

2nd International Conference on Material Science, Energy Technology and Environmental Engineering (MSETEE 2017)

IOP Conference Series: Earth and Environmental Science
Volume 81

Zhuhai, China
28 – 30 April 2017

Part 1 of 2

ISBN: 978-1-5108-4644-9
ISSN: 1755-1307

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© (2017) by the Institute of Physics
All rights reserved. The material featured in this book is subject to
IOP copyright protection, unless otherwise indicated.

Printed by Curran Associates, Inc. (2017)

For permission requests, please contact the Institute of Physics
at the address below.

Institute of Physics
Dirac House, Temple Back
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481
Fax: 44 1 17 920 0979

techtracking@iop.org

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

CHEMICAL AND MATERIALS SCIENCE

CLONE AND SEQUENCE ANALYSIS OF CU/ZN-SOD GENE FROM SACCHARUM ARUNDINACEUM RETZ.	1
<i>Yanli Yao, Junjun He, Shulian Xing, Xiaowen Hu, Lei Xu, Yang Liu</i>	
VISIBLE LIGHT DRIVEN PHOTOCATALYST BIVO₄ FOR PHOTOCATALYTIC REMOVAL OF NO	5
<i>Liang Wang, Ben Chong, Wentai Wang, Xue Yu, Lijuan Feng, Chunhu Li</i>	
CATALYTIC LIQUEFACTION OF LIGNITE BY SUPERCRITICAL ETHANOL	10
<i>Qianqiu Zhang, Ningmeng Hu, Bin Wang, Rongrong Miao</i>	
THE RESEARCH ON EFFECT OF PURPLE SOIL ENZYME ACTIVITIES BY BIOGAS SLURRY RECIRCULATION AT LARGE-SCALE FARMS	17
<i>Banghao Du, Weiwei Yu, Lun Yang, Jiayue Zhu, Qiaoling Wan, Shaochun Yuan</i>	
PERFORMANCE OF AL-0.1IN-0.1GA-0.1SN-3.0PB AS ANODE FOR AL-AIR BATTERY IN KOH SOLUTIONS	24
<i>Yu Qiong, Zhou Jing, Ma Lan, Xu Wei, Huang Jinghui, Li Mingli</i>	
THERMAL PROPERTIES OF POLYACRYLONITRILE AND LAURIC ACID AND STEARIC ACID COMPOSITE FIBERS	29
<i>G Z Ke, J F Pei, K D Zhu</i>	
KINETICS OF BENZENE-ETHYLENE DICHLORIDE MIXTURE SYSTEM ON ACTIVATED CARBON	33
<i>T Miao, Z X Cheng, H M Tang</i>	
CHARACTERIZATION OF HYDRODYNAMICS AND ELECTROCHEMICAL TREATMENT OF DYE WASTEWATER IN TWO TYPES OF TUBULAR ELECTROCHEMICAL REACTORS	37
<i>Xiaotao Guo, Shijie You</i>	
STUDY ON DESTRUCTION OF CYANIDE TREATED WITH OXIDIZED DECONTAMINANTS	42
<i>Xiaoyu Liu, Lianyuan Wang, Haiyan Zhu, Mengmeng Ma, Yawei Cai</i>	
STUDY ON THE CHARACTERISTICS OF STRAW FERMENTATION BY BACILLUS MEGATERIUM MYB3	50
<i>Bing Bai, Chang-Guo Yan, Guang-Chun Li</i>	
THE SYNTHESIS OF ZSM-5 USING NATURAL CLAY OF QINGHAI SALT LAKE AND ITS PB(II) ADSORPTION	57
<i>K Feng, F Zhang, S F Li, C Y Sun</i>	
THE ANTIOXIDANT ACTIVITIES OF LITCHI PERICARP AMONG DIFFERENT CULTIVARS	63
<i>C Y Feng, Y G Liu, F Y Ma, F Qiong, X M Zhang</i>	
GREEN SYNTHETIC NANO IRON OF SUAEDA SALSA AND REMOVAL OF HEXAVALENT CHROMIUM FROM WATER	68
<i>Xiaolan Chen, Guoqing Lin, Wenjuan Li, Honglu Pang, Xiaoyun Yan, Xinyu Yan</i>	
SYNTHESIS AND CHARACTERIZATION OF L-CYSTEINE-MODIFIED ZNSE:CO/ZNSE QUANTUM DOTS	73
<i>Tao Huang, Xiuting Fang, Peifeng Chen, Chunhong Qiu, Fenghua Huang</i>	
INFLUENCE OF AUTOCLAVED PRETREATMENT ON THE PROPERTIES OF PHOSPHOGYPSUM-BASED COMPOSITE BINDERS	79
<i>Tingyan Ren, Rong Xi, Jiakuan Yang</i>	
STUDY OF MECHANICAL PROPERTIES OF A NEW TYPE COMPOSITE SLAB	87
<i>Juntao Wang, Huihui Zou, Xintang Wang</i>	
EXPERIMENTAL RESEARCH ON MECHANICAL PERFORMANCE OF THE LIGHTWEIGHT COMPOSITE SLABS	93
<i>Huihui Zou, Juntao Wang, Xintang Wang</i>	
STUDY ON NATURAL SOIL COAGULANTS FOR POINT-OF-USE DRINKING WATER TREATMENT	99
<i>Xuejiao Qi, Hongtao Wang, Eyasu Tarekegn Getahun, Muxi Luo, Zuohong Chen, Haowen Duan, Tongxuan Ren, Yi-Nan Wu, Fengting Li</i>	

