大家鱼仔稚鱼资源调查分析	丁隆强,何晓辉,李新丰,方弟安,徐东坡(1116)
洞庭湖流域常德柳叶湖及其邻近水体轮虫群落结构变化及其对环境因子的响应	叶晓彤,梁迪文,王 庆,魏 南,杨宇峰(1126)
汉江上游干流和秦岭南麓典型支流的底栖动物群落特征及水质生物评价	侯易明,潘保柱,蒋小明,蒋万祥,朱朋辉,张 磊,杨海强(1140)
基于微卫星标记的长江江苏段鲢(<i>Hypophthalmichthys molitrix</i>)增殖放流资源贡献率的评估	杨习文,刘 熠,薛向平,王邢艳,文 红,王小豪,徐东坡,周彦锋,方弟安(1154)
白格堰塞湖对金沙江水沙及梯级水库运行的影响	朱玲玲,李圣伟,董炳江,许全喜,袁 晶(1165)
2018 年巢湖风浪特征分析	张怡辉,胡维平,彭兆亮(1177)
大型浅水湖泊水体对流混合速率分析	肖启涛,段洪涛,张 弥,刘寿东,胡正华,李旭辉(1189)
中国西部湖泊水体 δD 与 $\delta^{18}\text{O}$ 的空间变化特征及其影响因素	冯盛楠,刘兴起,李华淑(1199)
[综述]逸度模型在湖泊流域农药多介质趋归研究中的应用与展望	覃一帆,孔祥臻,李一龙,武睿琳,徐福留(1212)

第 5 期

庆祝中国科学院南京地理与湖泊研究所建所八十周年专刊

- 前言 张甘霖(1227)
- [专稿]浅水湖泊湖沼学与太湖富营养化控制研究 秦伯强(1229)
- [专稿]湖沼学是研究内陆水体的多学科整合科学——兼论我国湖沼学发展面临的挑战与机遇 刘正文,苏雅玲,杨柳(1244)
- [专稿]湖泊底泥环保疏浚决策研究进展与展望 范成新,钟继承,张路,刘成,中秋实(1254)
- [专稿]湖泊环境科学与工程技术研究进展探讨 江和龙,王昌辉,白雷雷,韩超,陈晓芳,王春柳(1278)
- [专稿]从中华鲟(*Acipenser sinensis*)生活史剖析其物种保护:困境与突围 危起伟(1297)
- [专稿]长江中华鲟(*Acipenser sinensis*)保护——反思、改革和创新 黄真理,王鲁海(1320)
- [专稿]1960s 以来白洋淀水文、环境、生态演变趋势 易雨君,林楚翘,唐彩红(1333)
- [专稿]过去 40 年太湖剧烈的湖泊物理环境变化及其潜在生态环境意义 张运林,秦伯强,朱广伟(1348)
- [专稿]我国湖泊水文学研究进展与展望 张奇,刘元波,姚静,赖锡军,李相虎,吴桂平,黄群,孙占东,张丹,李云良,谭志强,刘星根(1360)
- [专稿]中国湖泊古生态研究进展 羊向东,王荣,董旭辉,王倩,陈旭,徐敏,张科(1380)
- [专稿]富营养化湖库天—空—地—体化监控平台系统设计与实践 段洪涛,万能胜,邱银国,刘刚,陈青,罗菊花,陈远,齐天赐(1396)
- [专稿]湖泊水情遥感研究进展 宋春桥,詹鹏飞,马荣华(1406)
- 太湖蓝藻水华的年度情势预测方法探讨 朱广伟,施坤,李未,李娜,邹伟,国超旋,朱梦圆,许海,张运林,秦伯强(1421)
- “引江济太”对 2016 年后太湖总磷反弹的直接影响分析 朱伟,薛宗璞,章元明,翟淑华,冯甘雨,王若辰,陈怀民,胡思远,赵帅,周娅(1432)
- 巢湖西湖底泥蓝藻对水体蓝藻生物量的贡献 史小丽,范帆,张民,阳振,陈开宁(1446)
- 环太湖江苏段入湖河道污染物通量与湖区水质的响应关系 吕文,杨惠,杨金艳,马倩,高晓平,蒋如东,王晓杰,徐勇,聂青(1454)
- 亚热带地区典型水库流域氮、磷湿沉降及入湖贡献率估算 余博识,梁亮,郑丹萍,刘会萍,童秀华,唐华峰,徐克铭(1463)
- 生物完整性在时间尺度趋势分析中的偏差和校正研究——以松花江流域为例 阴琨,李中宇,赵然,王业耀,金小伟(1473)
- 山东省东平湖菹草(*Potamogeton crispus*)腐烂过程中水体温室气体溶存浓度及扩散通量变化 邓焕广,刘涛,鲁长娟,张菊,曹起孟,姚昕(1484)
- 大型深水水库溶解氧层化结构演化机制 余晓,诸葛亦斯,刘晓波,杜强,谭宏(1496)
- 东洞庭湖浮游藻类粒级结构组成及其关键影响因子 李胜男,熊丽萍,彭华,余丽,纪雄辉(1508)
- 基于越冬水鸟生境模拟的拟建鄱阳湖水利枢纽生态控制水位探讨 陈炼钢,陈黎明,徐祎凡,贾建伟,栾震宇,施勇,金秋,胡腾飞(1519)
- 洞庭湖生态水位及其保障研究 王鸿翔,朱永卫,查胡飞,郭文献(1529)
- 梯级筑坝对黑河水质时空分布特征的影响 王昱,卢世国,冯起,刘蔚,刘娟娟,刘开清,左一锋(1539)
- 基于 Landsat 与 Sentinel-3A 卫星数据的当惹雍错 1988—2018 年湖泊水位—水量变化及归因 王文种,黄对,刘九夫,刘宏伟,王欢(1552)
- [研究简报]倒置显微镜拍照法对浮游植物计数的稳定性分析 陈明华,史康佳,李志杰,蔡菲,张浩,张建辉,胡文涛(1564)

第 6 期

- [专稿]有色可溶性有机物(CDOM)吸收作为湖库化学需氧量监测替代指标的探讨 张运林,朱广伟,秦伯强,周永强,施坤(1575)

