

4th International Conference on Sustainable Energy and Environmental Engineering (ICSEEE 2015)

Advances in Engineering Research Volume 53

Shenzhen, China
20 – 21 December 2015

Part 1 of 2

Editor:

P. Yarlagadda

ISBN: 978-1-5108-2051-7

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2016) by Atlantis Press
All rights reserved.
<http://www.atlantis-press.com/php/pub.php?publication=icseee-15>

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact the publisher:

Atlantis Press
Amsterdam / Paris

Email: contact@atlantis-press.com

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

PART 1

MECHANICAL SCIENCE AND ENVIRONMENTAL EQUIPMENT

INFLUENCE OF SUBGRADE DEFECTS ON VIBRATIONAL CHARACTERISTICS OF BALLASTLESS TRACK SUBGRADE OF HIGH-SPEED RAILWAY	1
<i>Qiyun Wang, Hongbin Zeng, Tingwei Jiang</i>	
INFLUENCE OF SUPPORT ARRANGEMENT ON BOX GIRDER STRUCTURE OF SPAN CURVED BRIDGE WITH HIGH PIERS	8
<i>Long Zhang</i>	
STUDY OF DEFORMATION MECHANISM ON THE PIPELINE IN STEEP LONGER DISTANCE SEAMS MINING	13
<i>Guoming Cheng, Tongzu Liu, Yunlong Wang</i>	
THE COMPARATIVE STUDY ON ANALYTICAL SOLUTIONS AND NUMERICAL SOLUTIONS OF THE DEFORMATION OF A CIRCULAR HOLE IN LAYERED ROCK MASS	18
<i>Zhizeng Zhang, Xiaochang Li, Xin Zhang</i>	
RELIABILITY ANALYSIS OF PRE-STRESSED CONCRETE CONTINUOUS GIRDERS BRIDGE USING INCREMENTAL LAUNCHING METHOD ON CHINESE CODE AND AASHTO LRFD	25
<i>Jiangang Cai, Yue Xu, Fenghui Dong</i>	
ANALYSIS OF THE OPTIMAL SLENDERNESS RATIO FOR POWER TRANSMISSION TOWER.....	31
<i>Zhenggang Fang, Peng Huang, Kun Wu, Juan Mo, Rui Liu</i>	
RESEARCH ON THE DESIGN METHOD OF THE AUTOMOBILE DESIGN LOAD OF THE SMALL SPAN BRIDGE IN THE HEAVY TRAFFIC VOLUME.....	38
<i>Yan Dai, Dengzhou Quan, Hongjie Guan</i>	
ANALYSIS OF THE CHEMO-THERMAL STRESSES AROUND A CYLINDRICAL HOLE IN A SATURATED POROUS MEDIUM.....	49
<i>Liang Chen, Qing Yao, Luwu He</i>	
THE RELIABILITY ANALYSIS FOR MAIN FUEL ACCELERATED REGULATION SYSTEM OF AERO-ENGINE BASED ON INTERVAL MODEL	56
<i>Lei-Lei Zhang, Sheng-Zhi Liu, Zheng Zhang, Feng Zhang</i>	
NUMERICAL SIMULATION OF FLUID-STRUCTURE INTERACTION FOR WIND-INDUCED DYNAMIC RESPONSE OF LOW-RISE LIGHTWEIGHT BUILDINGS WITH DIFFERENT ROOF PITCHES.....	62
<i>Zhenhua Liu, Qianyi Wang, Limei Tian</i>	
INFLUENCE OF CHANNEL DREDGING ON SUBSEA SHIELD TUNNEL USING FEM.....	66
<i>Xianghong Chen, Lianjin Tao, Xi Chen</i>	
THE ANALYSIS OF DYNAMIC RESPONSE OF ROCK MASS AROUND TUNNEL UNDER DYNAMIC UNLOADING.....	71
<i>Xian Li</i>	
CENTRIFUGE STUDY OF THE SEISMIC RESPONSE OF MUNICIPAL SOLID WASTE LANDFILL	77
<i>Ren Peng, Yujing Hou, Cun Wang</i>	
WIND-INDUCED NONLINEARITIES OF SUPER LONG STAY CABLES	82
<i>Mingjie Zhang, Fuyou Xu</i>	
ANALYSIS OF NATURAL VIBRATION CHARACTERISTICS OF THE STEEL TUBULAR TOWER FOR HORIZONTAL AXIS WIND TURBINE.....	87
<i>Zhenhua Liu, Lili Zhang, Juan Li</i>	
STUDY ON DAMAGE EVOLUTION CHARACTERISTICS OF COAL AND ROCK UNIAXIAL COMPRESSION BASED ON THE ACOUSTIC EMISSION.....	91
<i>Shugang Li, Ning Wang, Tianjun Zhang</i>	
ANALYSIS OF VIBRATION CHARACTERISTICS FOR OVERHEAD TRANSMISSION LINE BASED ON THE FINITE MODEL	96
<i>Lijiang Fan, Guofeng Yang, Bin Xue, Jia Du, Shudong Li</i>	
DESIGN OF BIONIC BAMBOO STEEL BICYCLE	104
<i>Tao Huang, Yanqin Gao, Maohuang Xu, Mingming Zhu</i>	