INFLUENCE OF ROTATIONAL SPEED ON FRICTION AND WEAR PROPERTIES OF 35CRMO/GCR15 FRICTION COUPLING	109
<i>Jian-Ji Wang, Ning Mi, Jian-Long Huang</i>	
EXTRACTION CONDITIONS ON THE DPPH SCAVENGING ABILITY OF THE EXTRACT OF MIRACLE FRUIT LEAVES	116
<i>Yu-Ge Liu, Qiong Fu, Fei-Yue Ma, Xiu-Mei Zhang</i>	
THE EXPERIMENTAL STUDY OF THE ADSORPTION BEHAVIOR OF CD²⁺ ON MANGANESE DIOXIDES	122
<i>Shou-Gang Yan, Zi-Bin Shen</i>	
PT/N CO-DOPED TITANIUM DIOXIDE VISIBLE-LIGHT-ACTIVE PHOTO-CATALYST: PREPARATION AND CHARACTERIZATION	128
<i>Yan Wang, Yungeng Zhang, Peichen Li</i>	
APPLICATION OF DIFFERENT ACTIVATED ATTAPULGITES TO PURIFY PHOSPHATE CONTAMINATED WASTEWATER	135
<i>Fangqun Gan, Jien Hu, Rong Tang, Pinzhu Qin, Xiaoshuai Hang</i>	
ELECTRODEPOSITION OF ALUMINUM AND ALUMINUM-MAGNESIUM ALLOYS FROM ORGANIC SOLVENT SYSTEM	142
<i>H. M. Kan, X. D. Wei, X. J. Feng, N. Zhang, X. Y. Wang, H. B. Long</i>	
GROUTING REINFORCEMENT MECHANISM AND EXPERIMENTAL STUDY OF CEMENT QUICK-SETTING SLURRY INFILTRATION	147
<i>Hongbo Wang, Qingsong Zhang, Rentai Liu, Shucui Li, Lewen Zhang, Yanan Liu, Dazhuang Gui</i>	
FIRST-PRINCIPLES STUDY OF THE INTERACTION BETWEEN REDUCED GRAPHENE OXIDE AND NICKEL HYDROXIDE	160
<i>J. H. Yao, Z. L. Yin, Y. W. Li</i>	
CRYSTAL ADHESION AND INTERNALIZATION OF SUB-MICRON COM AND COD CRYSTALS ON HUMAN KIDNEY PROXIMAL TUBULAR EPITHELIAL CELLS	166
<i>C. Y. Rao, L. S. Huang, J. M. Ouyang</i>	
SYNTHESIS AND CHARACTERIZATION OF POROUS MAGNESIUM ALUMINATE SPINEL BY HYDROTHERMAL PROCESS	173
<i>Jinxia Duan, Shengbo Lu, Xiuhui Wang, Jianlong Yin, Hong Gao, Zhenguo Su, Jinlong Yang</i>	
TOXICITY OF SUB-MICRON AND MICRON CALCIUM OXALATE MONOHYDRATE ON RENAL EPITHELIAL CELLS	180
<i>L. H. Huang, J. M. Wang, J. M. Ouyang</i>	
THE PYROLYSIS BEHAVIOR OF MODIFIED POLY-M-PHENYLENE TEREPHTHALAMIDE BY 4, 4'-DIAMINO DIPHENYL SULFONE	186
<i>L. Wang, M. Wang, Y. W. Zhang, J. X. Zhao, Z. M. Hu, X. F. Wang</i>	
HOT DEFORMATION BEHAVIOR OF 1CR12N13MO2VN MARTENSITIC STAINLESS STEEL	192
<i>Xiaomao He, Peng Jiang, Leyu Zhou, Chao Chen, Xiaochun Deng</i>	
MODIFICATION AND SECONDARY PACKAGING OF NA₂SO₄ 10H₂O	201
<i>Liguang Xiao, Mingyue Zhao</i>	
EVALUATION AND ANALYSIS OF UNCERTAINTY IN TENSILE EXPERIMENT RESULTS OF MODIFIED PPR AT ELEVATED TEMPERATURE	207
<i>Yu Xiang, Su Zhonghua, Leng Jinhua, Yun Teng</i>	
ANALYSIS OF CHEMICAL COMPONENTS AND SPECTRAL CHARACTERISTICS OF ROCK	214
<i>Wei Wang, Jinlin Wang, Kefa Zhou, Zhixin Zhang, Shuguang Zhou, Shihui Du-Qian</i>	
SIMULTANEOUS REMOVAL OF HG⁰ AND HCN FROM THE YELLOW PHOSPHORUS TAIL GAS	219
<i>Yanan Li, Xueqian Wang</i>	
MICROSTRUCTURE RELATED PROPERTIES OF GADOLINIUM FLUORIDE FILMS DEPOSITED BY MOLYBDENUM BOAT EVAPORATION	226
<i>Y. H. Chang, C. Y. Wang, L. Q. Qi, H. Liu</i>	
EFFECTS OF DIFFERENT DEFICIT IRRIGATION ON SUGAR ACCUMULATION OF PINEAPPLE DURING DEVELOPMENT	231
<i>Haiyan Feng, Liqing Du, Shenghui Liu, Xiumei Zhang</i>	
EFFECTS OF DIFFERENT PLANT GROWTH REGULATORS ON BLUEBERRY FRUIT QUALITY	238
<i>X. C. Zhang, Y. Q. Zhu, Y. N. Wang, C. Luo, X. Wang</i>	
A TONOPLAST INTRINSIC PROTEIN IN GARDENIA JASMINOIDES	244
<i>Lan Gao, Hao-Ming Li</i>	
GARDENIA JASMINOIDES ENCODES AN INHIBITOR-2 PROTEIN FOR PROTEIN PHOSPHATASE TYPE 1	250
<i>Lan Gao, Hao-Ming Li</i>	

MICROSTRUCTURE EVOLUTION OF CLAM STEEL DURING CREEP AT 923K	256
<i>S. Ye, F. Zhao, F. Huang, J. He, J. L. Wang</i>	
RESEARCH ON APPLICATION OF CARBON FIBER HEATING MATERIAL IN CLOTHING	265
<i>Huanhong Yang</i>	
STUDY ON THICKNESS DISTRIBUTION OF THERMOFORMED MEDICAL PVC BLISTER	270
<i>Yiping Li</i>	

