

2012 International Conference on Biomedical Engineering and Biotechnology

(iCBEB 2012)

**Macau, Macao
28 – 30 May 2012**

Pages 1-950



**IEEE Catalog Number: CFP1241R-PRT
ISBN: 978-1-4577-1987-5**

2012 International Conference on Biomedical Engineering and Biotechnology

iCBEB 2012

Table of Contents

Welcome Message from the General Chair.....	xli
Organizing Committee.....	xlii
Program Committee Members.....	xlix
List of Reviewers.....	xlvik

Bioinformatics, Computational Biology, and Systems Biology

1H NMR Metabonomic Study on the Antidepression of Xiao-yao-san Series Prescriptions in Rat Plasma	1
<i>Jun-sheng Tian, Bi-yun Shi, Xue-mei Qin, and Peng Zhi</i>	
A Finite Element Analysis of the Human Knee Joint: Menisci Prosthesis instead of the Menisci and Articular Cartilage	5
<i>Yunfeng Niu and Fuzhong Wang</i>	
A Improve Direct Path Seeking Algorithm for L1/2 Regularization, with Application to Biological Feature Selection	8
<i>Cheng Liu, Yong Liang, Xin-Ze Luan, Kwong-Sak Leung, Tak-Ming Chan, Zong-Ben Xu, and Hai Zhang</i>	
A Method to Resolve Weak and Overlapping Signals in Proton Magnetic Resonance Spectroscopy	12
<i>Gang Jiang, Hong Quan, and Cheng Wang</i>	
A Novel HPLC Method for Determining Three Effective Components in Chinese Medicine ‘Xiao’ Erjiebiao Granules	16
<i>Guangcai Qi, Ajing Liu, Zhenye Liu, and Zijing Bai</i>	
A Similarity Principle Research Method for Solar Heating System with Seasonal Water Tank Heat Storage	21
<i>Dongliang Sun and Jinliang Xu</i>	
A Study on Total Contact Insole Basing on Deformed Human-Shoe Interfaces	26
<i>Qi Wang and Qingming Wang</i>	

Advances in Studies on Chemical Constituents and Biological Activities of <i>Typhonium giganteum</i> Engl. Tuber Extracts	30
<i>Yanling Song, Baina Li, and Yanqiu Meng</i>	
Advances in Studies on Synthesis and Biological Activity of Delta-9-trans-Tetrahydrocannabinol	34
<i>Yanling Song, Baina Li, and Yanqiu Meng</i>	
AM-derivative Spectrophotometry with High Signal-to-Noise Ratio for UV-Vis Spectrophotometer	37
<i>Tingting Luo, Sheng Yang, Yuhang Chen, Xiangcheng Chen, Jiamei Ding, and Wenhao Huang</i>	
An Interactive Deforming Framework for Dental Surface Restoration	41
<i>Xin Ma, Mingqiang Wei, Sen Wang, and Jianhuang Wu</i>	
An Optimized Cardiovascular Model: A Pattern Search Approach	45
<i>Mohamed A. Abbass, Emad El Samahy, and Ahmed Genedy</i>	
Analysis of Cell-Wall Invertase Function in Leaves of Tomato under Cold Stress	49
<i>Zhengjing Wu, Zhihui Cheng, and Huanwen Meng</i>	
Analysis of Luteinizing Hormone Beta-Subunit Gene in Mammal	53
<i>Qin Wang</i>	
Anti-allergic Effects of the Rhizomes of <i>Atractylodes japonica</i> and the Main Constituents	57
<i>Je Hyeong Lee, Hun Jae Im, Hyun Lim, Hyun Pyo Kim, Jinwoong Kim, and Yeong Shik Kim</i>	
Antidepression of Ping Yu Formula via the Regulation of cAMP Signaling Pathway	60
<i>Huan Xiang, Jun-sheng Tian, and Zuo-guang Zhang</i>	
Antioxidant Activity of Related Compounds Besides Polyphenols in Chinese Herbs	64
<i>Yong Ye, Yuetong Luo, and Yanfang Wang</i>	
Antitumor Effects of <i>Typhonium giganteum</i> Engl. Tuber Extracts	68
<i>Yanling Song, Baina Li, and Yanqiu Meng</i>	
Application of Fenton Reagent in Electroluminescent Materials Wastewater Treatment	71
<i>Huang Jiguo and Zou Yuxuan</i>	
Asymmetric Synthesis of Ethyl (R)-2-hydroxy-4-phenylbutyrate with Catalytic Antibody NB5 as Catalyst	74
<i>Ou Zhimin and Yang Gensheng</i>	
Au/CeO ₂ Catalysts for Catalytic Abatement of CO, CH ₃ OH and (CH ₃) ₂ O: Effect of Preparation Method	78
<i>Tatyana Tabakova, Dimitar Dimitrov, Krassimir Ivanov, Maela Manzoli, Flora Boccuzzi, and Boyan Boyanov</i>	