RESEARCH OF THE CHARACTERISTICS AND SUPERIORITY OF EXTERNAL STIMULATION OSCILLATION JET	111
<i>Jiao Cheng, Jiupeng Zou, Weihua Xu, Peiqi Liu</i>	
STUDY ON SAFETY AND COMPATIBILITY OF CONTROLLABILITY AND STABILITY TEST AND SQUARE FOR LARGE BUS	115
<i>Wenliang Li, Wei Zhou, Yukun Zhao, Lei Zhao</i>	
VIBRATION CHARACTERISTICS ANALYSIS OF EXHAUST SYSTEM BASED ON OPTIMIZATION OF HANGER POSITION	121
<i>Yupan Gong, Qingcao Dan</i>	
EXPERIMENTAL STUDY OF MICRO-EDM PRECISION MILLING	128
<i>Liaoyuan Zhang, Kangle Ma, Yue Geng, Yan Zhao</i>	
CONSTRUCTION AND LIFTING TECHNOLOGY FOR COLUMN SUBSECTION OF TENSION LEG PLATFORM.....	134
<i>Lixin Song</i>	
STUDY ON CONTRIBUTION OF BACK PLATE SHAPE OF BRAKE PAD TO DISC BRAKE SYSTEM NOISE	140
<i>Gong-Yu Pan, Zhong-Wang Jianng, Zi-Jun Yang, Lei Sun</i>	
GENERAL STUDY ON THE CONSTRUCTION AND INSTALLATION OF JACKET SKIRT PILE SLEEVE	148
<i>Jicheng Shi, Xin Lian, Yiwen Wu, Jifei Shang, Yuji Shen</i>	
MECHANICAL ANALYSIS FOR AL5052 JOINED BY MECHANICAL CLINCHING	154
<i>Yulin He, Zhengzhao Xu</i>	
STUDY ON AN EMBEDDED MONITORING AND CONTROL SYSTEM OF TOWER CRANE.....	161
<i>Jianzhi Wang, Baojiang Chen, Lin Xu</i>	
DISCUSSION ON FABRICATION OF DEEP WATER GRAVITY JACKET	165
<i>Ning Sun, Jifei Shang, Dawei Yao</i>	
IDENTIFICATION AND GRADATION OF WHEEL LOADER NOISE SOURCES.....	175
<i>Feng Chi, Xun Chen, Jun Zhou, Yong Wang, Qi Zhang</i>	
RESEARCH OF HMCVT SPEED CHANGE LAW BASED ON OPTIMAL PRODUCTIVITY	180
<i>Mingzhu Zhang, Dongyang Bai, Quansheng Wang</i>	
AERODYNAMIC ANALYSIS OF SMALL PROPELLER IN WIND FIELD USING CFD	186
<i>Chuansheng Zhang, Shengguang Xie, Tianhao Qin</i>	
TEST AND ANALYSIS OF GEARBOX DEDICATED SPREADER FOR CARS WORKSHOP	195
<i>Weixiong Wang, Min Chen, Guojian Huang, Jin Liu</i>	
RESEARCH ON VELOCITY LOOK-AHEAD ALGORITHM OF THE 6-DOF ROBOT	200
<i>Xiaowei Ni, Jianqun Liu, Weiqiang Gao</i>	
DESIGN OF CENTER CABLE DRILL ROD FOR COAL MINE	206
<i>Nanfei Yan</i>	
HYBRID SYSTEM DESIGN FOR PLATOON COLLABORATIVE STRATEGIES.....	212
<i>Zichao Huang, Qing Wu, Jie Ma</i>	
BATTLEFIELD EXPLOSIVE ORDNANCE DISPOSAL ROBOT	217
<i>Jun Li, Nuan Song, Yankun Tang, Changhong Ding</i>	
THE DESIGN OF FOLDABLE CHAIR BASED ON OMNIDIRECTIONAL MOVING WITH RESCUABLE PLATFORM	221
<i>Zhiguo Lu, Yuhui Liu, Xinyang Yu, Lei Li, Tao Li</i>	
STUDY ON RESONANT WIRELESS POWER TRANSMISSION SYSTEM WITH DUAL TRANSMITTERS	226
<i>Qiang Liu, Wen-Hua Ren, Xi Lu, Guang-Xuan Chen</i>	

NEW ENERGY, ENERGY SAVING TECHNOLOGY, ENVIRONMENTAL PROTECTION, SAFETY AND DESIGN

GENERAL AVIATION DEVELOPMENT PREDICTION RESEARCH*	231
<i>Weijun Pan, Rundong Wang, Lei Yang, Chuyang Yang, Xingyu Zhuo, Jie Luo</i>	
CREATE BEAUTIFUL HIGHWAY TRAFFIC ENGINEERING DESIGN	239
<i>Peng Zeng, Fa Wang</i>	
BEAUTIFUL HIGHWAY CONSTRUCTION CASE STUDY	244
<i>Youzhou Chen, Fa Wang</i>	
INITIAL ANALYSIS ON THE IMPROVEMENT OF HIGHWAY SLOP LANDSCAPE BASED ON THE ECOLOGICAL PROTECTION.....	249
<i>Aidao Luo, Zongling Yan, Wenguang Zhai</i>	

EFFECTS OF ROAD MAINTENANCE ON VEHICLE EMISSIONS EVALUATING BY THE MODEL OF HIGHWAY DEVELOPMENT AND MANAGEMENT	256
<i>Mengran Zhang</i>	
SPECIATION OF CR IN WASTE ROCKS OF XINQIAO PYRITE MINE IN TONGLING, CHINA	262
<i>Liwei Chen, Xiaochun Xu, Jun Wang</i>	
PEDESTRIAN EVACUATION BASED ON A IMPROVED DYNAMIC PARAMETERS MODEL.....	266
<i>Nuo Zhu, Fengru Shao</i>	
NEW TRENDS OF LANDSLIDE DISASTERS AFTER IMPOUNDMENT OF THE THREE GORGES RESERVOIR, CHINA, AND REFLECTIONS RELATED TO LANDSLIDE PREVENTION.....	270
<i>Chao Zhang, Rubin Wang</i>	
APPLICATION OF THE GLUE METHOD TO PARAMETER UNCERTAINTY ANALYSIS OF XINÂNJIANG MODEL	276
<i>Chao Zhang, Rubin Wang</i>	
EMBANKMENT DAM LEAKAGE SURVEY BASED ON ERI AND MRS	282
<i>Hongen Li, Zheng Li, Haifeng Xu, Yongjun He</i>	
STUDY ON THE EVALUATION INDEX SYSTEM OF GREEN CONSTRUCTION OF PILE FOUNDATION	289
<i>Dong Wang, Zhaohui Chen, Li He Luo</i>	
RESEARCH ON SLOPE SUPPORT TECHNOLOGY BASED ON FAST DRAINAGE	293
<i>Meng-Yun Mao, Yao Rong, Chun-Yang Wang, Bing Sun</i>	
SOME PROBLEMS DISCUSSION ON ELECTRO-OSMOTIC CONSOLIDATION OF SOIL	299
<i>Zi-Jian Ye</i>	
MODEL TEST STUDY ON LANDSLIDE OF RESERVOIR BANK NEAR DAM UNDER ANTECEDENT RAINFALL	304
<i>Zhuo Li, Yong-Jun He, Hai-Feng Xu, Yang Yang</i>	
VESSEL TRAFFIC CONTROL STRATEGY UNDER COMPLEX WEATHER CONDITIONS FOR THREE GORGES RESERVOIR.....	315
<i>Yaojie Chen, Liwen Huang</i>	
STUDY ON A NEW TYPE PLUNGE POOL OF HIGH ARCH DAM	323
<i>Yingkui Wang, Jia Zhu, Chunbo Jiang</i>	
ACCOUNTING AND ENVIRONMENT PATH FOR BUILDING SECTOR.....	327
<i>Soleimani Damaneh Alireza, Fengju Xu, Soleimani Damaneh Mohammadreza</i>	
A PRACTICAL DATA PROCESSING ANALYSIS FOR WATER IMPACT PROBLEM.....	332
<i>Yonghu Wang</i>	
ANALYSIS ON THE CONSTRUCTION OF GREEN ECOLOGICAL ARCHITECTURE SYSTEM IN WUHAN CITY CIRCLE	336
<i>Nan Lin</i>	
EVALUATING THE HABITAT FACTORS OF PRISTIPHORA LARICIS INFESTATION: INFORMATION LOAD MODEL	340
<i>Shuhan Wang, Bingbing Zeng, Xiaoli Zhang</i>	
OPTIMIZATION OF THE TYPICAL ENVIRONMENTAL PROBLEM BASED ON ENERGY CONSERVATION AND EMISSION REDUCTION	357
<i>Baoyou Liu, Tao Wang</i>	
COMPARATIVE STUDY ON METHOD FOR DETERMINING THE BENCHMARK OF OFFICE BUILDING ENERGY CONSUMPTION IN XÎNÂN	361
<i>Yuan Jia, Zengfeng Yan</i>	
STUDY ON THE INFLUENCE OF ENCLOSED CUT-OFF WALLS ON PRECIPITATION DESIGN FOR FOUNDATION PIT ENGINEERING	367
<i>Lianxiang Li, Fenting Lu, Zongcai Li</i>	
MEASUREMENT AND STUDY ON WINTER INDOOR THERMAL ENVIRONMENT OF CIVILIAN DWELLING IN SOUTH RURAL AREAS OF SHAANXI PROVINCE.....	372
<i>Pengchen Liu, Guochen Sang, Qin Zhao, Yiyun Zhu</i>	
THE RESIDENTIAL SELECTION BASED ON FUZZY MULTI-OBJECTIVE DECISION	378
<i>L. Zhang, K. Wu, D. Xia</i>	
THE TRAFFIC MODE CHOICE MODEL BASED ON FUZZY ORDER THEORY	384
<i>L. Zhang, N. Lv, K. Wu</i>	
APPLICATION OF CFRP SUSPENDERS FOR THROUGH AND HALF-THROUGH ARCH BRIDGES	390
<i>Jing Gao, Bin Zhao</i>	