RESOURCES AND ENVIRONMENT

ANALYSIS OF THE LACK OF SCIENTIFIC AND TECHNOLOGICAL TALENTS OF HIGH-LEVEL WOMEN IN CHINA	277
<i>Wang Lin</i>	
HOURLY VARIATIONS OF WATER-SOLUBLE IONS UNDER DIFFERENT SAND AND DUST WEATHER PROCESSES IN LANZHOU, CHINA	283
<i>Guangyu Zhai, Guorong Chai, Haifeng Zhang</i>	
ANALYSIS OF ONE DIMENSION MIGRATION LAW FROM RAINFALL RUNOFF ON URBAN ROOF	289
<i>Chen Weiwei</i>	
CARBON FLOW ANALYSIS AND CARBON EMISSION REDUCTION OF FCC IN CHINESE OIL REFINERIES	294
<i>Fengrui Jia, Na Wei, Danzhu Ma, Guangxin Liu, Ming Wu, Qiang Yue</i>	
CONSTRUCTING EARLY WARNING INFORMATION RELEASE SYSTEM IN TOWNS ENTERPRISE CLEAN PRODUCTION	299
<i>Huixin Yuwen, Xueqiu He, Xinming Qian, Mengqi Yuan</i>	
ECOLOGICAL RISK STUDY ON SUBACUTE TOXICOLOGY EXPERIMENT OF STREPTOMYCIN WASTEWATER FOR ZEBRAFISH	306
<i>Qing Shi, Hongyan Shen</i>	
ANALYSIS ON THE LAW OF SEDIMENTS DEPOSITION IN THE THREE GORGES RESERVOIR	311
<i>Zhou Yinjun, Sun Jie, Zhang Yuqin, Yan Xia</i>	
RESEARCH STATUS OF GEOTHERMAL RESOURCES IN CHINA	317
<i>Lincheng Zhang, Guang Li</i>	
THE LIFE CYCLE EVALUATION MODEL OF EXTERNAL DISECONOMY OF OPEN-LOOP SUPPLY CHAIN	321
<i>Qian Liu, Tianjun Hu</i>	
A CASE STUDY ON DUNE RESPONSE TO INFRAGRAVITY WAVES	328
<i>Wenshan Li, Hui Wang, Huan Li, Shuangquan Wu, Cheng Li</i>	
BOHAI AND YELLOW SEA OIL SPILL PREDICTION SYSTEM AND ITS APPLICATION TO HUANGDAO '11.22' OIL SPILL INCIDENT	334
<i>Huan Li, Yan Li, Cheng Li, Wenshan Li, Guosong Wang, Song Zhang</i>	
DECOUPLING OF OIL USE FROM ECONOMIC GROWTH IN NORTHEAST CHINA	342
<i>Guangxin Liu, Ming Wu, Fengrui Jia, Xin Fu, Qiang Yue</i>	
SAFETY EVALUATION OF CHINESE NICKEL RESOURCES BASED ON ANALYTIC HIERARCHY PROCESS AND FUZZY COMPREHENSIVE EVALUATION	348
<i>Zhifeng Lin</i>	
EFFECTS OF SOIL MOISTURE ON VEGETATION INVASION INTO TRANSITION ZONES BETWEEN WINDWORD SLOPES OF ACTIVE DUNES AND INTERDUNE LOWLANDS	354
<i>Shou-Gang Yan, Xiao-Dong Li</i>	
THE NATURAL RESOURCES SUPPLY INDEXES STUDY OF THE PIG BREEDING SCALE IN CHINA	364
<i>Bi-Bin Leng, Qi-Zhen Zhang, Xue-Qiang Ji, Yue-Feng Xu</i>	
RESEARCH ON AND APPLICATION TO BH-HTC HIGH DENSITY CEMENTING SLURRY SYSTEM ON TARIM REGION	369
<i>Song Yuanhong, Gao Fei, He Jianyong, Yang Qixiang, Yang Jiang, Liu Xia</i>	
MODELLING WATER UPTAKE BY VARIOUS ROOT SYSTEMS IN A CLAY LOAM SOIL UNDER A HIGH TRANSPIRATION DEMAND	373
<i>M Tan, Z Hu, Y Yu, K Zhang</i>	
SCREENING IDENTIFICATION OF AEROBIC DENITRIFICATION BACTERIA WITH HIGH SOIL DESALINIZATION CAPACITY	377
<i>H Jin, H Chen, H Jin, Y Qian, K Zhang</i>	

NUMERICAL SIMULATION OF SUSPENDED SEDIMENT TRANSPORTATION BASED ON PARTICLE TRACKING MODEL	382
<i>W W Yao, C Ying, J B Mu</i>	
ENERGY CONSUMPTION IN RURAL CHINA: ANALYSIS OF RURAL LIVING ENERGY IN BEIJING	388
<i>Yu Yang, Liu Yifang, Zhu Wei</i>	
STUDY ON EVALUATION OF ENVIRONMENTAL CARRYING CAPACITY OF PIG BREEDING IN CENTRAL CHINA	393
<i>Bi-Bin Leng, Wei Liu, Xue-Qiang Ji, Qi-Zhen Zhang</i>	
THE CONNOTATION INTERPRETATION OF HIGH-EFFICIENCY AGRICULTURE UNDER THE PERSPECTIVE OF A COMBINED AGRICULTURE WITH TOURISM	398
<i>Jie Zhou, Feng-Tai Zhang, Yuan-Jin Gai, Bao-Kun Deng, Ji-Xin Shao, You-Zhi An</i>	
PREPARATION OF BISMUTH TITANATE/CALCIUM ALGINATE COMPOSITE BEAD AND ITS PHOTOCATALYTIC DEGRADATION OF DYE POLLUTANTS	403
<i>Huihui Gan, Nanyang Dong, Linxiao Lu, Yan Fu, Huining Zhang, Yongxin Qian, Kefeng Zhang, Huixia Jin</i>	
RESEARCH PROGRESS OF EXTREME CLIMATE AND ITS VEGETATION RESPONSE	408
<i>Xiaolin Cui, Xiaoqing Wei, Tao Wang</i>	
COMBINED APPLICATION OF NATURAL SUNLIGHT AND HYDROGEN PEROXIDE ON THE REMOVAL OF HARMFUL CYANOBACTERIA	412
<i>D H Wang, L Li, C W Zhu, Z Y Wang, P Xie</i>	
RESEARCH ON THE EVOLUTION OF THE QUANTITY AND QUALITY OF INBOUND TOURISM FLOW IN HENAN PROVINCE	421
<i>Jun-Yuan Zhao</i>	
A STUDY ON SPATIAL-TEMPORAL DISTRIBUTION CHARACTERISTICS OF PM_{2.5} CONCENTRATIONS IN NANJING DURING 2012-2016	431
<i>Gao Shilin, Yang Li, Dong Shuzhou, Sun Wei, Zha Kecheng, Zhao Jindong</i>	
FRACTAL ANALYSIS OF ACOUSTIC EMISSION PARAMETER SERIES OF COAL WITH DIFFERENT PROPERTIES UNDER UNIAXIAL LOADING	437
<i>Huiming Yang</i>	
RESEARCH ON THE ENERGY AND ECOLOGICAL EFFICIENCY OF MECHANICAL EQUIPMENT REMANUFACTURING SYSTEMS	442
<i>Junli Shi, Jinshi Cheng, Qinyi Ma, Yajun Wang</i>	
RESEARCH ON THE DEVELOPMENT OF GREEN FINANCE IN SHENZHEN TO BOOST THE CARBON TRADING MARKET	447
<i>Jiping Zhou, Siqin Xiong, Yucheng Zhou, Zijian Zou, Xiaoming Ma</i>	
RESEARCH ON UPGRADE PATH TO TECHNOLOGY INNOVATION OF RESOURCE-BASED SMES IN CHINA	452
<i>Xu Jie</i>	
MULTI-INDICATOR EVALUATION SYSTEM FOR BROADSWORD, ROD, SWORD AND SPEAR ATHLETES BASED ON ANALYTIC HIERARCHY PROCESS	457
<i>Lin Luo</i>	
TEMPORAL AND SPATIAL ANALYSIS OF PRECIPITATION IN GUIZHOU BASED ON TRMM 3B42 SATELLITE DATA	466
<i>Jianfeng Wu, Fengtai Zhang, Guangjie Cao, Wei Li, Xuemei Zhao</i>	
COMPARISON OF TWO CENTENNIAL-SCALE SEA SURFACE TEMPERATURE DATASETS IN THE REGIONAL CLIMATE CHANGE STUDIES OF THE CHINA SEAS	472
<i>Wang Qingyuan, Wang Yanan, Liu Yiwei</i>	
TWO TYPES OF COAL SAMPLES' DYNAMIC MECHANICAL PROPERTIES UNDER IMPACT LOADING	477
<i>Zhongqing Li, Zegong Liu, Chaomin Mu, Wenqing Zhang</i>	
NANOCRYSTALLINE ZNO DOPED LANTHANIDE OXIDE: AN EFFICIENT PHOTOCATALYST FOR THE DEGRADATION OF DIESEL POLLUTANT IN SEAWATER UNDER VISIBLE LIGHT IRRADIATION	484
<i>Xiaocai Yu, Qiuyi Ji, Jian Zhang, Zhiwei Nie, Jinghua Liu, Liping Wang</i>	
SCREENING AND EVALUATION OF MICROORGANISM SPECIES IN OIL RECOVERY IN JI 45 BLOCK	492
<i>X Y Lei, J You, Y B Li, R Wang, X K Shan, X Zhou</i>	
LINKING LARGE-SCALE BEAN-RICE ROTATION WITH INCREASED RICE YIELD IN REMOTE SENSING EXPERIMENT	499
<i>Ling Sun, Zesheng Zhu</i>	