[综述] 水域生境好氧不产氧光合细菌(AAPB)研究进展	
..... 张海涵,王 燕,刘凯文,黄廷林,李 楠,杨尚业,司 凡,苗雨甜,黄 鑫,张梦瑶(1585)	
太湖梅梁湾藻华暴发一消退周期表层水体溶解性有机质分子特征	
..... 鹿佳丽,许燕红,何毓新,史 权,何 丁,孙永革(1599)	
环境因子对乌梁素海水体营养状态的影响:基于 2013—2018 年监测数据的分析	
..... 全 栋,张 生,史小红,孙 标,宋 爽,郭子扬(1610)	
太湖流域苏州城区不同用地类型降雨径流中重金属的生态风险评价	
..... 孙甜甜,田永静,赵 炜,孙 康,姜 涛(1620)	
长江中游湖泊表层沉积物多环芳烃的分布、来源特征及其生态风险评价	
..... 万宏滨,周 娟,罗 端,杨 浩,黄昌春,黄 涛(1632)	
大型浅水湖泊沉积成岩模型不确定性与敏感性分析——以氮为例	
..... 程 月,李一平,施媛媛,唐春燕(1646)	
富营养化对湖泊消费者群落碳源和氮源的影响——以白洋淀为例	
..... 秦 珊,崔建升,申立娜,张璐璐,剧泽佳,付 雨(1657)	
蓝藻碎屑堆积对湖泊沉积物矿化特征的影响	
..... 杜 先,荀 凡,王亚蕊,陈新芳,沈 悦,李 勇,冯慕华(1671)	
喀斯特筑坝河流中生物碳泵效应的碳施肥及对水化学时空变化的影响——以贵州平寨水库及红枫湖	
为例	
..... 韩翠红,孙海龙,魏 榆,鲍 乾,晏 浩(1683)	
微生物降解及自团聚作用对鄱阳湖流域瑶湖水中不同粒径胶体荧光物质变化的影响	
..... 黄 娟,聂明华,丁明军,晏彩霞,刘慧慧,吕泽兰(1695)	
秋季连续打捞蓝藻对水—气界面温室气体通量的影响	
..... 荀 凡,杜 先,陈新芳,刘高飞,齐天赐,冯慕华(1707)	
洞庭湖湿地植被长期格局变化(1987—2016 年)及其对水文过程的响应	
..... 周 静,万荣荣,吴兴华,张 宇(1723)	
西洞庭湖沉水植物分布格局对环境因子及水文情势差异的响应	
..... 郭凯迪,张晓波,刘培中,雷光春,吕 偲,曾喜凡,曾伟坤(1736)	
鄱阳湖湿地典型中植物水分利用来源的同位素示踪	
..... 许秀丽,李云良,谭志强,郭 强(1749)	
铁对拟柱孢藻(<i>Cylindrospermopsis raciborskii</i>)和角星鼓藻(<i>Staurastrum</i> spp.)季节动态和生长的影响——	
以广东大沙河水库为例	
..... 谭 琳,胡润鹏,钟慧君,肖利娟,雷腊梅,韩博平(1761)	
以鲢、鳙养殖为主的长江中下游武山湖浮游植物群落结构特征	
..... 张佳敏,高 健,杨 诚,张泽慧,潘 超,廖明军,赵以军,王和云,杨雨慧(1771)	
巢湖 4 种蚌类不同组织中 5 种微量元素含量及其空间变化	
..... 吴曼曼,孙庆业(1784)	
渭河干流和秦岭北麓典型支流底栖动物群落结构及水质生物评价	
..... 杨海强,潘保柱,朱朋辉,蒋万祥,蒋小明,侯易明(1793)	
三峡水库消落带适生树种落羽杉(<i>Taxodium distichum</i>)叶片—细根碳/氮/磷生态化学计量特征	
..... 刘明辉,谢婷婷,袁中勋,李丽娟,李昌晓(1806)	
鳊鲂对“蚌—草”关系的影响	
..... 于谨磊,杨 柳,夏曼莉,侯元璋,何 虎,关保华,刘正文(1817)	
波浪条件下刚性植被茎干紊流对沉积物再悬浮的促进作用	
..... 易雨君,唐彩红,张尚弘(1827)	
黄河下游游荡段不同畸形河湾的演变特点	
..... 江青蓉,夏军强,周美蓉,王英珍(1837)	
太湖流域漏湖水体悬浮物分布特征及其影响因素	
..... 吴晓东,王 露,晁建颖,廖泽勇,胡 垚,任伟祥,周梦蝶(1848)	
乌梁素海湖冰晴天反照率日变化特征的统计模型比较和分析	
..... 汤明光,李志军,卢 鹏,曹晓卫,李国玉,Leppäranta Matti,Arvola Lauri,石利娟(1858)	
巢湖杭埠河流域湖相沉积物多指标揭示的全新世以来环境演变	
..... 周 慧,吴 立,马春梅,管后春,孙小玲,路曙光,尚广春,汪 勇,徐仪红,徐 军,陈 晔,鲍远航(1869)	
紫坪铺水库沉积物 Sr 同位素及元素组成变化对 2008 年汶川大地震的响应	
..... 陈 晨,金章东,徐 阳,李良波,苟龙飞,张 飞(1882)	