EFFECTS OF NITROGEN DEPOSITION ON CH₄ UPTAKE AND CO₂ EMISSION FROM A TEMPERATE FORESTS IN NORTHEASTERN CHINA	397
<i>Guoyong Yan, Yajuan Xing, Miao Wang, Jianyu Wang, Shijie Han, Qinggu Wang</i>	
INVESTIGATION THE SPEED-UP EFFECTS OF WIND FLOW OVER TYPICAL TERRAINS COVERED BY VEGETATION	410
<i>Chao Li, J. H. Wang</i>	
ANALYSIS BASED ON IMPACTS FOR GRID-CONNECTED PHOTOVOLTAIC POWER STATION ON THE DISTRIBUTION NETWORK.....	414
<i>Jia Yuan, Xuyang Shi, Yujiang Wang, Huili Zheng, Feifei Jiang, Ruiyun Miao, Yini Zhang</i>	
DISCUSSION OF THE CITY SEWAGE CONDUIT CONSTRUCTION	419
<i>Yu Tang, Juanjuan Hu</i>	
BIG DATA RESEARCH AND APPLICATION IN OIL PIPELINE INSPECTION.....	424
<i>Mujun Wan</i>	
THE RESEARCH ON THE SIMULATION ABOUT HEAT LOSS IN A 220T/H CIRCULATING FLUIDIZED BED BOILER	428
<i>Huan Liu, Guoli Qi, Songsong Zhang, Zhongwei Wang, Jian Guan</i>	
RAMAN AND MOSSBAUER ANALYSIS OF THE INTERMEDIATE PRODUCTS FORMED DURING GOLD-BEARING PYRITE BIOOXIDATION BY MODERATELY THERMOPHILIC BACTERIA	438
<i>Chang-Li Liang, Wen-Qing Qin, Jing-He Chen, Shui-Ping Zhong, Hang-Qu Yang</i>	
ADVANCES IN TECHNOLOGY RESEARCH OF CHEMICAL APPROACH TO MARINE OIL SPILL	443
<i>Yunzhe Ji, Haomeng Xu, Xiaojie Wang</i>	
UNCERTAINTY ASSESSMENT OF CARBON DIOXIDE CONCENTRATION MEASUREMENT WITH A CAVITY RING-DOWN SPECTROMETER.....	447
<i>Xing Wang, Zeyi Zhou</i>	
DEGRADATION OF THIAMETHOXAM WASTEWATER USING THE GAS DIFFUSION ELECTRODE CATALYST BY LANI_{1-x}CO_xO₃.....	455
<i>Shanping Li, Lijun Liu, Yahui Li</i>	
PROGRESS AND PROSPECT OF RESEARCH ON N₂O DYNAMICS MODEL IN WASTEWATER BIOLOGICAL TREATMENT PROCESS	470
<i>Yutian Liu, Shoubin Zhang, Liping Qiu, Yuanyuan Zhang</i>	
HARMFULNESS, DETECTION AND TREATMENT OF EDCS IN WATER ENVIRONMENT	474
<i>Longlong Zhu, Liping Qiu, Lixin Zhang, Jiabin Wang, Kang Xie</i>	
STATUS OF SLIGHTLY POLLUTED RAW WATER TREATMENT IN CHINESE RURAL AREAS	479
<i>Longlong Zhu, Liping Qiu, Lixin Zhang, Shoubin Zhang, Kang Xie</i>	
CRYSTALLIZATION AND PHOSPHORUS REMOVAL FROM ANAEROBIC EFFLUENT IN A/O ALTERNANT BIOFILTERS.....	484
<i>Hongtao Cheng, Liping Qiu, Shoubin Zhang, Jiabin Wang, Kang Xie</i>	
STUDY OF ENERGY EFFICIENCY ASSESSMENT TECHNOLOGY OF STEAM SYSTEM IN IRON AND STEEL ENTERPRISE	489
<i>Jihui Chen, Tao Zhou, Maolin Dong</i>	
PHOSPHORUS RECOVERY FROM EXCESS SLUDGE: POSSIBILITY AND FUTURE	494
<i>Ming Gao, Liping Qiu, Kang Xie, Shoubin Zhang, Jiabin Wang</i>	
ENRICHMENT OF DENITRIFYING PHOSPHATE-ACCUMULATING ORGANISMS IN NITROGEN AND PHOSPHORUS REMOVAL PROCESS.....	498
<i>Zijin Qin, Liping Qiu, Shoubin Zhang, Jiabin Wang, Kang Xie</i>	
RECENT DEVELOPMENT OF SCALE MARINE AQUACULTURE WASTEWATER TREATMENT	502
<i>Panpan Liu, Liping Qiu, Shoubin Zhang, Jiabin Wang, Kang Xie</i>	
STUDY STATUS AND PROSPECT OF N₂O PRODUCTION AND REDUCTION CONTROL IN WASTEWATER BIOLOGICAL DENITRIFICATION	506
<i>Yuanyuan Zhang, Shoubin Zhang, Liping Qiu, Yutian Liu</i>	
RESEARCH STATUS AND PROSPECT OF MICRO-POLLUTED WATER PRETREATMENT WITH BIOLOGICAL AERATED FILTER.....	510
<i>Qianqian Song, Liping Qiu, Shoubin Zhang, Jiabin Wang, Kang Xie</i>	
CHARACTERISTICS AND INDEX SYSTEM CONSTRUCTION OF AIRPORT ECOLOGICAL COMMUNITY	514
<i>Haohao Dong, Liangcai Cai, Zhi Wang, Bin Shao</i>	