Automatic Prediction of Enzyme Functions from Domain Compositions Using Enzyme Reaction Prediction Scheme	82
<i>Chuan-Ching Huang, Chun-Yuan Lin, Cheng-Wen Chang, and Chuan Yi Tang</i>	
Bioinformatic Analysis of Auxin Response Factor (ARF) Gene Family in Rape	86
<i>Tao Zhang, Rong-chong Li, Jing-hui Zhao, Xiao-ming Zheng, Zhong-hou Yuan, and Chang-you Yang</i>	
Bioinformatics Analysis of Squalence Synthase (SS) in <i>Panax japonicus</i>	90
<i>Lai Zhang</i>	
Biological Control of <i>Spartina alterniflora</i> by a Fungal- <i>Fusarium subglutinans</i>	97
<i>Li Bo Gong, Yuan Peng Wang, Xueping Ling, and Jianjun Yuan</i>	
Biomimetic Oxidation of Sulfides Based on FeIII Porphyrin under the Mild Conditions	101
<i>Xinrui Zhou, Xian Chen, Yi Wang, and Yaqin Jin</i>	
Cloning and Sequence Analysis of LEAFY Homologue from <i>Pistacia chinensis</i> Bunge	104
<i>Pingping Zhang, Jingjing Liu, Bo Zheng, Feiyu Mao, Mingli Tang, Minghao Li, and Lifang Wu</i>	
Cognitive Impact Differs from Relationship of Scene and Facial Expression	111
<i>Shangfu Ouyang and Huimin Ma</i>	
Combining GRNN and SVM Using Receiver Operating Characteristics (ROC) for Improved Classification of Non Coding RNA	115
<i>P.K. Singh and S. Karthikeyan</i>	
Construction and Expression of CpxP Protein from Plant Pathogenic Bacteria	119
<i>Zi Yang, Xiaohui Zhou, Jianjun Song, Xuexing Fang, and Xu Xiong</i>	
Correlation between Expressions of Estrogen Receptor, Thymidylate Synthase and CAF Regime Sensibility in Breast Carcinoma	123
<i>Xiaoli Zhang and Linxi Zhang</i>	
CREB-binding Protein (CBP) p300 Enhanced the Expression of Cardiac Hypertrophy-Specific Genes Activated by Myocardin-Related Transcription Factor-A (MRTF-A)	127
<i>Mingzhe Li, Zhenyu Wang, Zhongyi Xie, Jing Luo, Dongsun Cao, and Tongcun Zhang</i>	
Cytotoxicity, Pharmacokinetics and Antitumor Efficacy of a Novel Liposomal Mitoxantrone	131
<i>Shizhu Gao, Qin Meng, Qiang Hao, Jun Fu, Jin Pei, and Min Luo</i>	
Design and Development of the Self-Adaptive Tool Path Decision-Making CNC Platform	135
<i>Zhiwei Lin, Ruifeng Guo, Long Chen, Cong Geng, and Feng Wang</i>	
Determination of Mineral Elements in <i>Crocus Sativus</i> L. by the Method of Microwave Digestion and ICP-OES	138
<i>Min-yan Zheng, Jia-juan Sun, Yong-sheng Wei, Ping Zhang, and Wei Geng</i>	

Development a Risk Assessment Method of <i>Brachyspira Hyodysenteriae</i> in Pig Farms	141
<i>Kou Yahui, Wang Hengan, Yan Yaxian, Wang Jian, and Liu Peihong</i>	
Development of a GC-MS Method for the Simultaneous Determination of Amitraz in Fish Muscle	144
<i>Tao Le, Bin Li, Hong-qiu He, Yong Chen, and Xiao-dong Niu</i>	
Development of TNF-alpha Inhibitor Drugs in Treatment of Rheumatoid Arthritis	149
<i>Jin-rui Dong, Ming-hao He, Mo Han, Ya-nan Gao, and Yu-chong Sun</i>	
DFT-based QSAR Study of Copper (II) Complexes with Quinolones and Nitrogen-donor Heterocycles	153
<i>Suwen Deng, Xingye Zeng, Wei Hu, and Xiaoping Liu</i>	
Diatomological Distribution of Pearl River in Guangzhou and Yangtze River in Hubei Province and Its Application to the Diagnosis of Drowning Cases	157
<i>Huifang Su, Chao Liu, Sunlin Hu, Yan Liu, Xinshu Xu, Hong Liu, and Jian Zhao</i>	
Diel Variation of Methane Emission from a Subtropical Paddy Field of South China in the Second Crop Season	163
<i>Hui Liu</i>	
Differential Gene Expression Analysis on Microarray Data of Breast Cancer Based on Subgroup Statistic Methods	167
<i>Zhaohua Ji, Fu Liu, Yao Wang, Xiaohu Shi, Chong Xing, and Yanchun Liang</i>	
Dimensional Complexity Distribution on Scalp of Visual Evoked Potentials	172
<i>Yanjun Dang, Weiguang Shu, and Huimin Cao</i>	
Discrimination of <i>Fructus forsythiae</i> According to Geographical Origin with Near-infrared Spectroscopy	175
<i>Yan Bai, Xing Wang, Jingwei Lei, Caixia Xie, Qiujuan Ma, Juan Zhang, and Yongsheng Ji</i>	
Discrimination of Psychrophilic and Mesophilic Proteins Using Random Forest Algorithm	179
<i>Abhigyan Nath, Radha Chaube, and Subbiah Karthikeyan</i>	
DNA Sequence Assembly with Bioinformatics Shotgun Method	183
<i>Michael Shan-Hui Ho, Kun-Yu Hung, Chaochang Chiu, and Yu-Shiang Gen</i>	
Drastic Enhancement of Maysin and Maysin Derivatives Contents in the Centipedegrass Extracts by Different Stresses	187
<i>Hyoung-Woo Bai, Eun Mi Lee, Seung Sik Lee, Sung Hyun Hong, Min Hee Lee, and Byung Yeoup Chung</i>	
Effect and Mechanism of <i>Sapium sebiferum</i> Against Snail (<i>Oncomelania</i> <i>hupensis</i>) and Control of Schistosomiasis	190
<i>Qixiang Sun, Yongfeng Yang, and Qian Zhang</i>	
Effect of Different Mixed Fertilizer on Soil Environment and Nutrient in <i>Stevia</i> <i>Rebaudiana Bertoni</i>	194
<i>Jingtian Yang, Xiangyang Liu, and Yan Shi</i>	