Journal of Lake Sciences Volume 32, 2020 Contents

Number 1

The responses of the benthic-pelagic coupling to eutrophication and regime shifts in shallow lakes: Implication for lake restoration	1-10
LIU Zhengwen, ZHANG Xiufeng, CHEN Feizhou, DU Yingxun, GUAN Baohua, YU Jinlei, HE Hu & ZHANG Yongdong	
The variation of water quality from 2012 to 2018 in Lake Chaohu and the mitigating strategy on cyanobacterial blooms	11-20
ZHANG Min, SHI Xiaoli, YANG Zhen & CHEN Kaining	
Long-term variations of phosphorus concentration and capacity in Lake Taihu, 2005–2018: Implications for future phosphorus reduction target management	21-35
ZHU Guangwei, ZOU Wei, GUO Chaoxuan, QIN Boqiang, ZHANG Yunlin, XU Hai & ZHU Mengyuan	
The limitations of comprehensive trophic level index (<i>TLI</i>) in the eutrophication assessment of lakes along the middle and lower reaches of the Yangtze River during summer season and recommendation for its improvement	36-47
ZOU Wei, ZHU Guangwei, CAI Yongjiu, XU Hai, ZHU Mengyuan, GONG Zhijun, ZHANG Yunlin & QIN Boqiang	
Calculation of total phosphorus loads from rivers around Lake Taihu and analysis of total phosphorus fluctuation in the lake in 2015–2016	48-57
ZHAI Shuhua, ZHOU Ya, CHENG Yuanhua, CAI Jie & HU Yanwen	
Release of copper and lead from the sediment-water interface under <i>in-situ</i> coverage of amino biochar via Diffusive Gradients in Thin-films (DGT)	58-69
HUANG Yanhong, GAO Fan, GUO Wei, GUO Jiaxuan, WANG Jingxian & XU Tong	
Estimates and characteristics of pollutant discharge from pond cultures in the Taihu Basin	70-78
PENG Lingyun, TI Chaopu, LI Hengpeng, WANG Liangjie & YAN Xiaoyuan	
Species and health risk assessment of chromium around uranium tailing pond in the upper reaches of Lake Poyang Basin	79-88
YI Ling, GAO Bai, DING Xiaoyan, MA Wenjie, DU Chaochao, FAN Hua & LI Yanmei	
Demarcation and administration of watershed ecological protection red line considering the ecological security pattern—A case of the Qilu Lake watershed, Yunnan Province	89-99
YU Peiheng, FENG Mingxue, LIU Bin, BAI Shaoyun, GU Shixiang & CHEN Yiyun	
Speciation distribution and risk assessment of Hg and As in sediment of Lake Caohai wetlands under different water level gradients, Guizhou Province	100-110
TANG Xiangchen, LIN Tao, XIA Pinhua, HUANG Xianfei, MA Li & YANG Yu	
Spatial-temporal characteristics of carbon, nitrogen and phosphorus and eutrophication assessment in a typical river of Three Gorges Reservoir under the development of field towns	111-123
GONG Xiaojie, WANG Xiaofeng, LIU Tingting, YUAN Xingzhong, KONG Weiwei & LIU Huan	
Impacts of habitat filtering on taxonomic and functional composition of fish communities in Lake Caizi, lower reaches of the Yangtze River	124-133
GU Chen, JIANG Meitong & JIANG Zhongguan	
The trade-offs of functional traits in <i>Microcystis</i> (FACHB-905) and <i>Anabaena</i> (FACHB-82) responding to temperature	134-143
GUAN Yue, ZHANG Min & ZHAO Xingqing	

Intraspecific variation of morphological traits and toxin-producing capacity and phylogenetic analysis for <i>Cylindrospermopsis raciborskii</i> from Qiandenghu Lake, Guangdong Province	144-153
LU Yan, LEI Minting, YE Jinmei, LEI Lamei & HAN Boping	
Species identification of zooplankton resting eggs based on DNA barcode technology: A case study of Lake Liuye (Changde), Lake Dongting Basin	154-163
YU Wenbo, WANG Qing, WEI Nan, LIANG Diwen, YANG Yufeng & CUI Zongbin	
Spatial distribution of soil carbon, nitrogen and phosphorus concentrations and their ecological stoichiometry along a water gradient in Caohai wetland, Guizhou Province	164-172
YANG Yu, XIA Pinhua, LIN Tao, YAN Dingbo, SONG Xu, MA Li & TANG Xiangchen	
Spatio-temporal variations of dissolved inorganic carbon and its isotopes in river-reservoir continuum: A case study on Yunnan Section of the Lancang River	173-186
YUAN Bo, WU Wei, GUO Mengjing, ZHOU Xiaode & XIE Shuguang	
Evolution of groundwater-lake system in typical open-pit coal mine area	187-197
XIA Manhong, DONG Shaogang, LIU Baiwei, LI Yi, LI Zhengkui, WANG Chao & ZHOU Yuze	
Design water level for flood control of water conservancy projects at the inlet and confluence of branches in river basins: A case study from Guiping Shipping Hub, Xijiang River, Pearl River Basin	198-206
GAN Fuwan, HUANG Yuming, ZHANG Huaguo, GAO Yang, QIN Lina & XIAO Liang	
Spatio-temporal variations of the drought-flood abrupt alternation events in the Lake Poyang Basin from 1960 to 2012	207-222
WANG Rong, LI Xianghu, XUE Chenyang & ZHANG Dan	
Flood risk analysis in the Taihu Basin during flood periods based on Copula function	223-235
LUO Yun, DONG Zengchuan, GUAN Xike, LIU Yuhuan, ZHONG Dunyu & YUAN Jiachen	
Wind wave characteristics of Lake Chaohu under the influence of typhoon	236-245
ZHANG Yihui & HU Weiping	
Characteristics and genesis of the double potash layer metallogenetic model of Kuntayi Depression in the northwest margin of Qaidam Basin	246-258
LIU Xixi, YUE Xin, YU Xiaoliang, MA Zhe, LU Liang, ZHANG Xiaodong & MA Zongde	
Comparison of sediment proxies of cores and their environmental significance at different locations of Lake Toson in Qaidam Basin	259-270
DING Zongyan, ZHANG Jiawu, YANG Panpan, ZHOU Shan & ZHANG Yuzhi	
Mini-review: Advances of metagenomics research for lake microbiomes	271-280
LUO Jianhua, TAO Ye, XING Peng & WU Qinglong	

Number 2

How to evaluate and rescue endangered species?	281-293
XIE Ping	
A systematic literature review and perspective on water-demand for ecology of Lake Baiyangdian	294-308
YANG Wei, ZHAO Yanwei, LIU Qiang & SUN Tao	
Occurrence and distribution of persistent organic pollutants in water of Chinese lakes and reservoirs	309-324
TAO Yuqiang & ZHAO Ruihan	
Effects of great floods on phosphorus in shallow lakes: A case study of Lake Taihu in 2016	325-336
ZHU Wei, HU Siyuan, FENG Ganyu, ZHANG Yuanming, ZHAI Shuhua, XUE Zongpu, ZHAO Shuai, CHEN Huaimin & WANG Ruochen	