STUDY ON REMOVAL OF TYPICAL POLLUTANTS IN LANDFILL LEACHATE USING TWO KINDS OF AQUATIC PLANT	519
<i>Bo Ying, Hongbo Pan</i>	
STUDY AND APPLICATION STATUS OF BIOMAGNETIC EFFECT IN WASTEWATER TREATMENT	524
<i>Jiabin Wang, Lingli Zhu, Xing Li, Kang Xie</i>	
RECENT ADVANCES OF ANAEROBIC AMMONIUM OXIDATION TECHNOLOGY.....	528
<i>Jiabin Wang, Dong Zhang, Xing Li, Lingli Zhu, Kang Xie</i>	
A STUDY OF THE EFFECTS OF THE GRASSLAND ECOLOGICAL PROTECTION SUBSIDIARY-AWARD POLICY ON CHINA’S GRASSLAND ECOLOGY	533
<i>Chun Yang, Ming-Li Wang, Zhi-Xing Meng, Xu-Dong Yang</i>	
MODELING AND ANALYSIS OF VEHICLE WITH WIND-SOLAR PHOTOVOLTAIC HYBRID GENERATING SYSTEM.....	538
<i>Zhi-Jun Guo, Xiang-Yu Kang</i>	
THE EFFECT OF ACID LEACHING CONDITIONS ON ENRICHING IRON DURING COMPREHENSIVE TREATMENT OF PYRITE CINDER	543
<i>Jiawei Wang, Anjing Li, Haifeng Wang, Pingyuan Zhao</i>	
THE RESEARCH OF EXTRACTING SOLUBLE SYLVITE FROM BREEDING WASTEWATER	549
<i>Yu Guo</i>	
DIVERSIFICATION DEVELOPMENT AND UTILIZATION OF NEW ENERGY IN RURAL AREAS—TAKING QINHUANGDAO CITY OF HEBEI PROVINCE AS AN EXAMPLE.....	554
<i>Gouhui Li, Yang Song, Changyong Jing</i>	
MODELLING ANALYSIS OF METHODS FOR WIND TURBINE ANNUAL ENERGY PRODUCTION	559
<i>Dian Wang, Huixin Li, Faming Wu, Lei Wang</i>	
STUDY ON THE OPTIMAL DESIGN OF LONG-DISTANCE BRANCH DISTRIBUTION NETWORK IN RURAL DRINKING WATER SAFETY PROJECT	563
<i>Wenfen Wang, Chen Chen</i>	
STUDY ON COLLABORATIVE WARNING AND DISASTER MITIGATION MODE OF NON-ENGINEERING MEASURES OF RESERVOIRS AND MOUNTAIN TORRENT DISASTER CONTROL	569
<i>Hongen Li, Zheng Li, Haifeng Xu, Yongjun He, Guangya Fan</i>	
STUDY ON A HIGH-EFFICIENCY JET MODE OF STATIC GAS WAVE REFRIGERATION	575
<i>Weihua Xu, Jiupeng Zou, Jiao Cheng, Yuqiang Dai</i>	
EXPERIMENTAL AND SIMULANT STUDY ON THE GROUND SOURCE HEAT PUMP IN WINTER OF HEFEI.....	580
<i>Huizeng Li, Ning Hu, Chongda Jiang, Zhengling Hu, Jinwei Ma, Yanping Wang</i>	
EXPERIMENTAL AND SIMULANT STUDY ON VERTICAL U-TUBE UNDERGROUND HEAT EXCHANGER IN GROUND-SOURCE HEAT PUMP.....	586
<i>Zhen Gao, Jinwei Ma, Xiaochun Yu, Yu Zhang, Ning Hu, Yanping Wang</i>	
EXPERIMENTAL STUDY ON DESORPTION FOR CARBON DIOXIDE ABSORBENT RICH LIQUID BASED ON COKE FOUNTAIN PHENOMENON.....	592
<i>Yuanyuan Liu, Weiran Lyu, Kang Chen, Jianyi Lu</i>	
STUDY ON THE EXCAVATING PROJECT DESIGN OF MAIN SLOPE IN DAHAIZE COAL MINE	597
<i>Zhe Wang, Hongtao Hu, Shengqun Wu</i>	
STUDY ON OZONE OXIDATION OF AMMONIUM SULFITE IN AQUEOUS SOLUTIONS	603
<i>Rongjie Yi, Chengwu Yi, Daolin Du, Huijuan Wang</i>	
REVIEW OF WATER ENVIRONMENT TRANS-BOUNDARY MANAGEMENT IN SONGLIAO BASIN.....	609
<i>Zhaohan Zhang, Lijun Xiang, Guochen Zheng, Yujie Feng, Wei Liu</i>	

PART 2

FUTURE POWER GRID DISPATCH AND CONTROL MODE WITH LARGE-SCALE CLEAN ENERGY INTEGRATION IN CHINA.....	613
<i>Zhi Cai, Dan Xu, Sai Dai, Hui Cui, Qiang Ding</i>	
STUDY ON COMPREHENSIVE MEASUREMENT OF URBANIZATION LEVEL IN CHANGZHOU.....	619
<i>Hanbing Jin, Lanping Feng, Lu Meng</i>	

