## **Table of Contents**

Adsorption and Photocatalytic Properties of Modified Rectorite-Titanium Dioxide Composites	1
Du Yuanyuan, Shan Ping	
Study on Cement Matrix Composites Mixed with Graphene Oxide and Silicon Powder and Its Mechanical Properties	11
Song Guicai	
Construction Control of Long-span Prestressed Concrete Continuous Steel Frame Bridge Based on Grey Prediction	16
Li Jianhua	
Study on Fatigue Resistance Optimum Design of Steel-concrete Composite Beam Cable-stayed Bridge Deck	21
Liu Zhaohui	
Study on the Protection and Sustainable Utilization of Plateau Ecology	25
Xing Shunlin, Xu Penghui	
Research and Performance Analysis of Highway Pavement Widening Construction Technology	30
Lili Zhou	
Analysis on Finite Element of Carbon Fiber Composites for Vehicles	35
Li Wei	
Application and Analysis of BIM Technology in High Speed Railway Track Engineering Construction	40
Lili Zhou	
Study on Application and Impact of Assembly Construction Technology in Building Residential Engineering	45
Huang Min	
Study on Integrated Optimum Design System of Composite Aircraft Structures	49
Kong Lei	
A Brief description on the classification and geological significance of sedimentary basins	53
Yang Yimin, Wang Jun, Luo Jian, Luo Xiaoping	

Discussion on Civil Engineering Management and Effective Control of Engineering Cost	56
Ting Wang	
<b>Design Features and Construction Measures of Green Building</b>	61
Xinbo Ma	
Application of Renewable Energy in Architectural Design	68
Jing Peng, Di Cheng	
Control Measures of Energy Consumption and Carbon Emission in Urban Traffic	73
Bo Gao	
The Practice and Research of Water Protection of the Fuxian Lake in Yuxi City	77
Xianhua Wu, Jichang Wu, Wei Hu, Tao Yang, Dandan Liu	
Impacts of climate change on hydrological cycle in the Yangtze River Basin Based on regression analysis	83
Huang Keliang	
Optimization Design of Treating Slope Dangerous Rock Mass in Penglai Pavilion	88
Ying Yang, Binghua Zhou	
Influence of Building Load on the Stability of Loess Slope	94
Zhihai Zhao, Zhangjian Xu, Yanjie Sun, Yunou Sheng	
Analysis of Groundwater Seepage State of Foundation Pit with Pensile Cut-off Curtain	99
Qiang Zhang, Jianwen Zhong, Lei Niu	
Seepage Analysis on Pensile Curtain in Pumping Groundwater of Foundation Pit in the Water-rich Sand in Harbin Floodplain	104
Yunsheng Liu, Lei Niu, Jing Wang	
Effect of the Brazing Technique on Microstructure of TC4 Alloy Joint	110
Xiao Ding, Zhiling Wang	
Research on Thermal Simulation Test Parameters of CGHAZ for 2.25Cr1Mo0.25V Steel	114
Zhang Haoyu, Liu Changjun, Chen Jin	
Research Progress on Fire Resistance in Steel Structure Building	119
Peihang Lv	
A MEMS-based Double-layer Spiral Planar Inductor using Patterned Permalloy filled with Ferrite/Polyimide Composite Materials as Magnetic Layers	124
Xiaomin Zhu Pino Cheno Minomino Chen Guifu Dino	

Land Reclamation of Metal Mines in Hilly Areas ——A Case Study of hematite in Yao Jia Gou	131
Zhao Shuqin, Chen Yenan, An Hongfei	
The influences of precipitation on Cr in Jiaozhou Bay	138
Dongfang Yang, Zhenqing Miao, Haixia Li, Jun Ding, Qi Wang	
Quantification of Sedimentation and Accumulation of Cd in Jiaozhou Bay	142
Dongfang Yang, Zhenqing Miao, Haixia Li, Hang Zeng, Xiaolong Zhang	
Research on the Landscape Design of Urban Wetland in the Construction of "Sponge City"	147
Ding Fan	
Research on Fatigue Property of Composite Box Girder with Corrugated Steel Webs	151
Dai Yinghuan, Yuan Shucheng, Dong Jiangfeng	
Research on Green Rubber Concrete Construction Technology based on Fractal Dimension Theory	157
Fuyong Huang	
Study on Cost of Bridge Engineering under Different Pricing Modes	161
Junhu Zhao	
Research and Application of Bridge Detection and Condition Assessment	165
Qiyu Zhang	
Influence of Highway Traffic Noise on Environment and Governance Methods	169
Wenguang Xie	
Exploration on the Practical Application of the Flame Retardant Aluminum-Plastic Composite Plates used among Decorative Materials of the Curtain Wall of High-rise Buildings	174
Ting Zhou, Yu Song	
Nanosilver coated Chitin derived membrane as an Eco-friendly Dressing and Its Effect on Wound Healing	179
Daijun Zhou, Tao Yang, Gaoxing Luo	
Study on quantum optical phenomena of graphene under the high-intensity magnetic field drive	186
Zhaohua Wang, Liqing Ren	
Research on High-rise Building Design Based on Ecological Architecture	190
He Jin, Nan Zhang	
Kuznets Curve Approach to Fertilizer Pollution-Economic Growth Nexus in China	195

Li Fei

Analysis of reinforced concrete structures with cracks based on finite element mode

200

Yu Yongxiu