Occurrence and distribution of perfluorinated compounds in surface water of Lake Qiandao (Xin'anjiang Reservoir)	337-345
ZHANG Ming, TANG Fangliang, CHENG Xinliang, XU Jianfen, ZHANG Wei, YU Yayun & WANG Liqun	
Effect of the decline of cyanobacterial bloom on the organic carbon composition of lake sediment carbon pool	346-356
WANG Xuan, LI Zhichun, LI Xiang, XU Xiaoguang, ZHANG Siyuan, WANG Huimin, LI Rongqiang & WANG Guoxiang	
Bioaccumulation effects of microplastics and heavy metals pollutants in the dominant freshwater fish species in the Longkou entry of Raohe River, Lake Poyang Basin	357-369
LI Wenhua, JIAN Minfei, YU Houping, YANG Wenjing, LIU Shuli, NI Caiying & JIANG Yumei	
The influences of the water diversion structure change on total phosphorus retention and implication for ecological flows in Yuqiao Reservoir, Tianjin	370-379
ZHANG Chen, SONG Didi & LIAN Tiehui	
Spatial and temporal distribution characteristics of bacterioplankton community structure in the downstream of Pearl River	380-394
DU Wanlin, SUN Jinhui, MAI Yongzhan, LAI Zini, JIA Huijuan, GE Dayan & WANG Chao	
Influence of soil fauna on the litter decomposition of Lake Poyang Wetland in winter	395-405
XIAO Ling, MA Yantian, GAN Zhiwei, CAI Runfa, LI Zhuolin, GE Gang & WU Lan	
Effect of calcium addition on phosphorus enrichment capacity of two submerged plants (<i>Potamogeton crispus</i> L. and <i>Ceratophyllum demersum</i> L.) in water bodies	406-416
CHEN Qi & WANG Heyun	
Suitable ecological water level of the East Lake Dongting after the Three Gorges Project operation	417-427
HUANG Yuyun, YU Minghui, LU Jing, SUN Zhaohua & TIAN Haoyong	
Sources and optical dynamics of chromophoric dissolved organic matter in Lake Gaoyou, Nansi, and Dongping	428-439
ZHANG Liuqing, YANG Yan, LI Yuanpeng, SHI Yu, ZHOU Lei, ZHOU Yongqiang & ZHANG Yunlin	
The production process of reactive oxygen radicals in the degradation process of grass-source dissolved organic matter	440-449
LIU Xin, WU Dinggui, JIANG Helong & SONG Na	
Ecological characteristics of dominant phytoplankton community in Lake Nanhai (Baotou) during freezing-thawing period	450-461
YANG Wenhuan, SHEN Han, ZHOU Mingli, WANG Zhichao, LI Weiping & PAN Tong	
Effects of environmental stress on characteristics of low molecular weight organic acids secreted by macrophyte roots	462-471
ZHANG Zhihong, YANG Shika, HAN Chao, XU Di, WANG Zhaode, KE Fan & SHEN Qiushi	
Interpolation method for monitoring the coverage of submerged plants based on echo detection: Taking the monitoring of submerged plant coverage in West Lake of Hangzhou as an example	472-482
PENG Xue, ZHANG Lu, HUANG Suzhen, LIN Qingwei, LIU Biyun, ZHANG Yi & WU Zhenbin	
Characteristics of three-dimensional fluorescence spectra and its correlation with water quality of surface water during dry and wet seasons in Lake Ebinur Watershed, Xinjiang	483-495
WANG Di, ZHANG Fei, ZHANG Zhaoyong, ZHANG Haiwei, ZHU Shidan & ZHANG Xianlong	
Spring migration routes and activity characteristics of populations of <i>Anser fabalis</i> wintering in Lake Poyang	496-505
CAO Kaiqiang, LI Yankuo, WANG Qiang, ZHOU Xuehong, ZHONG Yifeng & MIAO Lujun	
Spatial and temporal distribution of larvae and juvenile <i>Coilia nasus</i> in the lower reaches of the Yangtze River	506-517
LIU Yi, REN Peng, YANG Xiwen, LI Xingfeng, XU Dongpo & FANG Di'an	
Classification of ecomorphotypes of <i>Coilia nasus</i> from the middle and lower reaches of the Yangtze River Basin	518-527
JIANG Tao, LIU Hongbo, XUAN Zhongya, CHEN Xiubao & YANG Jian	

Application of rainfall dynamic system response curve method for streamflow and sediment simulation in loess region	528-538
BAO Weimin, GU Yuwei, SI Wei, HOU Lu, LU Jinli & LUO Quanfu	
Research on assessment criteria in probabilistic flood forecasting	539-552
JIANG Xiaolei, LIANG Zhongmin, HU Yiming, WANG Jun & LI Binqun	
Impact of urbanization on stream structure and connectivity of plain river network in the Taihu Basin	553-563
WEI Yingying, LI Yiping, WENG Shenglin, XU Yunwei & ZHU Li	
Sediment transport of different particle size groups in the downstream channel after operation of the Three Gorges Project	564-572
GUO Xiaohu, QU Geng, LIU Ya & LIU Xinyuan	
Dynamic change of Lake Qinghai shoreline from 1973 to 2018	573-586
QI Miaomiao, YAO Xiaojun, LIU Shiyin, ZHU Yu, GAO Yongpeng & LIU Baokang	
Tracking ecosystem regime shifts in Lake Xijiu (Taihu Basin) based on chironomid sub-fossil assemblages	587-595
ZHANG Chuming, NI Zhenyu & TANG Hongqu	