SCREENING ASSAY ESTABLISHMENT FOR TOXIGENIC BACTERIA FROM PSP-PRODUCING DINOFLAGELLATE ALEXANDRIUM TAMARENSE CULTURES	624
<i>Xiaoling Zhang</i>	
RESEARCH ON WIND ENERGY RESOURCE DISTRIBUTION OF YANGTZE ROUTE FOR DUAL-USE SAIL	628
<i>Zhenfei Huang, Yu Fu, Li Xu, Bing Tang</i>	
THE MAIN GEO-ENVIRONMENT PROBLEMS AND COUNTERMEASURE RESEARCH OF THE COASTAL ZONE OF PEARL RIVER ESTUARY	633
<i>Min Zeng, Feng-Mei Liu</i>	
MINJIANG RIVER MAINSTREAM WATER ECOLOGICAL PROTECTION AND RESTORATION.....	638
<i>Liang Qiu, Xiaoyong Luo</i>	
STUDY ON THE ECOLOGICAL MECHANISM OF URBAN MORPHOLOGY BASED ON URBAN METABOLISM	642
<i>Xiaoming Gao</i>	
RESEARCH ON FUEL CONSUMPTION AND EMISSION OF LNG BUS WITH THE DIFFERENT REDUCE EMISSIONS TECHNOLOGY.....	646
<i>Changyuan Wang, Yong Guo</i>	
ON THE NEW RURAL CONSTRUCTION STRATEGIES UNDER THE BACKGROUND OF LOW-CARBON ECONOMY	652
<i>Li Zhi</i>	
THE ANALYSIS OF THE PATH SELECTION OF REDUCING THE EXCESSIVE PACKAGING OF GOODS FROM THE PERSPECTIVE OF CIRCULAR ECONOMY	656
<i>Zhijuan Chen</i>	
ANALYZE THE HEALTH RISK ASSESSMENT OF CHLORINATED ORGANIC POLLUTANTS IN THE WATER SOURCE FOR FOOD PROCESSING IN NANNING	661
<i>Lili Wang, Song Kong, Cong Gao, Jian Liang, Xinliang Liu</i>	
TRILATERAL BENEFIT ANALYSIS FOR MEDICAL WASTE DISPOSAL	667
<i>Gunangfu Liu, Xin Xing</i>	
ENRICHMENT AND TISSUE DISTRIBUTION OF HEAVY METALS IN HORSESHOE CRABS FROM THE BEIHAI COAST OF BEIBU GULF	671
<i>Daoquan Xu, Yinghui Wang, Kefu Yu, Jing Guo, Zhiwei Xiao, Wanguo Ye, Wenpeng Jia</i>	
CHARACTERISTICS OF SALT LAKE DEPOSITION AND SIGNIFICANCE FOR OIL-GAS	675
<i>Jiangyan Liu, Rui Zhu, Lixin Chen</i>	
A STUDY ON CARBON SEQUESTRATION CAPACITY AND BENEFIT EVALUATION OF DIFFERENT MODES OF PLANT DISPOSITION IN KARST PEAK-CLUSTER DEPRESSION AREAS	680
<i>Xiaofeng Liao, Qiang Yan, Yuanguai Xie</i>	
THE INFLUENCE AND STRATEGIES OF THE POWER COMPANIES FOR PARTICIPATION IN THE CARBON MARKET IN CHINA	687
<i>Xiaoxuan Zhang, Li Ma, Song Xue</i>	
STUDY ON THE PURIFYING EFFECT OF THREE KINDS OF HYDROPHYTE UPON POLLUTED WATER	691
<i>Peng Sun, Kangping Cui, Weiyi Xu, Zheng Wang, Honghan Chen</i>	
SOIL ORGANIC CARBON CONTENT AND STOCKS IN AN AGE-SEQUENCE OF METASEQUOIA GLYPTOSTROBODES PLANTATIONS IN COASTAL AREA, EAST CHINA	695
<i>Lei Zhang, Peng Zhang, Mukui Yu, Tonggui Wu</i>	
ANALYSIS ON EFFICIENCY EVALUATION OF REGIONAL ENERGY-SAVING AND EMISSION-REDUCTION BASED ON DEA MODEL	704
<i>Shuang Wang</i>	
STUDY ON PROVINCE-WIDE EVALUATION INDEX SYSTEM OF ENERGY-SAVING AND EMISSION-REDUCTION IN CHINA	709
<i>Shuang Wang</i>	
STRUCTURAL PATTERN AND TECTONIC DIVISION OF Q Aidam BASIN AND ADJACENT AREA, NW CHINA.....	714
<i>Xiaohu Zhou</i>	
RESEARCH ON CONSTRUCTION OF INTEGRATIVE GEOGRAPHICAL DATA IN DIGITAL CITY MANAGEMENT: A CASE STUDY OF ZHENGZHOU CITY	719
<i>Zhaohui Wang</i>	
IMPACT OF GLOBAL DIMMING AND BRIGHTENING ON ESTIMATING SOLAR RADIATION FROM AIR TEMPERATURE IN CHINA	723
<i>Na Zhao, Ji Liang, Yanping Chen</i>	

THE DIAGENESIS OF SANDSTONE IN THE SIXTH OIL LAYER OF THE UPPER TRIASSIC YANCHANG FORMATION IN BAIBAO AREA, ORDOS BASIN	729
<i>Wei Guo, Dexun Liu, Huaqing Xue, Xiaobo Li</i>	
THE IMPACT OF DAILY BEHAVIOR PATTERNS ON THE THERMAL COMFORT OF HUMAN BODIES IN RURAL HEATING HOUSES OF NORTHERN CHINA	733
<i>Xueyan Zhang, Bin Chen</i>	
SPATIO-TEMPORAL ANALYSIS OF VEGETATION VARIATION IN THE JINGHE RIVER BASIN.....	738
<i>Dong Fan, Xiaotian Chen, Yaolin Li, Kai Du, Shufang Liu, Suzhen Dang, Peng Guo, Guotao Dong</i>	
COMPARISON ON EFFECTS OF DIFFERENT SAMPLING METHODS FOR THE DISINFECTION OF VENTILATOR PIPES.....	742
<i>Yanming Li, Zhenzhen Liang, Aizhong Zhao</i>	
DISCUSSION ON THE MODEL OF CITY SPATIAL STRUCTURE FROM THE PERSPECTIVE OF SOCIAL CHOICE THEORY	746
<i>Fang Li, Huiwu Yang</i>	
THE FRESH MACROALGA, GRACILARIA LEMANEIFORMIS SIGNIFICANTLY INHIBIT THE PHOTOPHYSIOLOGICAL ACTIVITIES OF RED-TIDE CAUSING MICROALGA, SCRIPPSIELLA TROCHOIDEA.....	752
<i>Changpeng Ye, Lina Luo, Ruoyang Chen, Jiangang Zhao</i>	
ANALYSIS ON THE PM_{2.5} CONCENTRATION DURING HEATING AND COOKING IN COLD RURAL AREAS OF NORTHERN CHINA	763
<i>Xueyan Zhang, Bin Chen</i>	
ANALYSIS ON MICROBIAL COMMUNITY STRUCTURE CHANGE FOR LOW PERMEABILITY RESERVOIRS IN DAQING OIL FIELD AT DIFFERENT DAYS IN OUTDOOR.....	767
<i>G. L. Ren, J. L. Wang, Y. X. Li, H. M. Yuan, J. J. Le, J. Y. Zhang, L. L. Bai, X. H. Chen, H. Zhang, Y. H. Huang</i>	
STUDY ON THE EFFECTS OF PARTIAL COOLING FOR PHYSIOLOGICAL RESPONSES RELIEF IN DUTY BOOTH UNDER HIGH TEMPERATURE WEATHER	774
<i>Zhihao Li, Bing Wei, Guozhong Zheng</i>	
ENVIRONMENTAL INFLUENCE OF RE-NAVIGATION IN THE HENAN YELLOW RIVER.....	780
<i>Jun Yan, Bingbing Wang, Hucheng Li, Baorui Qiu, Liuming Wan</i>	
ENVIRONMENTAL IMPACT OF HUAYUANKOU DIKE BREACH IN 1938	785
<i>Hucheng Li, Bingbing Wang, Jun Yan, Baorui Qiu, Fei Zhuo</i>	
STUDY ON COMBINED ARTIFICIAL WETLAND TREATMENT OF URBAN STREAM WATER.....	789
<i>Xiao Luo, Fengping Wang, Xiangyang Zheng, Congcong Zhao, Gang Hong, Junhua Li, Rutai Gao, Xiangshuai Meng, Lin Yue</i>	
ANALYSIS OF MARINE EXHAUST POLLUTANT EMISSION STANDARD RESEARCH.....	801
<i>Yunyue Chen, Yufen Cao, Huilei Xing</i>	
EFFECTS OF GLUCOSE AND YEAST CREAM CONTENT ON THE PELLETIZATION BEHAVIOR OF FUNGI-CHLORELLA SP. SYMBIOSIS SYSTEM	806
<i>Yuchun Zou, Shanshan Luo, Wenkui Li</i>	
ANALYSIS OF POWER GRID CORPORATION'S SUPPLY CHAIN CARBON MANAGEMENT	812
<i>Xiaoxuan Zhang, Song Xue</i>	
ANALYSIS ON THE GROWTH AND EVOLUTION OF THE LANDSCAPE SPACE OF WANZHOU CITY IN CHONGQING "TAKING THE SPACE EVOLUTION OF GAOSUN TANG AS AN EXAMPLE	816
<i>Rudan Xu, Dongmei Zeng, Li Yuan</i>	
INFLUENCE OF RISING OF A RIVER WATER LEVEL ON GROUNDWATER FLOW AND STABILITY OF A LANDSLIDE	820
<i>Yinger Deng, Jing Yu, Shangjun Cai, Xin Peng</i>	
ANALYSES ECOLOGICAL NEW-TOWN PLANNING AND IMPLEMENTATION OF OUR COUNTRY "A CASE STUDY OF SINO-GERMAN ECO-PARK.....	824
<i>Dai Peng, Liang Lin</i>	
WATER ECOLOGICAL COMPENSATION METHODS FOR PROVINCIAL WATER FUNCTION ZONE.....	829
<i>Huihuang Luo, Shanshan Zhao, Wenqi Peng</i>	
OPTIMIZATION OF A₂/O₃-INTEGRATED PROCESS FOR HIGH STANDARD OF RECLAIMED WATER QUALITY IN BEIJING, CHINA.....	833
<i>Hao Wang, Ning Ma, Maosheng Ye, Cao Liu, Qingyi Meng, Qijun Li</i>	