EXAMINING COTTON IN ROTATION WITH RICE AND COTTON IN ROTATION WITH OTHER CROPS USING NATURAL EXPERIMENT	503
<i>Ling Sun, Zesheng Zhu</i>	
STUDY ON EFFECT OF TEMPERATURE AND HUMIDITY ON THE CO₂ CONCENTRATION MEASUREMENT	507
<i>Yuliang Liu, Xiang Ni, Yuanxi Wu, Wei Zhang</i>	
POLICIES, STANDARDS AND MANAGERMENTS ASSOCIATED WITH PG UTILIZATION	512
<i>L M Chuan, H G Zheng, J J Zhao, A L Wang, S F Sun</i>	
ANALYSIS ON THE SPATIOTEMPORAL CHARACTERISTICS OF WATER QUALITY AND TROPIC STATES IN TIEGANG RESERVOIR: A PUBLIC DRINKING WATER SUPPLY RESERVOIR IN SOUTH CHINA	516
<i>Yun-Long Song, Jia Zhu, Wang Li, Yi Tao, Jin-Song Zhang</i>	
THE CHARACTERISTICS OF SOIL AND WATER LOSS IN PINUS MASSONIANA FOREST IN QUATERNARY RED SOIL AREA OF SOUTH CHINA	528
<i>Yuejun Song, Yanhe Huang, Yang Jie</i>	
IS OIL CONSUMPTION CONSTRAINED BY INDUSTRIAL STRUCTURE? EVIDENCE FROM CHINA	534
<i>Y Q Jia, H M Duan</i>	
EMPIRICAL ANALYSES ON THE DEVELOPMENT TREND OF NON-FERROUS METAL INDUSTRY UNDER CHINA'S NEW NORMAL	541
<i>C X Li, C X Liu, Q L Zhang</i>	
THE STUDY ON THE OIL-WATER DISTRIBUTION RULES OF PUTAOHUA RESERVOIRS IN Z BLOCK	547
<i>Xi Chen</i>	
NUMERICAL STUDY ON EFFECTS OF COASTLINE CHANGE ON SALINITY VARIATION IN THE LIAO RIVER ESTUARY	551
<i>Xin Li, Xue-Qing Zhang, Yang Zhao, Qing-Zhen Li, Jin-Zhen Yu</i>	
SMART CITY PLANNING UNDER THE CLIMATE CHANGE CONDITION	557
<i>Dexiang Deng, Yue Zhao, Xi Zhou</i>	
PESTEL MODEL ANALYSIS AND LEGAL GUARANTEE OF TOURISM ENVIRONMENTAL PROTECTION IN CHINA	560
<i>Xian Zhiyong</i>	
STUDY ON GAS PERMEABILITY COEFFICIENT MEASUREMENT OF COAL SEAM BY RADIAL FLOW METHOD	566
<i>Shuchuan Zhang</i>	
DIFFERENT STAGES OF CD'S TRANSPORTING PROCESS IN WATERS IN JIAOZHOU BAY	571
<i>Dongfang Yang, Zhenqing Miao, Haixia Li, Longlei Zhang, Qi Wang</i>	
THE CHANGES OF CD SOURCES IN JIAOZHOU BAY 1979-1983	577
<i>Dongfang Yang, Qiang Wang, Sixi Zhu, Zhikang Wang, Chunhua Su</i>	
TRANSPORT PROCESS AND BLOCK DIAGRAM OF CD IN JIAOZHOU BAY	581
<i>Dongfang Yang, Linzhen Wei, Ming Feng, Mei Chen, Zhenqing Miao</i>	
APPLICATION OF DATA MINING TO THE ANALYSIS OF METEOROLOGICAL DATA FOR AIR QUALITY PREDICTION: A CASE STUDY IN SHENYANG	586
<i>Chang Zhao, Guojun Song</i>	
CHANGING CHARACTERISTICS OF LAND USE AND ECOLOGICAL SERVICE VALUE IN THE WATER SOURCE REGION OF THE MIDDLE ROUTE OF SOUTH-TO-NORTH WATER TRANSFER PROJECT	591
<i>Jian Tang, Wenliang Zhai, Huiqun Cao</i>	
EXPERIMENTATION ON THE ANAEROBIC FILTER REACTOR FOR BIOGAS PRODUCTION USING RURAL DOMESTIC WASTEWATER	596
<i>John Leju Celestino Ladu, Xi-Wu Liu, Zhaoping Zhong</i>	
UTILIZATION POTENTIAL EVALUATION OF PLANT RESOURCES IN THE DRY-HOT VALLEY OF JINSHA RIVER	603
<i>Rong Xi, Naizhong Xu, Shengxiang Liu, Tingyan Ren</i>	
MICROSTRUCTURE EVOLUTION FROM X-CT MEASUREMENTS FOR CONCRETE/MORTAR UNDER MULTI-ACTIONS OF COMPOSITE SALTS DRY-WET CYCLES AND LOADING	610
<i>Yanjuan Chen, Jianming Gao, Daman Shen</i>	
ANALYSIS ON ECONOMIC CARRYING CAPACITY INDEX OF PIG BREEDING IN CHINA	619
<i>Bi-Bin Leng, Jia-Ling Liu, Yue-Feng Xu</i>	

