## **Table of Contents**

Multi-scale and Progressive Intelligent Prospecting Prediction Using Geological Big Data	1
Xu Kai, Kong Chunfang, Wu Chonglong, Li Yan, Tian Yiping	
Metallogenic Prediction of Manganese Ore Based on Generation Adversarial Network and Multi-source Geological Sample in Songtao	3
Kong Chunfang, Wu Chonglong, Li Yan, Tian Yiping, Xu Kai	
Preparation and Performance of Composite Photocatalysts with Magnetic Particles	5
Xindang Bo, Fenglan Chai, Bin Huang	
Preparation and Application of Amino-functionalized Magnetic Nanoparticles Composites	6
Xindang Bo, Fenglan Chai, Yuhao Xin, Fan Zhang	
Industrial Heritage Landscape Renewal Strategies in the Context of Industrial Cultural InheritanceTaking Tianjin First Machine Tool Factory as an Example	7
Dai Xiwei	
From the Perspective of Economic Interests and Sunlight Requirements: A Workflow for Generating Spatial Layout Based on the Characteristics of Urban Villages	8
Yuxiang Ni, Guohua Ji	
Green Oxidation of Diethylamine to Diethylhydroxylamine <i>via</i> Ti Encapsulated in Bilayer Si and Its Kinetics	9
Manman Jin, Zhiguo Lv, Qingtao Niu	
Study on the Patterns of Trilobite Richness Changes in the South China from the Late Cambrian to the Early Ordovician	10
Yufeng Qiao, Ruxue Xia, Yujie Wang, Yedan Zhang, Yibo Zheng, Yuefeng Shen, Yiying Deng	
Optimization of Acid-enzyme Hydrolysis Conditions of Horse Manure	11
An Dan, Huang Xuan	
Optimization of Enzymatic Hydrolysis Conditions of Sheep Manure	12
The Influence of Children's Spatial Perception and Tourism Experiences on Educational Tourist Satisfaction: A Case Study in Guangzhou	13
Darong Zhang, Yao Liu	

Study of Supercritical CO <sub>2</sub> Flooding with Diverting Agents in Heterogeneous Reservoirs	14
Zhao Shuting, Zhang Guangdong, Jia Jiqiang, Li Yangang, Yang Fan	
The Adaptation Mechanism of <i>Synechocystis sp.</i> PCC6803 in Organic-rich Water Environment:  Metabolism and Transcriptome	15
Guoxin Bai, Lei Zhang	
Response of Algal Blooms to Endogenous Nutrient Accumulation in Primary Tributaries of the TGR Revealed by Sediment Cores	16
Zenghui Song, Xuexing Yao, Guanglang Yang, Yemei Kong, Muhammad Waqas Yonas, Lei Zhang	
The Fine Spatial Scales of Hydrology in Dammed Tributaries Determining the Algal Blooms'  Potential	18
Muhammad Waqas Yonas, Xuexing Yao, Xiaojiao Luo, Abdelrahman M. Hassan, Zenghui Song, Guanglang Yang, Amechi S. Nwankwegu, Oluwafemi Adeyeye, Lianghong Long, Wei Huang, G. Douglas Haffner, Lei Zhang	
Effects of Calcium Supply and Sediment on Phytoplankton Community Structure in Pengxi River,  Three Gorges Reservoir Area	20
Yemei Kong, Lei Zhang	
Seasonal Variation of Particulate Matter Fluxes in the Western of Equatorial Indian Ocean	22
Efficient Denitrification and Process Control of Continuous Flow Anammox Treatment of Aged  Landfill Leachate	23
Lizhu Liu, Xuan Pan, Fangzhi Li, Jun Zhou, Dongjie Xiao	
A Review of Traffic Safety Research on the High-speed Train Crossing Deep Canyon Bridge and Tunnel Sections	24
Tongtong Zhang, Guoji Xu	
Research on Dry Replacement Method and Nitrogen Consumption Calculation for Large LNG Full Capacity Storage Tanks	25
Baohe Zhang, Yuanjie Zhang, Bo Sun, Zuowei Li	