THE STUDY OF CONFIGURATION ANALYSIS IN ART GALLERY BASED ON SPACE SYNTAX “COMPARISON OF WASHINGTON NATIONAL GALLERY AND THE SHANGHAI ART GALLERY	840
<i>Fei Qi, Yi Chen</i>	
RESPONSE OF SUSPENDED SEDIMENT CONCENTRATION TO WATER AND SEDIMENT REGULATION IN YELLOW RIVER ESTUARY	847
<i>Hongling Zhao, Haibo Yang, Yunfei Li, Ruifei Li</i>	
STUDY ON ECOLOGICAL COMPENSATION FOR SHAYING RIVER PROVINCIAL WATER FUNCTION ZONE.....	852
<i>Huihuang Luo, Shanshan Zhao, Wenqi Peng</i>	
EFFECT OF DIAGENESIS ON RESERVOIR DISTRIBUTION IN A SEQUENCE STRATIGRAPHIC FRAMEWORK: EVIDENCE FROM THE FEIXIANGUAN FORMATION (TRIASSIC) IN TIESHAN DISTRICT OF NORTHEASTERN SICHUAN, CHINA.....	856
<i>Yuan Huang, Mingguang Liao, Xiaodie Hu</i>	
TECHNOLOGY OF HIGH RESOLUTION CT STUDY ON THE APPLICATION OF PORE STRUCTURE RESEARCH IN TIGHT OIL RESERVOIR.....	864
<i>Le Sun, Zhizhang Wang, Xinghe Yu, Haiyang Ma</i>	
RESEARCH ON CALIBRATION TECHNIQUE UHF PARTIAL DISCHARGE DETECTOR IN UNIFORMLY ELECTRIC FIELD	875
<i>Wei Zhou, Jun Zhang, Xing Liang, Bin Chen</i>	
DESIGN OF DESERT PLANT MONITORING SYSTEM BASED ON SI446X WIRELESS RADIO FREQUENCY COMMUNICATION	880
<i>Hua Guo, Wenxia Zhang, Haozhi Zhao</i>	

NEW MATERIALS AND ENVIRONMENTAL MATERIALS

NUMERICAL SIMULATION OF EXPANSION OF THE CAVITY IN TUBE-WALL BASED ON TUBE TRANSPORTATION OF ULTRA-CRITICAL CO₂	885
<i>Weihao Wang, Chen Wang</i>	
DURABILITY BEHAVIOR OF PREPAINTED STEEL SHEET FOR CONSTRUCTION.....	890
<i>Huiping Bai, Yuanqiang Tu, Rong Du, Zehong Lei</i>	
EXPERIMENTAL STUDY OF THE FLEXURAL BEHAVIOR OF CONCRETE BEAMS WITH RECYCLED BRICK AGGREGATE	894
<i>Yuanbing Cheng, Guang-Hua Qiao</i>	
STUDY ON PRE-CRACK MARBLE BRAZILIAN DISC CRACK WITH SHPB EXPERIMENT AND NUMERICAL SIMULATION.....	898
<i>Jiang-Feng Ma, Jing-Chun Xu, Xiu-Li Zhang, Yao Rong</i>	
FINITE ELEMENT ANALYSIS OF ADHESIVE STEEL BAR IN CONCRETE UNDER TENSILE LOAD	904
<i>Jianrong Zhang, Ruibin Shu, Zixiang Zhao</i>	
THMS FORMATION POTENTIAL UNDER AMINO ACID CHLORINATION IN A PILOT-SCALE WATER DISTRIBUTION SYSTEM	910
<i>Feilong Dong, Xu Du, Xingbo Chen, Cong Li</i>	
MECHANICAL ANALYSIS OF PRESTRESSED CONCRETE PARTIALLY CABLE-STAYED BRIDGE WITH CORRUGATED STEEL WEBS	916
<i>Wenjuan Liu, Fengping Zhang, Peifeng Li, Rui Zhang, Shui Wan</i>	
SHEAR CAPACITY OF STEEL-CONCRETE COMPOSITE BEAMS WITH HYBRID FULL WEB AND TRUSS SYSTEM	921
<i>Xiayuan Li, Shui Wan, Jiandong Zhang, Wenjuan Liu, Fengping Zhang</i>	
NUMERICAL SIMULATION OF GTM ASPHALT MIXTURE DESIGN PARAMETERS BASED ON DISCRETE ELEMENT	926
<i>Shanqiang Li, Hao Li, Xinquan Xu</i>	
TEMPERATURE STRESS OF ROLLER COMPACTED CONCRETE BASE OF DURABLE ASPHALT PAVEMENT.....	931
<i>Shanqiang Li, Hao Li, Yong Zhou, Guomin Zhang</i>	
INFLUENCE OF EARTHQUAKE ON DEFORMATION AND STABILITY OF CERTAIN A LANDSLIDE.....	938
<i>Yinger Deng, Zhimin Zhao, Xin Peng</i>	
NONLINEAR FINITE ELEMENT ANALYSIS ON FLEXURAL BEARING CAPACITY OF REINFORCED CONCRETE BEAMS STRENGTHENED BY SGFRP.....	942
<i>Zhi Zhang, Qiming Yu</i>	