Number 3

The role of Tibetan Plateau lakes in surface water cycle under global changes	597-608
ZHU Liping, PENG Ping, ZHANG Guoqing, QIAO Baojin, LIU Chong, YANG Ruimin & WANG Junbo	
Water quality affected by floating debris near the dam section of Three Gorges Reservoir	609-618
ZHANG Xinyue, GAO Qianhong, YAN Jinbo, JI Daobin & LUO Yuhong	
Total pollutant load allocation in plain river network based on the entropy-environmental gini coefficient method	619-628
CHENG Yixin, LI Yiping, ZHU Xiaolin, SHI Yuanyuan, ZHU Ya, PAN Hongzhe, XU Yunwei & CHENG Yue	
Water quantity, quality and pollutant flux of inbound and outbound water in Zhejiang area of Taihu Basin	629-640
ZHU Xinyang, JIANG Caiping, MA Xiaoyan, ZHOU Kejin, JIA Jia, QUAN Bingqian, JIANG Lan, XU Juanjuan & WANG Peng	
Pollution characteristics and potential risks of chloroanisoles in surface water and sediments of three tributaries of Lake Dongting in dry season	641-653
HUANG Jieyu, REN Min, ZHAO Gaofeng & WANG Xiaoyan	
Distribution and risk assessment of organochlorine pesticides and polychlorinated biphenyls in surficial sediments from Lake Baiyangdian	654-664
XU Yan, CHEN Jiafeng, XU Lei, LIU Yuwei, XIE Liying, WANG Zhizhuo, JIN Miao & CHEN Yuwei	
Distribution characteristics of organic phosphorus in the sediments of rivers entering the Lake Hongze and the effects of exogenous substances on their fraction transformation	665-675
HAN Nian, YUAN Xuyin, ZHOU Huihua, ZHU Hai, XIONG Yuting & CHEN Yaozu	
Water quality change and influencing factors in Lake Hongfeng (Guizhou Province), 2009–2018	676-687
ZENG Huaxian, WANG Jingfu, LI Yulin, CHEN Jing'an, JIN Zuxue, HE Kangkang & YANG Xiaohong	
Characteristics and significance of nitrogen, phosphorus and oxygen transportation at the sediment-water interface in east Lake Chaohu	688-700
LI Yunben, KUANG Shuai, WANG Zhenyu, SHEN Qiushi, WANG Yadong & KANG Dejun	
Seasonal vertical stratification and the potential impacts of its fading on algal blooms in winter: Cases of Lake Chenghai and Lake Yangzonghai, Yunnan Plateau	701-712
ZHOU Qichao, YANG Xuan, WANG Weilu, DONG Jing, HUANG Licheng & QIN Jiang	
The influence of cascade reservoir construction on water chemistry distribution in Karst area	713-725
WANG Wanfa, ZHONG Jun, LI Cai, YI Yuanbi, CHEN Sainan, CHEN Shuai, LANG Yunchao & LI Siliang	

Effects of seasonal flooding and vegetation types on greenhouse gas emission in west Lake Dongting	726-734
GUO Jia, CHAO Bixiao, ZHANG Ying, LEI Guangchun & WANG Yuyu	
Investigation on the status quo of aquatic plant biodiversity in the riverways and littoral zones of the Lake Taihu rim	735-744
XIE Hongmin, LI Qisheng, LIU Shuailing, ZHANG You, HUANG Xiaolong & LI Kuanyi	
The response of soil seed bank diversity to soil moisture change in Lake Dongting	745-753
CHEN Mingzhu, JIN Zhao, LEI Guangchun, YANG Jian & LEI Ting	
Effect of different ecological treatment methods on microbial community in black and odorous sediment of urban river	754-761
JIN Zongan, LIU Zejun, TANG Yali, GUAN Baohua, LIU Zhengwen & REN Lijuan	
Succession of macrozoobenthic communities and implications for ecological restoration in an urban Lake Wuli, Jiang-su Province	762-771
XUE Qingju, TANG Xiangming, GONG Zhijun, GAO Guang & CAI Yongjiu	
Spatiotemporal variation of phytoplankton community and its relationship with environmental factors in the Lake Baiyangdian	772-783
LI Na, ZHOU Xushen, SUN Bowen, GAO Xueping & CUI Wenyan	
A newly recorded species of freshwater blooming dinoflagellates from China and its ecological risks	784-792
TAN Haochen, WANG Yuanyuan, LI Shuyin, ZHANG Qi, LIU Guoxiang & LIU Benwen	
Spatiotemporal variation of phytoplankton communities and their relationship with environmental factors in Lake Fuxian	793-803
LIU Xiaoxi, CHEN Li, JIANG Yineng, SHANG Li, ZHANG Tao, LI Rui, ZHAO Shuaiying & CHEN Guangjie	
Hatch dates and growth rates of grass carp (<i>Ctenopharyngodon idellus</i>) and silver carp (<i>Hypophthalmichthys molitrix</i>) juveniles in Three Gorges Reservoir, Lake Dongting and Lake Poyang	804-812
ZHANG Wenwu, MA Qin, LI Mingzheng, ZHANG Chen & GAO Xin	
Spatial-temporal analysis of landscape ecological risk in different seasons during the past 30 years in Lake Shengjin wetland, lower reaches of the Yangtze River	813-825
ZHU Xianfei, LU Yuting, WU Penghai, MA Xiaoshuang & ZHOU Lizhi	
Spatial combination model for semi-humid and semi-arid watersheds	826-839
LIU Yuhuan, LI Zhijia, LIU Zhiyu & HUANG Pengnian	
The improvement and application of the calculation formula of flow division ratio at anabranching channels within the Shashi Reach of the Jingjiang River	840-849
CHEN Li, CHEN Fan, ZHANG Wei & YUAN Jing	
Application of WRF-Hydro modeling system in Chenhe Basin and comparison with Xin'anjiang model	850-864
SUN Mingkun, LI Zhijia, LIU Zhiyu, HOU Aizhong, HUO Wenbo, Wen Yahui, KONG Xiangyi, DAI Jinwang & LIANG Shiqiang	
Water level prediction of Lake Poyang based on long short-term memory neural network	865-876
GUO Yan & LAI Xijun	
Optimization method for alpine lake turbulent flux data based on micro-meteorological information utilization	877-886
JIN Zheng & ZHANG Xueqin	
Extraction methods of different morphotypes of surface coat in cyanobacteria	887-898
LIU Lingxin, XIAO Yan, LI Zhe, WU Xinghua & ZHANG Yu	