Effect of Different Mixed Fertilizers on the Growth and Development in <i>Stevia Rebaudiana</i> Bertoni	198
Liyuan Yan, Xiangyang Liu, and Yan Shi	
Effect of Hydrocortisone on Liver Mitochondria Proteome of Rats	202
De-Zhao Lu, Ping-Er Wang, Ji Zhu, Tao-Qi Lin, and Xing-De Wo	
Effect of Taurine on Lifespan and Antioxidant in Drosophila	206
Xia Yang, Zhisheng Zhang, Yuanyuan Feng, Hui Ren, Fei Liu, and Tiehong Zu	
Effect on TGF-beta Signaling Pathway of the Total Flavonoids from <i>Valeriana jatamansi</i> Jones in Hepatocarcinoma 22-bearing Mice	210
Tiane Zhang, Chaoyong Chen, Chong Chen, Shaohua Li, Changying Zuo, and Zhi-yong Yan	
Effects of Arbuscular Mycorrhizal Inoculation and Cattle Manure on Cadmium Uptake by Tobacco	213
Fa Yuan Wang, Ling Wang, and Zhao Yong Shi	
Effects of Extraction Solvent on Polyphenolic Contents and Antioxidant Activities of <i>Osmanthus fragrans</i> ' Seed	217
Yan Xiong, Liqun Rao, Li Xiong, QiuHong Ai, and Xuewen Wu	
Effects of Ginkgo Biloba Extract on Cellular Cholesterol Content and CD36 Expression of Macrophages from Diabetic Rats	221
Xusheng Li, Lanfang Ji, Yongqiang Fu, Yanfeng Ying, and Ye Hu	
Effects of Qinghai-Tibet Railway and Highway on Plateau Picas	224
Zhongqiu Li	
Effects of Rare Earth Elements Lanthanum on Growth and Antioxidation System of the Greengrocery under Salt Stress	228
Mei Hua Fan, Zhi Liao, Li Yan Chen, Ge Shi, and Jian Xin Wang	
Electrochemical Treatment of Reverse Osmosis Concentrate of Oil Refining Wastewater by Mn-Sn-Ce/gamma-Al ₂ O ₃ Particle Electrode	236
Zhaoxin Zhou, Qing Wang, Hongyan Han, Song Nie, Chao Yang, and Xike Tian	
Enantioseparation of Enantiomers across Hollow Fiber Supported Liquid Membranes	242
Dushu Huang, Wei Liu, Zhaolong Huang, Yashun Chen, Jing Wang, and Na Wu	
Enantioseparation of Peptides with Two Chiral Centers by Capillary Electrophoresis	246
Gang-yi Shen, Donglai She, Wanting Yu, and Shuwen Li	
Enantioseparation of Propranolol Enantiomers Using Hollow Fiber Membrane Contactor	249
Dushu Huang, Wei Liu, Lihua Yao, Yong Min, Ruimin Xiao, and Yashun Chen	
Enhanced Production of Mycelia Biomass and Bioactive Metabolite of the American Ganoderma lucidum in Submerged Culture	252
Meilin Cui and Guoqing He	

Establishment of a Bioinformatics Method for Detecting of ESBLs Producing Isolates of <i>Pseudomonas aeruginosa</i> at Different Surgical Wards	256
Zhi-long Cheng, Hui Niu, Guang-yu Cheng, Yan-suo Jiang, and Ming-cheng Li	
Experimental Study of TFGs on Cardiac Fibroblast Transdifferentiation and Its Mechanism	260
Zhi-Heng Dong and Meng Qu	
Experimental Study on the Steady Flow in the Carotid Siphon: The Geometric Effect on the Hemodynamics	264
Chi Zhang, Shuyu Li, Fang Pu, Xiaoyan Deng, Yubo Fan, Deyu Li, and Sheng Xie	
Expression of ADAM8 in Liver Cancer	268
San-Qiang Li, Hong-Ye Meng, Shou-Min Xi, Ling-Jun Ma, and Wu-Biao Yang	
Expression Quantitative Trait Loci Analysis of BAN, F3H and TT19 Genes in <i>Brassica napus</i>	272
Kun Lu, Cunmin Qu, Kai Zhang, Hao Yu, Junxin Lu, Yourong Chai, and Jiana Li	
Extract Knowledge from Site-sampled Data Sets and Fused Hierarchical Neural Networks for Detecting Cardiovascular Diseases	275
Jun Shi, Booma Devi Sekar, Ming Chui Dong, and Xiang Yang Hu	
Extraction and Antitumor Activity of Pedunculagin from Eucalyptus Leaves	280
Su-Yao Xiao, Bao-Qing Wen, Hao-Yu Zhuang, Jun-Liang Wang, Jie Tang, Hong-Zhang Chen, Xue-Xiang Chen, and Yong Cao	
Extraction and Preliminary Purification of Cellulase from <i>Cipangopaludina</i> <i>Cahayensis</i>	283
Li Tong Ma and Jun Li	
Facile Synthesis of Silver Nanoparticles and their Antimicrobial Activity against Several Representative Microbial Species	287
Wen-xing Wang, Li Geng, Shuang Ding, and Shu-kun Xu	
Fatty Acid Compositions in the Muscle of <i>Schizothorax (Racoma) kozlovi</i> from China	291
Yinggui Dai	
Feasibility Analysis of Lower Limit of Quantification of NIR for Solvent in Different Hydrogen Bonds Environment Using Multivariate Calibrations	296
Zhisheng Wu, Min Du, Chenglin Sui, Zhaozhou Lin, Xinyuan Shi, and Yanjiang Qiao	
Formulation, Characterization and Evaluation of the in Vitro Skin Permeation of Nanostructured Lipid Carriers Encapsulated Tripterine	300
Yan Chen, Lei Zhou, Ling Yuan, Zhenhai Zhang, and Qingqing Wu	
Function and Localization Analysis of Zebrafish Rspo1	306
Dongchang Sun and Yanmei Zhang	
Functional Regeneration of Rats with Nerve Injuries via Transplantation of Bamboos	309
Nie Min, Zhang Meiling, Liu Xiaohui, Nie Shuai, Shi Wei, Yan Yaosheng, and Han Suiping	