DISCUSSION ON DESIGN METHOD OF PRESTRESSED CONCRETE FRAME JOINTS WITH SPREAD-ENDED BEAMS	946
<i>Qingwen Liu, Wenxu Li, Qingyun Xu, Chao Lv</i>	
SHEAR PERFORMANCE OF RC BEAMS WITH SPATIAL DISTRIBUTION OF BOND DETERIORATION IN LONGITUDINAL TENSION BARS	951
<i>Xin Xue, Cheng Yang, Hanyin Zhang</i>	
NUMERICAL SIMULATION RESEARCH ON HEAT CHARGING PROCESS OF A NEW TYPE THERMAL ENERGY STORAGE EQUIPMENT	956
<i>Xiaolin Zhu, Zhifeng Wang, Shidong Li</i>	
LEACHING PERFORMANCE OF LOW GRADE ZINC OXIDE ORE IN THE SYSTEM OF NH₃-(NH₄)₂SO₄-H₂O	960
<i>Kaiwei Song, Jingjie Yuan, Peilun Shen, Shoukai Yan, Fei Li, Dianwen Liu</i>	
HYDROLYSIS AND OXIDATION ON ACAC-CU-COSPC-CE CATALYST FOR REMOVAL OF HCN	966
<i>Xuli Jing, Xueqian Wang, Jinhuan Cheng, Shudi Yan, Yingjie Zhang</i>	
REMOVAL OF ELEMENTAL MERCURY AND DIVALENT MERCURY WITH AMMONIUM SULFIDE IN SMELTING GAS CONTAINING SO₂	971
<i>Xueqian Wang, Jianlin Xiong, Langlang Wang, Shudi Yan</i>	
REMOVAL OF ARSINE BY METAL LOADED P-AL₂O₃ ADSORBENTS	978
<i>Shudi Yan, Xueqian Wang, Ziyang Li, Yilong Lin, Yingjie Zhang, Chen Cheng</i>	
RESEARCH PROGRESS OF DENITRIFYING DEPHOSPHATATION IN SBR SYSTEM	984
<i>Liang Shi, Liping Qiu, Shoubin Zhang, Jiabin Wang, Kang Xie</i>	
THE TREATMENT TECHNOLOGY OF RECYCLING SCRAP WIRE AND CABLE	988
<i>Sa Xiao, Wei Xiong, Lijun Wang, Qiaolin Ren</i>	
RESEARCH PROGRESS OF NITROGEN AND PHOSPHORUS REMOVAL IN MUNICIPAL SEWAGE	992
<i>Liquan Lu, Liping Qiu, Shoubin Zhang, Jiabin Wang, Kang Xie</i>	
LEACHING MO AND NI BY DIRECT OXYGEN PRESSURE FROM BLACK SHALE WITH ANY OTHER ONLY WATER	997
<i>Zhi-Gan Deng, Chang Wei, Xing-Bin Li, Cun-Xiong Li, Gang Fan</i>	
EFFECT OF LADLE THERMAL STATE ON THE LF ENDPOINT TEMPERATURE OF MOLTEN STEEL	1003
<i>Yifei Huang, Wei Xiong, Zhiyong Fan</i>	
STUDY ON TEMPERATURE DROP OF MOLTEN STEEL DURING CONVERTER TAPPING	1008
<i>Zhiyong Fan, Wei Xiong, Yifei Huang</i>	
EXPERIMENTAL STUDY ON THE DYNAMIC CAUSTICS OF THE EXPLOSIVE LOAD PRECRACK PROPAGATION LAW	1013
<i>Zhengbin Yan, Jinjing Zuo, Yanbin Wang</i>	
PREDICTION SEPARATION PERFORMANCE OF TEETERED BED SEPARATION FOR COARSE COAL SLIME	1022
<i>Youliang Chen</i>	
SYNTHESIS OF MELAMINE-FORMALDEHYDE-RESIN MICROSPHERES HYBRIDIZED WITH ALUMINUM-HYDROXIDE	1027
<i>Junfu Zhu, Shuzhen Wang, Zhixian Hao</i>	
STUDY ON THE APPLICATION OF MICROWAVE PLASMA TECHNOLOGY IN THE DESULFURIZATION PROCESS	1031
<i>Yuqiong Wu</i>	
EFFECT OF CHAIN LENGTH ON CATALYTIC ACTIVITY IN QUATERNARY AMMONIUM HALIDES CATALYZED CYCLOADDITION OF CO₂ TO PROPYLENE OXIDE	1036
<i>Jinmin Yang, Liping Guo, Chen Zhu, Hongmei Li, Lili Huang</i>	
METAL-ORGANIC FRAMEWORKS/GRAPHENE OXIDE COMPOSITES: PREPARATION AND APPLICATIONS IN DYE ABSORPTION	1040
<i>Yi Zhang, Cheng-An Tao, Jia Song, Jianfang Wang</i>	
PROPERTIES OF EPOXY RESIN COMPOSITES CONTAINING 9,10-DIHYDRO-9-OXA-10-PHOSPHAPHENANTHRENE-10-OXIDE	1044
<i>Jitang Zhang, Wanxi Zhang, Jicai Liang, Ongbo Guan</i>	
THE RESEARCH STATE OF AL₂O₃ CERAMIC TOUGHENING	1050
<i>Feng Shang, Zhenwei Cao, Wei Sun, Wuji Pang, Jie Fu, Bin Qiao</i>	
LAMINATED COMPOSITE WITH 3D-NETWORK GRADED MICROSTRUCTURE FROM TiB₂-BASED CERAMIC TO 42CRMO ALLOY STEEL	1054
<i>Minquan Wang, Jianqiang He, Baohong Han</i>	