DIFFERENTIATION CHARACTERISTICS AND SOURCE ANALYSIS OF HEAVY METALS IN TYPICAL BROWN SOIL UNDER DIFFERENT VEGETATION	624
<i>Zhicheng Dong, Lina Zhang, Xueshuang Li, Shuangyan Lv, Shijie He, Ying Liu, Xuanxuan Ma</i>	
ENVIRONMENT CONSTRUCTION AND BOTTLENECK BREAKTHROUGH IN THE IMPROVEMENT OF WISDOM EXHIBITION	634
<i>Jiankang Zhang</i>	
SENSITIVITY ANALYSIS OF GEOSTATISTICAL APPROACH TO RECOVER POLLUTION SOURCE RELEASE HISTORY IN GROUNDWATER	639
<i>Y. Q. Long, T. T. Cui, W. Li, Z. P. Yang, Y. W. Gai</i>	
EVALUATION RESEARCH ON NATURAL RESOURCE SUPPLY INDEX OF THE PIG BREEDING SCALE IN THE SIX PROVINCES OF CENTRAL CHINA	651
<i>Bi-Bin Leng, Xue-Qiang Ji, Li-Hua Huang</i>	
OPTIMIZATION OF THREE-ECHOLON INVENTORY PROJECT FOR EQUIPMENT SPARE PARTS BASED ON SYSTEM SUPPORT DEGREE	655
<i>Song-Shi Shao, Min-Zhi Ruan</i>	

PART 2

RESEARCH ON THE DEVELOPMENT FOR EMERGING INDUSTRIES IN NANTONG UNDER THE NATIONAL STRATEGY	664
<i>Zhongnian Li, Yan Qin, Lijuan Zhang, Tianying Li, Qing Wang</i>	
EFFECTS OF DIFFERENT COMBINATIONS OF "BAOSHILING" ON SOIL PHYSICAL AND CHEMICAL PROPERTIES OF HUANGGUOGAN	669
<i>Y. H. Xu, Z. H. Wang, B. Xiong, X. Qiu, L. Liao, G. C. Shun, S. J. Huang, Z. X. Dong, X. Y. Liu, L. J. Xi</i>	
THE STUDY ON DYNAMIC CHARACTERISTICS OF SOIL EROSION IN YUYAO CITY OF ZHEJIANG PROVINCE	674
<i>Yefeng Zou, Jinjuan Zhang, Gang Li, Zhaowei Shen, Fangchun Lu, Xijiong Zhou</i>	
EXPERIMENTAL STUDY ON THE EFFECT OF VOLCANIC RESIDUE ON THE PERFORMANCE OF RECYCLED LIGHTWEIGHT AGGREGATE CONCRETE	680
<i>Li-Guang Xiao, Ji-Heng Li, Qing-Shun Liu</i>	
ECOLOGICAL STOICHIOMETRY OF C, N AND P ON DIFFERENT TIME ENCLOSED IN DESERTIFICATION STEPPE SOIL	685
<i>W. Z. Yang, Y. Jiao, Y. Q. Jia</i>	
EVALUATION AND COUNTERMEASURES ON SUSTAINABLE DEVELOPMENT OF NICKEL RESOURCES IN CHINA	691
<i>Zhifeng Lin</i>	

ARCHITECTURE AND ENVIRONMENT

MECHANICAL ANALYSIS ABOUT THE INFLUENCE OF TUNNEL EXCAVATION ON VERTICAL EFFECT OF ADJACENT BRIDGE PILE	698
<i>Xiaoyan Tian</i>	
THE RECONSTRUCTION OF GREYFRIARS KIRKYARD'S SACRED SPACE: FROM THE FRANCISCAN ORDER'S "DIVINITY HEAVEN GARDEN" INTO THE PROTESTANT'S "THE SACRED CEMETERY"	705
<i>Xin Li, Lei Cao, Yifeng Ma</i>	
EVALUATION ON THERMAL ENVIRONMENT AND ENERGY CONSUMPTION OF A DEMONSTRATION BUILDING IN NINGQIANG	715
<i>Chen Wang, Jinghui Ma</i>	
GEOMETRIC ERRORS MEASUREMENT FOR COORDINATE MEASURING MACHINES	719
<i>Fangyu Pan, Li Nie, Yuewei Bai, Xiaogang Wang, Xiaoyan Wu</i>	
THE RESEARCH OF PRESS DROP OF COMPRESSED AIR FOAM FLOW THROUGH THE BEND	723
<i>Y Chen, T Chen, C Hu, X C Fu, Z M Bao, X Z Zhang, J J Xia</i>	
STUDY OF SLEEPER'S IMPACT ON THE DEEP-WATER PIPELINE LATERAL GLOBAL BUCKLING	728
<i>Wenbin Liu, Bin Li</i>	
STUDY ON FINNED PIPE PERFORMANCE AS A GROUND HEAT EXCHANGER	733
<i>Qinglong Lin, Jinghui Ma, Lei Shi</i>	