Generalized Least Absolute Deviation Method and Its Application in Biology	313
Lemin Gu	
Genetic Variation in Natural Populations of Prince Rupprecht's Larch (<i>Larix principis-rupprechtii</i>) with Elevation in the Guandi Mountain, China	321
Qixiang Wang, Mengben Wang, and Jianping Hao	
Identification of DNA Fingerprinting and Cluster Analysis Using ISSR Markers for 13 Sugar Beet Cultivars (lines) from China and Holland	325
Qiaohong Liu, Dayou Cheng, Lin Yang, Chengfei Luo, Hua Zhang, Yumei Wu, Naixin Liu, and Qin Zhou	
Impedimetric PSA Immunosensor: Prostate Specific Antigen Biosensor	329
Congo Tak-Shing Ching, Tzong-Ru Chou, Tai-Ping Sun, and Hsiu-Li Shieh	
<i>In silico</i> Modeling and Global Optimization of Dynamic Bio-optical Processes for Probing, <i>in vivo</i> , Biological Features of Neoplasia	332
George Papoutsoglou, Maria Stamatiadou, and Costas Balas	
Intelligent Alarm System of Mechanical Ventilation: Innovative Pressure Alarm for Immediate Clinical Management	336
Shih-Hsing Yang, Tsung-Wu Yeh, Yang-Lin Fang, Kuo-Kai Shyu, Chung-Chih Huang, and Chin-Pyng Wu	
ISCOMATRIX Application of Nanotechnology	340
Peng Yao and An Jian	
Isoflavone Synthase Genes in Legumes and Non-leguminous Plants: Isoflavone Synthase	344
Martina Picmanová, David Honys, Radka Koblovská, and Oldřich Lapčík	
Isolation of Four Diatom Strains from Tidal Mud toward Biofuel Production	348
Yu Gao, Yang Yu, Junrong Liang, Yahui Gao, and Qiaoqi Luo	
Karyotype Characteristics of <i>Onychostoma rara</i> from South China	352
Yinggui Dai, Guangxin Ran, and Xiaotong Yue	
Kinetic Model of Enzymatic Hydrolysis of Protein about the Protein of Silkworm Pupae—Alcalase System	356
Zhongxing Zhao, Dankui Liao, Jianhua Sun, Zhangfa Tong, Kelin Huang, Guosong Sun, and Zhihong Wu	
Learning Ontology Automatically Using Topic Model	360
Zhijie Lin, Rui Lu, Yun Xiong, and Yangyong Zhu	
Lily Polysaccharide Prevents Alloxan-induced HIT-T15 Cell Damage by Reducing ROS Generation	364
Yuping Li, Jun Chang, Chengmei Liu, Xiangyuan Xiong, Yanchun Gong, and Ziling Li	
Macromolecular Drug Conjugates, Metronidazole-Cyclodextrin Prodrugs	368
Zhizhong Wang and Mengying Liu	

Mapping QTLs for Phosphorus-deficiency Tolerance in Soybean at Seedling Stage	370
<i>Jun-jiang Wu, Peng-fei Xu, Li-jun Liu, Shuzhen Zhang, Jin-sheng Wang, Wei-gang Lin, Peng Zhong, Lai Wei, and De-jian Dong</i>	
miRNA 128 Induces Cell Death in Glioblastoma Multiforme and Myeloid Leukemia Cell Lines	379
<i>Hirendra Banerjee, Shayonda Evans, Kelly Mahaffey, Paula Viltz, Gwyneth Hyman, Christopher Krauss, and Deirdre Vaughan</i>	
Molecular Cloning and Identification of Genes Encoding Eukaryotic Initiation Factor Family 1 (<i>LceIF1</i> , <i>LceIF1A</i> , and <i>LceIF1B</i>) in <i>Leymus chinensis</i>	381
<i>Yan-Lin Sun and Soon-Kwan Hong</i>	
Monitoring of Soil Contamination in Vicinity of Lead-Zinc Smelter KCM SA, Bulgaria	385
<i>Boyan S. Boyanov, Yavor I. Kehayov, and Krasimir I. Ivanov</i>	
Nanofibre Based Biomaterials—Bioactive Nanofibres for Wound Healing Applications	389
<i>Frank Ko, Victor Leung, Ryan Hartwell, Heejae Yang, and Aziz Ghahary</i>	
Optical Mapping of the Effect of Pacing Rate and Ikr Blocker, Dofetilide, on Heterogeneity of Action Potential Duration between Rabbit Right and Left Ventricle	393
<i>Lin Yang, Li Li, Hong-mei Sun, Shu Kong, Zhao Yang, Hong Zhang, and Shien-fong Lin</i>	
Pharmacophore Model Generation of P2Y12 Inhibitor	396
<i>Zhen Yang, Yanling Zhang, Xing Wang, and Yanjiang Qiao</i>	
Photosynthetic Inhibition on the Microalga <i>Dunaliella salina</i> (Chlorophyta) by the Dried Macroalga <i>Gracilaria lemaneiformis</i> (Rhodophyta)	400
<i>C.P. Ye, M.C. Zhang, T. Ganapathy, Y. Zuo, and Y.F. Yang</i>	
Pollution Status of Dioxin and Its Estimation Emissions in Jilin Province	405
<i>Sufen Cai and Haiyi Li</i>	
Portable Wireless Power Transmission System of a Video Capsule Endoscopy: Design and Realization	409
<i>Zhu Bingquan, Yan Guozheng, Jia Zhiwei, and Shi Yu</i>	
Prediction of Protein-Protein Interactions in <i>Saccharomyces cerevisiae</i> Based on Protein Secondary Structure	413
<i>Lu Cai, Zhiyong Pei, Sheng Qin, and Xiujuan Zhao</i>	
Preparation and Radical Scavenging Activity of Nano-Fuller-Serine	417
<i>Jing Zhang, Yuan Li, Jing Li, Yadong Zhang, and Junwei Duan</i>	
Preparation of a P-rich Soil Amendment and Its Effect on the Pot Growth of White Mustard	421
<i>Yongli Li and Lin Shi</i>	