Number 4

Can we save the disappearing sturgeons in the Yangtze River?	899-914
XIE Ping	

Did the gonads of the Chinese sturgeon below the Gezhouba Dam degenerate seriously? HUANG Zhenli & WANG Luhai	915-923
What is actually the main cause for the survival crisis of Chinese sturgeon? WANG Luhai & HUANG Zhenli	924-940
External pollution source load and contribution of urban eutrophic lakes—Taking Lake Hongtanhu of Wuhan as an example YANG Shuihua, PENG Zhenghong, JIAO Hongzan, XU Jing & WANG Yonggui	941-951
Water pollution characteristics and water quality evaluation during the freezing period in Lake Baiyangdian of Xiong'an New Area SUN Yue, LI Zaixing, ZHANG Yiran, ZHOU Shilei, ZHAN Jiang, WANG Han, YIN Lu & GUO Pengpeng	952-963
Combination of PCA and PMF to apportion the sources of heavy metals in surface sediments from Lake Poyang during the wet season KUANG Huifen, HU Chunhua, WU Genlin & CHEN Miao	964-976
Spatial-temporal characteristic and driving analysis of landscape ecological vulnerability in water environment protection area of Chaohu Basin since 1970s HUANG Muiyi, ZHONG Yong, FENG Shaoru & ZHANG Jiahui	977-988
Tracing nitrate sources with dual isotopes and hydrochemical characteristics during wet season in Lake Caohai, Guizhou Province YIN Chao, YANG Haiquan, CHEN Jing'an, GUO Jianyang, WANG Jingfu, ZHANG Zheng & TANG Xuyin	989-998
The effect of silicate mineral maifanite on the growth of submerged macrophytes <i>Vallisneria spiralis</i> LUO Feng, ZHANG Yi, HAN Fan, LIU Yunli, WANG Jian, SUN Jian, LIU Zisen, ZOU Yilingyun & WU Zhenbin	999-1007
Investigation of the impacts of land use structure and landscape pattern on water quality in the Ganjiang River, Lake Poyang Basin XU Qiyu, WANG Peng, WANG Tao, SHU Wang, ZHANG Hua & QI Shuhua	1008-1019
Dynamics and driving factors of the river $p\text{CO}_2$ in the Three Gorges Reservoir area with urbanization gradients YI Zihan, LI Siyue, TANG Wei & LI Yuying	1020-1028
Molecular weight distribution, fluorescence characteristics of dissolved organic matter and their effect on the distribution of heavy metals of Lake Poyang LI Yani, XU Huacheng & JIANG Helong	1029-1040
Heterogeneous adsorption of macrophyte- and algae-derived dissolved organic matter on goethite in freshwater lakes ZHANG Qi, JU Qi, LI Jianxin, CAO Chicheng, JIANG Helong & ZHANG Hui	1041-1049
Effects of cyanobacterial detritus on water quality and the biomass of periphyton and <i>Limnodrilus</i> spp. in Lake Taihu XIA Manli, YU Jinlei, HE Hu, GUAN Baohua, CHEN Feizhou & LIU Zhengwen	1050-1059
Correlation between macroinvertebrates and plankton in two deep eutrophic reservoirs CHI Shiyun, WEI Cuizhen, HU Jun, WANG Rui, ZHOU Lianfeng & HU Juxiang	1060-1075
Morphological diversity and molecular characteristics of bloom forming <i>Dolichospermum</i> species in Lake Zhelin, Jiangxi Province ZHANG Yige, WANG Yilang, YANG Ping, DAI Guofei, GENG Ruozhen, LI Shouchun & LI Renhui	1076-1087
Phytoplankton community structure and ecological evaluation in summer, Lake Changhai of Jiuzhaigou National Nature Reserve XING Bingwei, XU Jixiong, CAO Yue, DENG Guiping, PANG Wanting & WANG Quanxi	1088-1099
Spectral features of submerged aquatic vegetation and water depths impact in Lake Ulansuhai DU Yuchunzi, QING Song, CAO Mengmeng, YUAN Ruiqiang, SHUN Buri & HAO Yanling	1100-1115

The larvae and juvenile fish resources of the four major Chinese carps at Anqing section in the lower reaches of the Yangtze River from 2016 to 2018	1116-1125
DING Longqiang, HE Xiaohui, LI Xinfeng, FANG Di'an & XU Dongpo	
Variation of the rotifer community structure and its responses to environmental factors in Lake Liuye and its adjacent waters in Changde City, Lake Dongting Basin	1126-1136
YE Xiaotong, LIANG Diwen, WANG Qing, WEI Nan & YANG Yufeng	
Benthic macroinvertebrate community characteristics and bioassessment of water quality in the mainstem of upper Hanjiang River and its typical tributaries in the southern slope of the Qinling Mountains	1140-1153
HOU Yiming, PAN Baozhu, JIANG Xiaoming, JIANG Wanxiang, ZHU Penghui, ZHANG Lei & YANG Haiqiang	
Resource contribution rate assessment of stock enhancement of silver carp, <i>Hypophthalmichthys molitrix</i> in Jiangsu section of the Yangtze River based on microsatellite markers	1154-1164
YANG Xiwen, LIU Yi, XUE Xiangping, WANG Xingyan, WEN Hong, WANG Xiaohao, XU Dongpo, ZHOU Yanfeng & FANG Di'an	
Effect of Baige landslide-dammed lake on runoff and sediment of the Jinsha River and operation of cascade reservoirs	1165-1176
ZHU Lingling, LI Shengwei, DONG Bingjiang, XU Quanxi & YUAN Jing	
The characteristics of wind waves in Lake Chaohu in 2018	1177-1188
ZHANG Yihui, HU Weiping & PENG Zhaoliang	
Waterside convective velocity in a large and shallow lake: A case of Lake Taihu	1189-1198
XIAO Qitao, DUAN Hongtao, ZHANG Mi, LIU Shoudong, HU Zhenghua & LI Xuhui	
Spatial variations of δD and $\delta^{18}O$ in lake water of western China and their controlling factors	1199-1211
FENG Shengnan, LIU Xingqi & LI Huashu	
Application and prospects of fugacity models in the fate of pesticides in lake watershed	1212-1226
QIN Yifan, KONG Xiangzhen, LI Yilong, WU Ruilin & XU Fuli	
Number 5	
Preface for the Special Issue on Celebrating the 80th Anniversary of Nanjing Institute of Geography and Limnology, Chinese Academy of Sciences	1227-1228
ZHANG Ganlin	
Shallow lake limnology and control of eutrophication in Lake Taihu	1229-1243
QIN Boqiang	
Limnology is a multidisciplinary and integrative science for studying inland waters; With special reference to the challenges and opportunities for the development of limnology in China	1244-1253
LIU Zhengwen, SU Yaling & YANG Liu	
Research progress and prospect of environmental dredging decision-making of lake sediment	1254-1277
FAN Chengxin, ZHONG Jicheng, ZHANG Lu, LIU Cheng & SHEN Qiushi	
Advances and prospects in lake environment science and engineering: A review	1278-1296
JIANG Helong, WANG Changhui, BAI Leilei, HAN Chao, CHEN Xiaofang & WANG Chunliu	
Conservation of Chinese sturgeon (<i>Acipenser sinensis</i>) based on its life history: Dilemma and breakthrough	1297-1319
WEI Qiwei	
The Chinese sturgeon (<i>Acipenser sinensis</i>) conservation—Introspection, reform and innovation	1320-1332
HUANG Zhenli & WANG Luhai	
Hydrology, environment and ecological evolution of Lake Baiyangdian since 1960s	1333-1347
YI Yujun, LIN Chuqiao & TANG Caihong	