URBAN LANDSCAPE ARCHITECTURE DESIGN UNDER THE VIEW OF SUSTAINABLE DEVELOPMENT	737
<i>Weilin Chen</i>	
THE CONCRETE TECHNOLOGY OF POST POURING ZONE OF RAFT FOUNDATION OF HONGYUN BUILDING B TOWER.....	742
<i>Suhua Yin, Liu Yu, Yanli Wu, Ying Zhao</i>	
THE FOUNDATION MASS CONCRETE CONSTRUCTION TECHNOLOGY OF HONGYUN BUILDING B TOWER RAFT	746
<i>Yu Liu, Suhua Yin, Yanli Wu, Ying Zhao</i>	
THE RAFT FOUNDATION REINFORCEMENT CONSTRUCTION TECHNOLOGY OF HONGYUN BUILDING B TOWER.....	752
<i>Yu Liu, Suhua Yin, Yanli Wu, Ying Zhao</i>	
RESEARCH ON THE INFLUENCE OF SIZE EFFECT FOR THE MECHANICAL PERFORMANCE OF GFRP TUBE CONCRETE STEEL TUBE COMPOSITE COLUMN UNDER AXIAL COMPRESSION.....	756
<i>Wen Li, Tong Wang, Yu Na</i>	
DYNAMIC RESPONSES OF CONCRETE-FILLED STEEL TUBULAR MEMBER UNDER AXIAL COMPRESSION CONSIDERING CREEP EFFECT	762
<i>X T Jiang, Y D Wang, C H Dai, M Ding</i>	
ANALYSIS OF DYNAMIC ACCUMULATIVE DAMAGE ABOUT THE LINING STRUCTURE OF HIGH SPEED RAILWAY'S TUNNEL BASED ON ULTRASONIC TESTING TECHNOLOGY.....	768
<i>Xiang-Qiu Wang, Huojun Zhang, Wen-Xi Xie</i>	
FINITE ELEMENT ANALYSIS AND STATIC LOAD TEST FOR GUYED FORM TRAVELLER OF CABLE-STAYED BRIDGE.....	773
<i>Xijun Ye, Bingcong Chen, Zhuo Sun</i>	
ANALYSIS ON THE FORMS AND REGIONAL CHARACTERISTICS OF THE TRADITIONAL DWELLINGS IN MOUNTAINOUS CENTRAL SHANDONG PROVINCE.....	779
<i>Haiyong Lu, Haiyan Hu, Lei Miao, Bo Zhou</i>	
CAUSES AND CONSEQUENCES OF RURAL-URBAN MIGRATION: THE CASE OF JUBA METROPOLITAN, REPUBLIC OF SOUTH SUDAN.....	786
<i>Lomoro Alfred Babi Moses, Xiong Guogping, Leju Celestino Ladu John</i>	
FROM "COMPREHENSIVE TRANSPORTATION HUB" TO "CITY NEW SITTING ROOM"--- OVERALL THE DESIGN ABOUT JINAN EAST DISTRICT COMPREHENSIVE TRANSPORTATION HUB	794
<i>Jie Lv, Jianmin Guo, Jin Li</i>	
RESEARCH ON DETERMINATION OF THE SCALE OF PARKING SPACE ON HIGH SPEED RAIL STATION, USING EAST JI'NAN STATION AS AN EXAMPLE	802
<i>Jie Lv, Jianmin Guo, Yibin Zhang</i>	
DAMAGE DETECTION OF SIMPLY SUPPORTED REINFORCED CONCRETE BEAM BY S TRANSFORM	807
<i>Ning Liu, Jiaxin Xi, Xuebing Zhang, Zhenzhou Liu</i>	
CHLORIDE ION EROSION EXPERIMENT RESEARCH IN CRACKED CONCRETE	813
<i>Shu Ting, Li Yang</i>	
THE INFLUENCE OF CONSTRUCTION MEASUREMENT AND STRUCTURE STOREY ON SEISMIC PERFORMANCE OF MASONRY STRUCTURE.....	820
<i>Baitao Sun, Hexian Zhao, Peilei Yan</i>	
NUMERICAL SIMULATION OF STEEL-CONCRETE COMPOSITE VIRENDER BEAM	826
<i>Qinggui Wu, Xinming Cao, Quanrui Luo</i>	
EXPERIMENTAL STUDY ON WAVE FORCE OF ANTI-L-SHAPED PARAPET OF INCLINED BREAKWATER.....	831
<i>Xingkai Pan, Jingsong Gui, Ding Chen</i>	
CREEP BEHAVIOR OF PRECAST SEGMENTAL BOX GIRDER BRIDGE	836
<i>Dai Xihua, Liu Liangfang, Xian Rong</i>	
APPLICATION OF BIM TECHNOLOGY IN PREFABRICATED BUILDINGS.....	841
<i>Guo Zhanglin, Gao Si, Liu Jun-E</i>	
RESEARCH FOR DIFFERENT CRACK WIDTH CALCULATION METHODS OF CONCRETE-LINED STEEL PRESSURE PIPE.....	847
<i>Chuang Xu, Yang Li</i>	
A NEW APPROACH OF EVALUATING THE DAMAGE IN SIMPLY-SUPPORTED REINFORCED CONCRETE BEAM BY LOCAL MEAN DECOMPOSITION (LMD)	852
<i>Xuebing Zhang, Ning Liu, Jiaxin Xi, Yunqi Zhang, Wenchun Zhang, Peipei Yang</i>	

RESEARCH ON THE SPACE ARCHITECTURE BASED ON FRACTAL THEORY	859
<i>Li Jing-Ming</i>	
THE PREFABRICATED BUILDING RISK DECISION RESEARCH OF DM TECHNOLOGY ON THE BASIS OF ROUGH SET	865
<i>Z L Guo, W B Zhang, L H Ma</i>	
SEISMIC ANALYSIS OF SERIES ISOLATION SYSTEM BASED ON GEOMETRY NONLINEARITY	870
<i>Z D Lin, H Shi, L Xue</i>	
FULL-SCALE MONITORING SYSTEM FOR STRUCTURAL PRESTRESS LOSS BASED ON DISTRIBUTED BRILLOUIN SENSING TECHNIQUE.....	879
<i>Lan Chunguang, Zhou Liguang, Huo Zhiyu</i>	
MODIFIED FLY ASH FROM MUNICIPAL SOLID WASTE INCINERATION AS CATALYST SUPPORT FOR MN-CE COMPOSITE OXIDES	885
<i>Xiongbo Chen, Ying Liu, Ying Yang, Tingyan Ren, Lang Pan, Ping Fang, Dingsheng Chen, Chaoping Cen</i>	
BUILDING INFORMATION MODELLING (BIM) AFTER TEN YEARS: MALAYSIAN CONSTRUCTION PLAYERS' PERCEPTION OF BIM.....	892
<i>A Ahmad Latiffi, J Brahim, M S Fathi</i>	
NUMERICAL SIMULATION ON BEHAVIOUR OF TIMBER-CONCRETE COMPOSITE BEAMS IN FIRE	899
<i>Hao Du, Xiamin Hu, Bing Zhang, Yao Minli</i>	
STUDY ON ECOLOGICAL CONSERVATION PLANNING OF XIANYUE PARK IN XIAMEN CITY, CHINA	904
<i>Naizhong Xu, Rong Xi, Tingyan Ren, Peng Zhao, Zeyao Chuai</i>	
THERMAL DYNAMIC SIMULATION OF WALL FOR BUILDING ENERGY EFFICIENCY UNDER VARIED CLIMATE ENVIRONMENT	912
<i>Xuejin Wang, Yujin Zhang, Jing Hong</i>	
ANALYSIS AND DISCUSSION ON POST-CONSTRUCTION SETTLEMENT OF SOFT SOIL FOUNDATION TREATMENT TEST SECTION OF HIGHWAY	921
<i>M Zhang, J J Li, Ch K Qin</i>	
CHALLENGES OF URBAN PLANNING IN PALESTINE	928
<i>Taheer J. T. Moghayer, Yidnekachew Tesmamma Daget, Xingping Wang</i>	
NORMAL DYNAMIC DEFORMATION CHARACTERISTICS OF NON-CONSECUTIVE JOINTED ROCK MASSES UNDER IMPACT LOADS	934
<i>Sheng Zeng, Bowei Jiang, Bing Sun</i>	
EXPLORATION ON FACTORS OF OLD INDUSTRIAL BUILDING RENOVATION AND DESIGN PRACTICE	940
<i>Shao-Qiao Yu</i>	
DISTRIBUTION TREND OF HIGH-RISE BUILDINGS WORLDWIDE AND FACTOR EXPLORATION	946
<i>Shao-Qiao Yu</i>	
STUDY ON THE MEASURES OF TUNNELS SIDE-CROSSING BRIDGE BASED ON SHELTERING EFFECTS OF ISOLATION PILES.....	952
<i>Jian Tang, Jun Yan Liu, Yan Liu</i>	
RESEARCH ON THE REASONABLE PILE SPACING OF MICRO PILE COMPOSITE SOIL NAILING.....	958
<i>Jun Yan Liu, Yan Liu, Xiang Hua Song</i>	
STUDY ON THE DESIGN SCHEMES OF THE AIR-CONDITIONING SYSTEM IN A GYMNASIUM	964
<i>Yujin Zhang, Xinwei Wu, Jing Zhang, Zhixin Pan</i>	
STRUCTURAL DESIGN AND MONITORING ANALYSIS OF FOUNDATION PIT SUPPORT IN YIWU HUIZHANG TIANDI.....	970
<i>Chunsu Zhang</i>	