Preparation of Collagenic Wound Dressings	426
<i>Hua Yang, Zibin Shu, Ya Yan, Jing Yin, and Xinran Peng</i>	
Preparation of High F-Value Oligopeptides from Corn Gluten Meal and Its Anti-fatigue Functions	429
<i>Yuanxiu Wang, Xiaoyan Song, Guixiang Zhang, Naxin Sun, and Mingyang Zheng</i>	
Preparation of Hydroxyapatite Coatings by Acid Etching-electro Deposition on Pure Titanium	433
<i>Jian-gang Qian, Hai-ting Li, Peng-rui Li, and Yi-chi Chen</i>	
Preparation of pH-sensitive Hydrogels for Oral Delivery of Protein	437
<i>Yue-hong Zhang, Qing Shang, Ting Zheng, Yuan-yuan Liang, and Tong Chen</i>	
Primary Study on Rapid Detection of European Brown Hare Syndrome Virus by RT-LAMP	441
<i>Zexiao Yang, Xianchao Wei, Yin Wang, Xueping Yao, Kaiyu Wang, Ling Zhu, Xueqing Han, Zengqi Yang, Huiping Shi, and Yanming Zhang</i>	
Probiotics Attenuate Sperm Damage Induced by Oxidative Stress in Rats	446
<i>Xiaolian Chen, Linzhi Gong, and Jianxiong Xu</i>	
Process Optimization in the Synthesis of Sertindole Using Alkylimidazolium-based Ionic Liquids as Solvents for N-alkylation	449
<i>Wen Li, Panan Wang, Wenya Zhang, Xiaoqing Ma, and Jiangtian Zhu</i>	
Programmed Interpretation of the Life Evolution and Computer Simulation	453
<i>Jun Ma, Mei Fan, and Yide Ma</i>	
Progress in Innocuous Treatment Methods of High-Boiling Residues Formed in the Synthesis of Methylchlorosilanes	457
<i>Jihai Duan, Gao Yang, and Jianlong Li</i>	
Protein <i>Trans</i> -splicing Activities of Multiple Split Inteins Derived from <i>Ssp</i> GyrB Intein	461
<i>Huiling Song, Qing Meng, and Xiang-Qin Liu</i>	
Purification of Polysaccharide from Photoautotrophic Cultivation of <i>Nostoc</i> <i>flagelliforme</i> Cells with Sector Radial Flow Chromatography	465
<i>Yujie Dai, Nan Chen, Shiru Jia, Nannan Yuan, Ning Tan, and Jing Li</i>	
R and D Cloud CEIB: Management and Knowledge Extraction System for Bioimaging in the Cloud	469
<i>Jose María Salinas Serrano, Miguel Angel Cazorla Quevedo, Maria de la Iglesia-Vaya, Luis Martí-Bonmatí, and Rosa Valenzuela</i>	
Rapid Analysis of <i>Fructus forsythiae</i> by Near-infrared Spectroscopy	473
<i>Xing Wang, Yan Bai, Yanling Zhang, and Yanjiang Qiao</i>	

Rapid Analysis of Xanthones and Steroidal Saponins in Extract of Rhizoma Anemarrhenae by Ultra-performance Liquid Chromatography/Quadrupole-Time-of-Flight Mass Spectrometry	477
<i>X. Ji, Y.F. Feng, and W. Rui</i>	
Rapid Identification of Tiegun Yam by Near Infrared Spectroscopy Combined with Conformity Test	486
<i>Yan Bai, Rui-li Song, Jingwei Lei, and Xing Wang</i>	
Removing Undesirable Color and Boosting Biological Activity in Red Beet Extracts Using Gamma Irradiation	489
<i>Byung Yeoup Chung, Seung Sik Lee, Eun Mi Lee, Hyoung-Woo Bai, Sung Hyun Hong, and Chul-Hong Park</i>	
Research on Extractive Distillation of Dimethyldichlorosilane and Methyltrichlorosilane	492
<i>Jihai Duan, Zhong Wei, and Jianlong Li</i>	
Retention Time Prediction Based Proteomic Analysis on Proteins from Glycolysis/Gluconeogenesis Pathway of <i>E. coli</i>	496
<i>Li Wang, Yongqian Zhang, Hong Qing, Yajun Wang, Mei Zhang, Changgen Feng, and Yulin Deng</i>	
Screening of <i>Ampelomyces quisqualis</i> Isolates Hyperparasite on the Tobacco Powdery Mildew Fungus	501
<i>Hong-hai Zhao, He-he Xing, and Chen Liang</i>	
Self-crosslinked Fluorinated Acrylic Copolymer with Improved Stability	503
<i>Yi-chi Chen, Wei Yang, Jian-gang Qian, Wei Yang, Dong-xiao Han, Xiao-qun Wang, and Li-qun Zhu</i>	
Serum Metabonomics Study of Systemic Lupus Erythematosus by Rapid Resolution Liquid Chromatography Coupled with Q-TOF Mass Spectrometry	507
<i>Xinghong Ding and Ying Yu</i>	
Similarity Analysis of DNA Using Improved Approximate Entropy	511
<i>Xun Zhang, Xiao An Zhou, and Yun Hui Yu</i>	
Simulation Study on the Dehydration and Settlement Characteristics of Surface Waste in Landfill	515
<i>Zhou Xiaozhi, Sang Shuxun, Cao Liwen, and Cheng Yunhuan</i>	
Simultaneous Determination of 5 Major Constituents in the Effective Fractions of Huangqichifeng Medicinal Broth, by UPLC-UV	519
<i>Yulong Gu, Bin Liu, and Yanyan Jiang</i>	
Specificity of MOAC Enrichment Applied for Mature Pollen Phosphoproteomics Studies	523
<i>Jan Fila, Vera Capková, David Honys, Hans-Peter Mock, and Andrea Matros</i>	
Spectral Methods for Classifying Short Exon and Intron Sequences	527
<i>Benjamin Y.M. Kwan, Jennifer Y.Y. Kwan, and Hon Keung Kwan</i>	