Long-term changes in physical environments and potential implications for the eco-environment of Lake Taihu in the past four decades	1348-1359
ZHANG Yunlin, QIN Boqiang & ZHU Guangwei	
Lake hydrology in China: Advances and prospects	1360-1379
ZHANG Qi, LIU Yuanbo, YAO Jing, LAI Xijun, LI Xianghu, WU Guiping, HUANG Qun, SUN Zhandong, ZHANG Dan, LI Yunliang, TAN Zhiqiang & LIU Xinggen	
A review of lake palaeoecology research in China	1380-1395
YANG Xiangdong, WANG Rong, DONG Xuhui, WANG Qian, CHEN Xu, XU Min & ZHANG Ke	
Discussions and practices on the framework of monitoring system in eutrophic lakes and reservoirs	1396-1405
DUAN Hongtao, WAN Nengsheng, QIU Yinguo, LIU Gang, CHEN Qing, LUO Juhua, CHEN Yuan & QI Tianci	
Progress in remote sensing study on lake hydrologic regime	1406-1420
SONG Chunqiao, ZHAN Pengfei & MA Ronghua	
Seasonal forecast method of cyanobacterial bloom intensity in eutrophic Lake Taihu, China	1421-1431
ZHU Guangwei, SHI Kun, LI Wei, LI Na, ZOU Wei, GUO Chaoxuan, ZHU Mengyuan, XU Hai, ZHANG Yunlin & QIN Boqiang	
Effect of water diversion from the Yangtze River to Lake Taihu on total phosphorus rebound after 2016	1432-1445
ZHU Wei, XUE Zongpu, ZHANG Yuanming, ZHAI Shuhua, FENG Ganyu, WANG Ruochen, CHEN Huaimin, HU Siyuan, ZHAO Shuai & ZHOU Ya	
The contribution of benthic cyanobacteria to the cyanobacterial biomass in water column in the center of western Lake Chaohu	1446-1453
SHI Xiaoli, FAN Fan, ZHANG Min, YANG Zhen & CHEN Kaining	
Relationship between water quality in Lake Taihu and pollutant fluxes of the rivers surrounding Lake Taihu in Jiangsu Province	1454-1462
LV Wen, YANG Hui, YANG Jinyan, MA Qian, GAO Xiaoping, JIANG Rudong, WANG Xiaojie, XU Yong & NIE Qing	
Wet atmospheric deposition of nitrogen and phosphorus and estimation of their contributions to the lake in typical subtropical reservoir basins	1463-1472
YU Boshi, LIANG Liang, ZHENG Danping, LIU Huiping, TONG Xiuhua, TANG Huafeng & XU Kerning	
On the generation and correction of deviation of biological integrity assessment for time-scale trend analysis: A case study of Songhua River Basin	1473-1483
YIN Kun, LI Zhongyu, ZHAO Ran, WANG Yeyao & JIN Xiaowei	
The effect of <i>Potamogeton crispus</i> decomposition on the dissolved concentrations and fluxes of greenhouse gases in Lake Dongping, Shandong Province	1484-1495
DENG Huanguang, LIU Tao, LU Changjuan, ZHANG Ju, CAO Qimeng & YAO Xin	
Evolution mechanism of dissolved oxygen stratification in a large deep reservoir	1496-1507
YU Xiao, ZHUGE Yisi, LIU Xiaobo, DU Qiang & TAN Hong	
Size-structure of phytoplankton biomass and driving factors in east Lake Dongting	1508-1518
LI Shengnan, XIONG Liping, PENG Hua, YU Li & JI Xionghui	
Ecological water level for proposed hydraulic construction locking Lake Poyang based upon wintering waterfowls habitat modelling	1519-1528
CHEN Liangang, CHEN Liming, XU Yifan, JIA Jianwei, LUAN Zhenyu, SHI Yong, JIN Qiu & HU Tengfei	
Ecological water level and its safeguard measures in Lake Dongting	1529-1538
WANG Hongxiang, ZHU Yongwei, ZHA Hufei & GUO Wenxian	

Effect of cascade dam construction on the spatio-temporal variations of water quality in Heihe River	1539-1551
WANG Yu, LU Shiguo, FENG Qi, LIU Wei, LIU Juanjuan, LIU Kaiqing & ZUO Yifeng	
Patterns and causes of changes in water level and volume in Tangra Yumco from 1988 to 2018 based on Landsat images and Sentinel-3A synthetic aperture radar	1552-1563
WANG Wenzhong, HUANG Dui, LIU Jiufu, LIU Hongwei & WANG Huan	
The stability of phytoplankton counting with inverted microscope	1564-1574
CHEN Minghua, SHI Kangjia, LI Zhijie, CAI Fei, ZHANG Hao, ZHANG Jianhui & HU Wentao	