BALLISTIC PERFORMANCE OF LAMINATED FUNCTIONALLY GRADED COMPOSITES OF TIB₂-BASED CERAMIC AND TI-6AL-4V ALLOY AGAINST 14.5 MM HEAVY MACHINE GUN AP OF IMPACT VELOCITY 990 M·S⁻¹	1059
<i>Jianqiang He, Minquan Wang</i>	
MICROWAVE-ASSISTED EXTRACTION OF BIOACTIVE SUBSTANCE FROM CLINACANTHUS NUTANS.....	1065
<i>Qun Yu, Weiwen Duan, Bing Liu, Zhenhua Duan, Feifei Shang</i>	
HYDROGENATED AMORPHOUS SILICON CARBIDE THIN FILMS DEPOSITED BY PLASMA-ENHANCED CHEMICAL VAPOR DEPOSITION	1072
<i>Shiguo Yang, Guozhi Wen, Yang Luo, Yi Liang</i>	
PREPARATION AND SYNERGISTIC FLAME RETARDANT EFFECTS OF IRON DOPED LANTHANUM STANNATE IN PP/APP/PER SYSTEM.....	1076
<i>Yunhong Jiao, Ling Shi, Shuanghong Yu, Jiao Pang, Shuxia Ren, Jianzhong Xu</i>	
A STUDY ON THE SPLIT EFFECT OF PROJECTILE DEBRIS ON HONEYCOMB CORE	1083
<i>Zhiyuan Zhang, Runqiang Chi, Baojun Pang, Gongshun Guan</i>	
SINGLE CARBOXYL PORPHYRIN-FUNCTIONALIZED CHITOSAN CAN TAKE SHAPE INTO POLYMER MOLECULE MICROSPHERE	1089
<i>Chenghong Huang, Qinlin Yang, Chennan Chen, Birong Han, Yunfei Li, Fei Xiong</i>	
STUDY ON THE KEY TECHNOLOGY OF 3D PRINTING PURE TITANIUM METAL PORCELAIN TEETH.....	1093
<i>Jinjun Tang, Yulei Li, Yuelai Dai, Xiaoyu Jin, Qun Wang</i>	
INFLUENCE OF COMPOSITION AND BREAKING PROCESS ON MICROSTRUCTURE OF AL-FE-V-SI HEAT RESISTANT ALUMINUM ALLOY	1097
<i>Sumei Li, Jinjun Tang, Liqun Hou, Yulei Li, Zhaohui Gong</i>	
STUDY ON HOT PRESSING TECHNOLOGY OF AL-FE-V-SI QUICK SETTING SHEET POWDER	1101
<i>Sumei Li, Jinjun Tang, Liqun Hou, Yulei Li, Zhaohui Gong</i>	
STUDY ON THE MICROSTRUCTURE PROPERTIES OF TITANIUM METAL CROWN BASE LASER RAPID FORMING.....	1105
<i>Yulei Li, Jinjun Tang, Yuelai Dai, Xiaoyu Jin, Qun Wang</i>	
MICROSTRUCTURE AND INTERACTION AMONG CE-AS-FE AT HIGH TEMPERATURE	1109
<i>Weiyu Yang, Jinzhu Zhang, Shuie Li</i>	
PREPARATION OF ANTISULPHURIC PAPERBOARD AND ITS APPLICATION IN PACKAGING INDUSTRIAL SILVER PRODUCTS	1114
<i>Linlin Yu, Junyan Huang, Huizhong Zhang, Wensheng Wang, Xiaojuan Shi</i>	
MECHANISM OF ULTRASOUND STRENGTHENING PREPARATION NANOMATERIALS	1119
<i>Yong-Guang Bi, Xu-Si Xu, Shi-Ting Deng, Hong Yu, Xue-Wei Chen, Xue-Mei Liu, Hai-Lan Huang</i>	
STUDY ON EXTRACTION METHOD AND OPTIMIZATION OF TOTAL FLAVONOIDS KELP.....	1123
<i>Zhong Wang, Yong-Guang Bi, Xue-Wei Chen, Shi-Ting Deng, Hong Yu, Xue-Mei Liu, Hai-Lan Huang</i>	
RESEARCH ON THE FRACTURE RESISTANCE OF DIFFERENT TYPES OF ASPHALT MIXTURE BASED ON THE OVERLAY TESTER.....	1127
<i>Xirong Wu</i>	
META-ANALYSIS OF RANDOMIZED CONTROLLED TRIAL IN TREATING PRIMARY LIVER CANCER BY FUFANG KUSHEN INJECTION COMBINED WITH TACE.....	1134
<i>Dehui Li, Huanfang Fan, Chunxia Sun</i>	
A RESEARCH ON TIE-DYEING TECHNIQUE AND IT'S APPLICATION TO PUPPET PRODUCTS	1139
<i>Xiaohua Lin</i>	
ULTIMATE STRENGTH OF STEEL PANELS AND STIFFENED PLATES WITH LONGITUDINAL THROUGH-THICKNESS CRACKS UNDER COMPRESSION	1143
<i>Jingjing Du, Ping Yang, Chong Cui, Tian Xia</i>	
THE FINITE ELEMENT ANALYSIS OF HOOK BASED ON WORKBENCH	1150
<i>Guojian Huang, Jin Liu, Min Chen, Qi-Feng Peng</i>	
COMPUTATIONAL SCREENING OF CATIONIC COLLECTORS ADSORPTION ON THE MICA (001) SURFACE.....	1155
<i>Dan Su, Yuelong Liu, Gousheng Liu</i>	
PREPARATION OF MICRO WATER DROPLETS IN MICRO-CHANNEL BY DIGITAL JETTING.....	1159
<i>Zhipeng Zhou, Ge Xu, Chao Liu, Jinsong Zhang</i>	
PREPARATION OF MICRO OIL DROPLETS IN MICRO-CHANNEL BY DIGITAL JETTING.....	1163
<i>Jinsong Zhang, Ge Xu, Chao Liu, Zhipeng Zhou, Liangwen Yan</i>	

DUMMY CHEST PRESSURE EXPERIMENT PARAMETERS OPTIMAL SELECTION AND OPTIMIZATION METHOD BASED ON FEM.....	1167
<i>Kai Ma, Tuan Wang, Xin Lu, Ji-Dong Gao, Tao Xu</i>	
A KIND OF FEM DUMMY MATERIAL PROPERTY PARAMETER CURVE OPTIMIZATION METHOD BASED ON VEHICLE COLLISION SIMULATION	1176
<i>Kai Ma, Xin Lu, Tuan Wang, Ji-Dong Gao, Tao Xu</i>	
FORMATION AND SIMULATION OF CUTTING DIRECTION FRACTURE.....	1184
<i>H. J. Qu, J. H. Yang, G. C. Wang</i>	
STUDY ON PREPARATION AND RHEOLOGICAL PROPERTIES OF SHEAR THICKENING FLUID.....	1188
<i>Bi Meng, Guangyin Xie</i>	
SAFETY ANALYSIS OF POINT SUPPORTED GLASS CURTAIN WALL PANELS	1194
<i>Peng Di, Chenlong Yu</i>	
ANALYSIS OF THE ECONOMIC INSULATION LAYER THICKNESS OF EXTERNAL-WALL IN NORTH HENAN	1199
<i>Peng Di, Peiyao Chen</i>	
DUST CAKE MORPHOLOGY IN FIBROUS FILTRATION OF MONODISPERSE PARTICLES BASED ON FRACTAL ANALYSIS.....	1204
<i>Shixian Wu, Hui Zhu, Can Qi, Haiming Fu</i>	
MORPHOLOGIES OF PARTICLES DEPOSIT ON A SINGLE FIBER DUE TO THE INERTIA INTERCEPTION	1211
<i>Hui Zhu, Can Qi, Haiming Fu, Yanming Kang</i>	
Author Index	