Stereoselective Activity of Tratinterol to Relax Small Airway and Inhibit Allergic Mediator Release	531
<i>He Pan, Xiao-guang Liu, Li-hong Pan, Han-sheng Bai, Yu-yang Zhang, Li Pan, and Mao-sheng Cheng</i>	
Studies on Preparation of Liposomal Mitoxantrone, Its Characterizations and Stabilities	535
<i>Shizhu Gao, Qin Meng, Qiang Hao, Liping Song, Jin Pei, and Xiujuan Tian</i>	
Study of Fermentation Conditions for Bone Meal with the Lactobacillus	539
<i>Yong Zuo, Hui Xie, Yang Li, Dong Li, Liping Liu, Feng Qi, Shuai Ju, and Jing Zhang</i>	
Study on Catalytic Synthesis of Isobutyl Propionate Using Environmentally Friendly Catalysts	543
<i>Xiuli Yang, Kailei Dong, and Xiaojun Tan</i>	
Study on the Isolation Screening and Characteristic Identification of Denitrifying Phosphorus Removing Bacteria in Sequencing Batch Biofilm Reactor	547
<i>Yafeng Li, Hongtao Liu, and Jing Ren</i>	
Study on the Methods of Treating Polysilicon Wastewater by Chemical Flocculation	551
<i>Zhi Xu, Yu Long Cao, and Qing Zhi Fei</i>	
Studying the Formation Process of Clusters in Solution at the Initial Stage of Protein Crystallization	555
<i>Bing Xiong, Guoliang Dai, and Weihuo Li</i>	
Synthesis and NLO Properties of Bis-hydroxylethyl Azobenzen Chromophores	559
<i>Mingfeng Fang and Guo-Yuan Lu</i>	
Synthesis of (R)-(-)-Mandelic Acid Methyl Ester by Asymmetric Reduction of Methyl Benzoylformate with Yeast Cells	562
<i>Ou Zhimin, Liu Yong, and Nan Yinkang</i>	
Synthesis of 5-Fluorouracil Acetic Acid Prodrugs of β -Cyclodextrin at the Secondary Hydroxyl Side as Potential Colon-Specific Delivery Systems	565
<i>Jingui Cheng and Zhizhong Wang</i>	
Synthesis, Characterization and Antitumor Activity of Rare Earth Eu ³⁺ and Dy ³⁺ Complexes with Quercetin	567
<i>Xiaona Fan, Guolun Xiahou, Yechun Ding, Xia Liu, and Weibin Xiong</i>	
Tannin from Hua Xiang Shu Infructescence	570
<i>Yibin Chen, Kui Chen, Wei Wang, and Jiaxi Chen</i>	
The Complete Genome Sequence of Transmissible Gastroenteritis Virus Strain SC-Y	574
<i>Zhen-hui Song, Wan-zhu Guo, Yong Leng, and Shan-shan Ding</i>	
The Design and Implementation of the Wireless Power Transmission System of Video Capsule Endoscopy	578
<i>Shi Yu, Yan Guozheng, Jia Zhiwei, and Zhu Bingquan</i>	