Number 6

Application feasibility of chromophoric dissolved organic matter (CDOM) absorption coefficient as the substitute for chemical oxygen demand concentration in lakes and reservoirs	1575-1584
ZHANG Yunlin, ZHU Guangwei, QIN Boqiang, ZHOU Yongqiang & SHI Kun	
Aerobic anoxygenic photosynthesis bacteria (AAPB) associated with aquatic ecosystems	1585-1598
ZHANG Haihan, WANG Yan, LIU Kaiwei, HUANG Tinglin, LI Nan, YANG Shangye, SI Fan, MIAO Yutian, HUANG Xin & ZHANG Mengyao	
Molecular characteristics of surface dissolved organic matter in Meiliang Bay of Lake Taihu over the algal blooming-disappearance cycle	1599-1609
PANG Jiali, XU Yanhong, HE Yuxin, SHI Quan, HE Ding & SUN Yongge	
Impact of water environment factors on eutrophication status of Lake Ulansuhai based on monitoring data in 2013-2018	1610-1619
QUAN Dong, ZHANG Sheng, SHI Xiaohong, SUN Biao, SONG Shuang & GUO Ziyang	
Ecological risk assessment of heavy metals in rainfall runoff of different land use types in Suzhou of Taihu Basin	1620-1631
SUN Tiantian, TIAN Yongjing, ZHAO Wei, SUN Kang & JIANG Tao	
Distribution, source characteristics and ecological risk assessment of polycyclic aromatic hydrocarbons in surface sediments of lakes along the middle reaches of the Yangtze River	1632-1645
WAN Hongbin, ZHOU Juan, LUO Duan, YANG Hao, HUANG Changchun & HUANG Tao	
Uncertainty and sensitivity analysis of diagenesis model parameters in large shallow lakes—A case study on nitrogen	1646-1656
CHENG Yue, LI Yiping, SHI Yuanyuan & TANG Chunyan	
The influences of eutrophication for the carbon and nitrogen sources for aquatic consumer communities—A case study in Lake Baiyangdian	1657-1670
QIN Shan, CUI Jiansheng, SHEN Lina, ZHANG Lulu, JU Zejia & FU Yu	
Effects of algal-detritus accumulation on the mineralization characteristics of lake sediment	1671-1682
DU Xian, XUN Fan, WANG Yarui, CHEN Xinfang, SHEN Yue, LI Yong & FENG Muhua	
Spatiotemporal variations of hydrochemistry in karst dammed rivers and carbon fertilization effect of biological carbon pump: A case study of Pingzhai Reservoir and Lake Hongfeng in Guizhou Province	1683-1694
HAN Cuihong, SUN Hailong, WEI Yu, BAO Qian & YAN Hao	
Effect of microbial degradation and self-assembly on the changes in fluorescence components of the different sizes in waters from Lake Yaohu, Lake Poyang Basin	1695-1706
HUANG Xian, NIE Minghua, DING Mingjun, YAN Caixia, LIU Huihui & LV Zelan	
Effects of continuous cyanobacterial salvaging on greenhouse gas flux on water-air interface in autumn	1707-1722
XUN Fan, DU Xian, CHEN Xinfang, LIU Gaofei, QI Tianci & FENG Muhua	

Patterns of long-term distribution of typical wetland vegetation(1987–2016) and its response to hydrological processes in Lake Dongting	1723-1735
ZHOU Jing, WAN Rongrong, WU Xinghua & ZHANG Yu	
The response of submerged plants to different environmental factors and hydrologic regime in West Lake Dongting	1736-1748
GUO Kaidi, ZHANG Xiaobo, LIU Peizhong, LEI Guangchun, LV Cai, ZENG Xifan & ZENG Weikun	
Variations of water sources for a typical mesophyte vegetation in the Lake Poyang wetland using stable isotopes	1749-1760
XU Xiuli, LI Yunliang, TAN Zhiqiang & GUO Qiang	
Effect of iron on the seasonal dynamics and growth of <i>Cylindrospermopsis raciborskii</i> and <i>Staurastrum</i> spp.: A case study from Dashahe Reservoir, Guangdong Province	1761-1770
TAN Lin, HU Runpeng, ZHONG Huijun, XIAO Lijuan, LEI Lamei & HAN Boping	
Phytoplankton community structure of Lake Wushan stocked densely with planktivorous filter-feeding bighead and silver carp, middle and lower reaches of the Yangtze River	1771-1783
ZHANG Jiamin, GAO Jian, YANG Chen, ZHANG Zehui, PAN Chao, LIAO Mingjun, ZHAO Yijun, WANG Heyun & YANG Yuhui	
Contents of five trace elements in different tissues of four species of mussels in Lake Chaohu and their spatial variation	1784-1792
WU Manman & SUN Qingye	
Structure of macroinvertebrate communities and bioassessment of water quality in the Weihe River mainstream and its typical tributaries from the northern Qinling Mountains	1793-1805
YANG Haiqiang, PAN Baozhu, ZHU Penghui, JIANG Wanxiang, JIANG Xiaoming & HOU Yiming	
Carbon, nitrogen, and phosphorus ecological stoichiometric characteristics in leaves and fine roots of <i>Taxodium distichum</i> in the water-level fluctuation zone of the Three Gorges Reservoir region	1806-1816
LIU Minghui, XIE Tingting, YUAN Zhongxun, LI Lijuan & LI Changxiao	
Effects of bitterling fish on the relationships between submerged macrophytes and mussel	1817-1826
YU Jinlei, YANG Liu, XIA Manli, HOU Yuanzhang, HE Hu, GUAN Baohua & LIU Zhengwen	
Effect of stem-generated turbulence on sediment resuspension within rigid vegetation canopies in waves	1827-1836
YI Yujun, TANG Caihong & ZHANG Shanghong	
Evolution process of different abnormal river bends in the braided reach of the Lower Yellow River	1837-1847
JIANG Qingrong, XIA Junqiang, ZHOU Meirong & WANG Yingzhen	
Characteristics and its influencing factors of suspended solids distribution in Lake Gehu, Taihu Basin	1848-1857
WU Xiaodong, WANG Lu, CHAO Jianying, LIAO Zeyong, HU Yao, REN Weixiang & ZHOU Mengdie	
Comparison and analysis on the statistical models for the diurnal variations of lake ice albedo under clear skies of Lake Ulansuhai	1858-1868
TANG Mingguang, LI Zhijun, LU Peng, CAO Xiaowei, LI Guoyu, LEPPÄRANTA Matti, ARVOLA Lauri & SHI Lijuan	
Holocene environmental evolution recorded by multi-proxies from lacustrine sediments of the Hangbu River Valley, Lake Chaohu Basin, East China	1869-1881
ZHOU Hui, WU Li, MA Chunmei, GUAN Houchun, SUN Xiaoling, LU Shuguang, SHANG Guangchun, WANG Yong, XU Yihong, XU Jun, CHEN Ye & BAO Yuanhang	
The response of Sr isotopic and elemental compositions of Zippingpu Reservoir sediments to the 2008 Wenchuan earthquake	1882-1890
CHEN Chen, JIN Zhangdong, XU Yang, LI Liangbo, GOU Longfei & ZHANG Fei	