ENERGY AND POWER

DAILY SOLAR IRRADIANCE IN DAILY USEFUL ENERGY OF DOMESTIC SOLAR WATER HEATER.....	976
<i>Meng-Lan Gong, Shan-Ting Ding</i>	
EFFORT LEVELS OF THE PARTNERS IN NETWORKED MANUFACTURING	981
<i>G R Chai, Z Cai, Y N Su, S L Zong, G Y Zhai, J H Jia</i>	

FORMATION CHARACTERISTICS OF MICROBUBBLE IN A CO-FLOWING LIQUID IN MICROFLUIDIC CHIP	986
<i>Hui Zhang, Hongwei Qin, Shengyuan Jiang, Peng Li, Lixia Sun, Yukun Ren</i>	
RESEARCH ON STABILITY OF THE POWER SYSTEM.....	994
<i>Dong Xie, Dajin Zang, Peng Gao</i>	
RESEARCH ON ENERGY STRATEGY AND CHINESE ENERGY INVESTMENT IN THE MIDDLE EAST	998
<i>Yiling Huang</i>	
DETECTING CLIMATE RATIONALITY AND HOMOGENEITIES OF SEA SURFACE TEMPERATURE DATA IN LONGKOU MARINE STATION USING SURFACE AIR TEMPERATURE	1003
<i>Yan Li, Huan Li, Qingyuan Wang, Guosong Wang, Wenjing Fan</i>	
STUDY ON THE INFLUENTIAL FACTORS OF HEAT TRANSFER OF GROUND HEAT EXCHANGER WITH ORTHOGONAL TEST.....	1011
<i>Shunyu Su, Rui Yang, Lamei Liu, Chuanhui Zhou, Lei Shi</i>	
STUDY ON FLOW FIELD CHARACTERISTICS OF NOZZLE WATER JET IN HYDRAULIC CUTTING	1016
<i>Wen-Tao Liao, Xiao-Yu Deng</i>	
OPTIMIZATION OF CARBON MITIGATION PATHS IN THE POWER SECTOR OF SHENZHEN, CHINA.....	1021
<i>Xin Li, Guangxiao Hu, Ying Duan, Junping Ji</i>	
STUDY ON THE CHARACTERS OF CONTROL VALVE FOR AMMONIA INJECTION IN SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM OF COAL-FIRED POWER PLANT	1026
<i>Che Yao, Tao Li, Hong Zhang, Yanming Zhou</i>	
PROMOTION MODELS AND ACHIEVEMENTS OF NEW-ENERGY AUTOMOBILES IN SHENZHEN.....	1032
<i>Yu Cai, Siqin Xiong, Bo Bai, Xiaoming Ma</i>	
NOISE REDUCTION DESIGN OF THE VOLUTE FOR A CENTRIFUGAL COMPRESSOR.....	1036
<i>Zhen Song, Huabing Wen, Liangxing Hong, Yudong Jin</i>	
THE INFLUENCES OF ELECTROLYTE ON RHEOLOGICAL PROPERTIES OF POYANG LAKE SAND	1043
<i>Peiyu Wang, Xi Chen, Ziqi Qin, Zhongfan Zhu</i>	
THE DESIGN OF THE TRADING MECHANISM TO ADAPT THE DEVELOPMENT OF MIXED COOLING HEATING AND POWER.....	1048
<i>D N Liu, Z H Li, H M Zhou, Q Zhao, X F Xu</i>	
THE INFLUENCE OF VACUUM PRELOADING TO EXISTING ROAD	1054
<i>Bin Li</i>	
THE RESEARCH PROCESS ON CONVERTER STEELMAKING PROCESS BY USING LIMESTONE.....	1058
<i>Biao Tang, Xing-Yi Li, Han-Chi Cheng, Jing Wang, Yun-Long Zhang</i>	
RESEARCH ON RIPPLE REJECTION OF DC POWER SUPPLY BASED ON DUAL PULSE WIDTH MODULATION.....	1062
<i>Xin Liu, Peiyi Liu</i>	
ANALYSIS OF ECONOMIC AND ENVIRONMENTAL BENEFITS OF A NEW HEAT PUMP AIR CONDITIONING SYSTEM WITH A HEAT RECOVERY DEVICE.....	1067
<i>Lingxue Li</i>	
DETERMINATION OF CURRENT LOADS OF FLOATING PLATFORM FOR SPECIAL PURPOSES	1074
<i>Guang-Ying Ma, Yun-Long Yao, Chen-Yao Zhao</i>	
SELECTION AND OPTIMIZATION OF MOORING CABLES ON FLOATING PLATFORM FOR SPECIAL PURPOSES	1079
<i>Guang-Ying Ma, Yun-Long Yao, Chen-Yao Zhao</i>	
RESEARCH ON ELECTRICITY MARKET OPERATION MECHANISM AND ITS BENEFIT OF DEMAND SIDE PARTICIPATION.....	1085
<i>Shuai Han, Xu Yan, Li-Juan Qin, Xi-Qiao Lin, Bo Zeng</i>	
STUDY ON SYNERGETIC SCHEDULE OF HYDRO-WIND POWER FOR MINIMIZING IMPACT ON POWER GRID.....	1091
<i>Weijiang Zhu, Binqi Hu, Tao Cheng, Jianping Liu, Yonggang Wu, Yi Yu</i>	
STATE OF CHARGE ESTIMATION OF LITHIUM ION BATTERY BASED ON EXTENDED KALMAN FILTERING ALGORITHM	1100
<i>Fan Yang, Yiming Feng, Binbiao Pan, Renzhuo Wan, Jun Wang</i>	