The Determination and Analyze of the Heavy Metal Element in Farmland Soil Beside Ning-Lian Superhighway	582
<i>Hai-tao Xia, Yu-fen Liu, and Zhen Shun</i>	
The Development of Lignocellulose Anaerobic Fermentation Degradation Mechanism	585
<i>Yu-huan Liu, Guang-fei Qu, Qin Yin, and Ping Ning</i>	
The Effect of CCl ₄ -induced Acute Liver Injury on the ADAM8 Expression in the Mice	589
<i>San-Qiang Li, Hong-Ye Meng, Shou-Min Xi, Ling-Jun Ma, and Wu-Biao Yang</i>	
The Effects of Curcumin on the Proteome of L02 Cells	593
<i>Ping-Er Wang, De-Zhao Lu, Tao-Qi Lin, Ya- Li Wang, and Xing-De Wo</i>	
The Evaluation of Cell Respiratory Effect of Magnetic Nanoparticles Using Viability Assay and Chronoamperometric Method	597
<i>H.Y. Tsai, S.H. Tsai, H.W. Deng, and C.B. Fuh</i>	
The Improving Design of High Voltage Discharging Ozone Generating System	601
<i>Chao Li, Jun Yin, Xue-Long Zhang, Fu-Qian Guan, and Yan-Qian Zhong</i>	
The Left Ventricular Ejection Time Fraction Affects the Spectrum of the Arterial Pulse Wave: LVETF Affects the Spectrum of Arterial Pulse Wave	604
<i>Yuh-Ying Lin Wang, Jiang-Ming Chen, Chun-Chi Houng, Chi-Wei Chan, and Chien-Rong Lu</i>	
The Pharmacokinetics Study of Gossypol-acetate Enantiomers in Rat	607
<i>Huan Chen, Hui Tang, Xue Ying, Xudong Wu, and Manjing Jia</i>	
The PlantProm DB: Recent Updates	612
<i>Ilham Shahmuradov, Amina Abdulazimova, Farah Zaib Khan, Victor Solovyev, Nurmamed Mustafayev, Yagut Akbarova, Raheel Qamar, and Jalal Aliyev</i>	
The Preparation, Isolation, and Identify for the Isomers of Cefotiam Hexetil	615
<i>Wang Ronggeng, Zhao Yougui, Liu Nei, and Zhang Guanchao</i>	
The Relationship of Vegetation Phenology and Climate Precipitation Change in the North-South Transect of Eastern China	618
<i>Zhi Wang</i>	
The Research on Synthesis Methods of Anticoagulants	622
<i>Yujie Ren and Cheng Du</i>	
The Screening of Bio-flocculant -producing Bacteria and the Study of its Optimized Culture Conditions and Characteristics of the Bio-flocculant	626
<i>Suqin Song, Meiyi Gu, Jing Zhu, Qiyon Tang, Zhidong Zhang, Yuqing Xie, and Wei Wang</i>	
The Study of Drug Resistance of <i>C.Albicans</i> Biofilm to Chinese Medicinal Herb Sophora Flavescens and Liquorice	629
<i>Jian Li, Ailin Wang, and Jihan Wang</i>	

The Synthesis of Evodiamine	633
<i>Cheng-xue Wang and Yu Xiong</i>	
Three-Dimensional MRI-based Computational Fluid Modeling of the Left Ventricle for Patient before and after Surgical Ventricular Restoration	637
<i>Seyed Saeid Khalafvand, Eddie Yin-Kwee Ng, and Liang Zhong</i>	
Trace Metal Distribution and Correlation to Breast Cancer Progression and Metastasis Based on Synchrotron Radiation X-ray Fluorescence Imaging	641
<i>Yifan Xie, Jing Li, Ping Liu, Lisa X. Xu, and Jichao Zhang</i>	
Using Loop-mediated Isothermal DNA Amplification (LAMP) and Spectral Surface Plasmon Resonance (SPR) to Detect Methicillin-resistance <i>S. aureus</i> (MRSA)	647
<i>K.L.A. Yang, S.Y. Wu, H.C. Kwok, H.P. Ho, and S.K. Kong</i>	
UV Absorption Spectroscopic Study on the Interaction between Copper(II) Complex [Cu ₂ Cl ₄ (C17H ₂₂ N ₂) ₂] and Bovine Serum Albumin	651
<i>Yu-Fen Liu, Hai-Tao Xia, and De-Fu Rong</i>	

Biomedical Imaging and Signal Processing

3D Liver Segmentation and Model Reconstruction from CT Images	654
<i>Ya-Yun Cheng, Hsiao-Mei Chang, Hong-Ren Su, Shang-Hong Lai, Kai-Che Liu, and Chien-Hua Lin</i>	
A Comparative Study of a Calibration Method for Measuring the Dielectric Properties of Biological Tissues on Electrically Small Open-Ended Coaxial Probe	658
<i>Liang Zhang, Peiguo Liu, Xuetao Shi, Fusheng You, and Xiuzhen Dong</i>	
A New Lie Detection Method Based on Small-number of P300 Responses	662
<i>Junfeng Gao, NiNi Rao, Yong Yang, and Wenming Wei</i>	
A New Noninvasive Intracranial Pressure Measurement Instrument Based upon Multi-parameters Fusion Methods	666
<i>Zhong Ji and Chenglin Peng</i>	
A Novel Beat Detection Method for Blood Pressure Signals Using Slope Sum Mean Shift Technology	670
<i>Xiaochang Liu and Jia Liu</i>	
A Quantitative Method for Low-Index Ingredients in Traditional Chinese Medicine	674
<i>Yibin Chen, Wei Wang, Kui Chen, and Jiaxi Chen</i>	
A Segmentation Method of Coronary Angiograms Based on Multi-scale Filtering and Region-Growing	678
<i>Shan Wang, Bonian Li, and Shoujun Zhou</i>	
A Simple Method to Calibrate Projection Matrix of C-Arm Cone-Beam CT	682
<i>Fucang Jia, Yuan Li, Hongwei Xu, Xiaodong Zhang, and Qingmao Hu</i>	