ESTIMATION OF STATE-OF-CHARGE OF LI-ION BATTERIES IN EV USING THE GENETIC PARTICLE FILTER.....	1108
<i>Jun Bi, Hang Gao, Yongxing Wang, Xiaomei Zhao</i>	
STUDY ON THE MARINE EJECTOR REFRIGERATION-ROTARY DESICCANT AIR-CONDITIONING SYSTEM.....	1115
<i>C. Y. Zheng, G. J. Zheng, W. S. Yu, W. Chen</i>	
CALCULATION OF EQUIVALENT FRICTION COEFFICIENT FOR CASTOR SEED BY SINGLE SCREW PRESS	1122
<i>R. Liu, Z. Xiao, C. Li, L. Zhang, P. Li, H. Li, A. Zhang, S. Tang, F. Sun</i>	
POWER GRID CONSTRUCTION PROJECT PORTFOLIO OPTIMIZATION BASED ON BI-LEVEL PROGRAMMING MODEL.....	1128
<i>Erdong Zhao, Shangqi Li</i>	

ELECTRONIC INFORMATION TECHNOLOGY

SECTION SELECTION SOFTWARE DESIGN FOR SUBMARINE CABLES	1135
<i>Meng Li, Sheng-Suo Niu, Yan Song, Xu-Ce Jia, Yu-Qin Liu, Ke-Wei Zhao</i>	
STUDY ON QUALITY INDICATOR SYSTEM OF RHYTHMIC GYMNASTS IN ANALYTIC HIERARCHY PROCESS	1141
<i>Lin Luo</i>	
DESIGN OF DEMAND SIDE RESPONSE MODEL IN ENERGY INTERNET DEMONSTRATION PARK.....	1149
<i>Q Zhang, D N Liu</i>	
INTERACTIVE ENVIRONMENT DESIGN IN SMART CITY	1154
<i>Dexiang Deng, Lansha Chen, Xi Zhou</i>	
INTELLIGENT PRODUCT CONSTRUCTION AND DESIGN IN SMART EARTH	1158
<i>Xi Zhou, Qiao Li</i>	
A COMPARATIVE STUDY ON THE ARCHITECTURE INTERNET OF THINGS AND ITS' IMPLEMENTATION METHOD	1162
<i>Zhiliang Xiao</i>	
DISTRIBUTED SOFTWARE FRAMEWORK AND CONTINUOUS INTEGRATION IN HYDROINFORMATICS SYSTEMS	1167
<i>Jianzhong Zhou, Wei Zhang, Mengfei Xie, Chengwei Lu, Xiao Chen</i>	
AN OPTIMIZATION DESIGN FOR EVACUATION PLANNING BASED ON FUZZY CREDIBILITY THEORY AND GENETIC ALGORITHM.....	1173
<i>D. Zhang, W. Y. Zhang</i>	
PRELIMINARY DISCUSSION ON "INTERNET +" SPONGE CITY MODULAR CONSTRUCTION SYSTEM	1181
<i>Jinhui Yang, Sijun Kang, Weizu Luo, Yanghong Dai, Bing Yang</i>	
EXPERIMENTAL STUDY ON THE FOUNDATION OF SOFT SOIL SOLIDIFICATION FORMULA BASED ON THE DESIGN - EXPERT SOFTWARE SEARCH.....	1188
<i>Chaojun Qian, Dahua Li, Xian Zhang, Dongqing Zhou, Baoliang Zhang</i>	
A MODIFIED ITERATIVE ENSEMBLE KALMAN FILTER DATA ASSIMILATION METHOD.....	1195
<i>Baoxiong Xu, Yulong Bai, Yizhao Wang, Zhe Li, Boyang Ma</i>	
PREDICTING FLIGHT DELAY BASED ON MULTIPLE LINEAR REGRESSION	1204
<i>Yi Ding</i>	
MOTION INTERFERENCE ANALYSIS AND OPTIMAL CONTROL OF AN ELECTRONIC CONTROLLED BAMBOO-DANCE MECHANISM	1211
<i>Xiaohong Liu, Liang Xu, Xiaobin Hu</i>	
INVERSION OF TWO NEW CIRCULANT MATRICES OVER Z_M	1218
<i>Yanpeng Zheng, Sugoog Shon, Zunwei Fu</i>	
SROT: SPARSE REPRESENTATION-BASED OVER-SAMPLING TECHNIQUE FOR CLASSIFICATION OF IMBALANCED DATASET	1228
<i>Xionggao Zou, Yueping Feng, Huiying Li, Shuyu Jiang</i>	
OPTIMAL METHOD OF ECOLOGICAL RESTORATION OF DEGRADED ECOSYSTEM USING GOAL PROGRAMMING.....	1238
<i>Ling Sun, Zesheng Zhu</i>	
DYNAMIC ESTIMATION OF WATER HYACINTH AREA USING FUSION OF SATELLITE AND GPS SENSORS.....	1244
<i>Ling Sun, Zesheng Zhu</i>	

THE RESEARCH OF ELEVATOR HEALTH DIAGNOSIS METHOD BASED ON BAYESIAN NETWORK.....	1251
<i>Chang Liu, Xinzheng Zhang, Xindong Liu, Can Chen</i>	
IMPLEMENTATION AND OPTIMIZATION OF SUB-PIXEL MOTION ESTIMATION ON BWDSP PLATFORM.....	1261
<i>Shangzhu Jia, Wenhui Lang, Feiyang Zeng, Yufu Liu</i>	
VANPOOL TRIP PLANNING BASED ON EVOLUTIONARY MULTIPLE OBJECTIVE OPTIMIZATION.....	1267
<i>Ming Zhao, Disheng Yang, Shibing Feng, Hengchang Liu</i>	
SSELOUD: USING SECRET SHARING SCHEME TO SECURE KEYS.....	1283
<i>Liang Hu, Yang Huang, Disheng Yang, Yuzhen Zhang, Hengchang Liu</i>	
AIR-SENSE: INDOOR ENVIRONMENT MONITORING EVALUATION SYSTEM BASED ON ZIGBEE NETWORK.....	1290
<i>Yang Huang, Liang Hu, Disheng Yang, Hengchang Liu</i>	
APPLICATION OF RPF IN MEMS GYRO RANDOM DRIFT FILTERING.....	1297
<i>Gao Guowei, Xie Yan</i>	
A NEW METHOD TO SOLVE NON-HOMOGENEOUS WAVE EQUATIONS OF ELECTROMAGNETIC FIELDS BY FOURIER'S TRIPLE INTEGRAL TRANSFORM.....	1304
<i>Wenjing Hu</i>	
ADJACENT-VERTEX-DISTINGUISHING PROPER TOTAL COLOURING NUMBER OF $K_m \vee P_n$.....	1309
<i>Shunqin Liu</i>	
LOCOMOTIVE TRACK DETECTION FOR UNDERGROUND.....	1316
<i>Zhonglei Ma, Wenhui Lang, Xiaoming Li, Xing Wei</i>	
STUDY ON THE MEASUREMENT METHOD OF OIL WELL'S DYNAMIC LIQUID LEVEL BASED ON AIR COLUMN RESONANCE.....	1323
<i>Wei Zhou, Liqun Gan, Pan Zhou, Taifu Li, Xiaohua Gu</i>	
Author Index	