A Smart Learning Tracking Machine for Tracking Multiple Fluorescent Molecules in the Presence of Photobleaching Effect	686
<i>Xiangyu Wang and Jiwei Li</i>	
A Spatiotemporal Simulation for Alzheimer's Disease	692
<i>Song-Yun Lu and Hsing Mei</i>	
A Tracking Algorithm Based on Fractional Differential Gradient within 3D Image	696
<i>Ma Yu, Zhang Yanning, Liang Huiling, Xu Shuang, and Yu Ting</i>	
A Watershed Method for MR Renography Segmentation	700
<i>Chun-yan Yu and Ying Li</i>	
Accurate Iris Location Based on Region of Interest	704
<i>Yan Li, Wen Li, and Yide Ma</i>	
Acoustic Source Reconstructions in Limited-View Magnetoacoustic Tomography with Magnetic Induction	708
<i>Lian Zhou and Shanan Zhu</i>	
An ECG Compression Algorithm Based on Gradient Difference for Body Sensor Networks	712
<i>Yuanguai Zhang and Y.T. Zhang</i>	
An Expression of Animal Abdominal Breathing Based on Intercept	716
<i>Bin Ji, Feng Qin, and Hongshen Liu</i>	
An Implementation of Optical Computed Tomography Algorithms with a Video Processor	720
<i>Xiong Wan and Zhimin Zhang</i>	
An Improved Reconstruction Method of MIT Based on One-Step NOSER	723
<i>Qiang Du, Baodong Bai, Peipei Pang, and Li Ke</i>	
An Unbiased Tissue Attenuation Coefficient Estimator Using Microbubble Echoes with Harmonic Ratio Compensation	727
<i>Sheng-Kai Tsao and Jenho Tsao</i>	
Analysis, 3D Reconstruction and Anatomical Feature Extraction from Medical Images	731
<i>Jan Barabas, Branko Babusiaik, Michal Gala, Roman Radil, and Martin Capka</i>	
Application of AIP and MIP CT on Individual GTV Delineation for Tumor Moving with Respiration	736
<i>Shuxu Zhang, Shengqu Lin, Hui Yu, Hainan Zhang, Guoqian Zhang, and Penghui Han</i>	
Application of Wavelet Transform in Detecting GABA Levels in Drug-naïve Patients with Major Depression Disorder	740
<i>Wen Ting Ren, Cheng Wang, Hong Quan, Su Lui, Si Han Chen, and Qi Yong Gong</i>	
Assessment of Diabetics with Various Degrees of Autonomic Neuropathy Using Power Spectral Analysis	744
<i>Chuang-Chien Chiu, Yi-Jiun Kuo, Ben-Yi Liau, and Shou-Jeng Yeh</i>	

Audiogenic Epilepsy—The Pathological Neural Net and Genetic Predisposition	747
<i>Irina Fedotova, Natalia Surina, Alexey Pospelov, and Inga Poletaeva</i>	
Automatic Rib Segmentation in Chest CT Volume Data	750
<i>Li Zhang, Xiaodong Li, and Qingmao Hu</i>	
Automatic Scanning by Scanning Electron Microscopy: The First Step towards Automation of Forensic Diatom Test	754
<i>Jinfeng Wen, Sunlin Hu, Chao Liu, Weilie Dai, Songcai Wang, Hui Fang Su, and Jian Zhao</i>	
Compressive Ultrasound Imaging Based on Analog to Information Conversion	758
<i>Yi Lv and Wentao Wu</i>	
Design of ECG Signal Acquisition and Processing System	762
<i>Zeli Gao, Jie Wu, Jianli Zhou, Wei Jiang, and Lihui Feng</i>	
Detect GGO Nodule Based on Dot Filter	765
<i>Shenshen Sun, Wenjuan Gu, Linan Fan, and Huizhi Ren</i>	
Detection of Clustered Pleomorphic Micro-Calcifications in Digital Mammograms	768
<i>Zhang Lifeng, Chen Ying, Zhang Fang, and Zhang Lu</i>	
Determination of Quinine with Phosphotungstic Acid Modified Ion Sensitive Field Effect Transistor Sensor	772
<i>Xianwen Li and Hefeng Xu</i>	
Diagnosis of Hepatic Fibrosis by Ultrasonic Image Analysis	775
<i>Guohui Zhou, Yuanyuan Wang, and Weiqi Wang</i>	
Digital Imaging Validation of Soft Tissue Phantom Deformation via Meshfree Method	777
<i>Hamed Ajabi Naeeni and Mohammad Haghpanahi</i>	
Dynamic Contrast-Enhanced Magnetic Resonance Angiography of Gd-TTDA-BOM and Gd-DTPA at 3T in a Normal Rat Model	781
<i>Jo-Chi Jao, Yen-Ku Chen, Twei-Shiun Jaw, Yun-Ming Wang, and Po-Chou Chen</i>	
Effects of Erlotinib after Acquired Resistance to Gefitinib in Advanced Non-small-cell Lung Cancer	784
<i>Jingjing Pan, Meiqi Shi, and Jifeng Feng</i>	
Electric Field Measurement for Biomedical Application—Characteristics of Raw Measurement Data	789
<i>Ichiro Hieda and Ki-Chang Nam</i>	
Electrolarynx Speech Enhancement Using a Minimum Mean-Square Error Spectral Amplitude Estimator	793
<i>Ya Bai, Ming Xi Wan, and Su Pin Wang</i>	
Exploration of Imaging Method of Degenerate Articular Cartilage Based on EPIC Micro-CT	797
<i>Yan Yan, Xiaofei Li, Xiran Cai, and Haijun Niu</i>	

Expressions of CD151, Integrin alpha3 beta1 and MMP7 in Breast Cancer Tissue Microarray and their Clinicopathological Significance	801
<i>Ting Liu and Wei Rong</i>	
Fabrication and Characterization of Large-Pixel Size OLEDs Used for Opto-Biomedical Analysis	806
<i>Nguyen Nang Dinh, Nguyen Duc Cuong, Tran Thi Thao, Do Ngoc Chung, Le Thi Hien, Tran Quang Trung, Vu Xuan Nghia, and Pham Duc Minh</i>	
Facial Image Quality Assessment Based on Support Vector Machines	810
<i>Pin Liao, Haixiang Lin, Pingping Zeng, Sixue Bai, Huimin Ma, and Siru Ding</i>	
Four-Dimensional Computerized Tomography (4D-CT) Reconstruction without an External Breath Surrogate	814
<i>Shu-xu Zhang, Hui Yu, Sheng-qu Lin, and Hai-nan Zhang</i>	
Human Brain Phantom Modeling Based on Relative Permittivity Dielectric Properties	817
<i>Kim-Mey Chew, Rubita Sudirman, Norhudah Seman, and Ching-Yee Yong</i>	
ICA-based Gene Expression Modules Exploring for Alzheimer's Disease	821
<i>Wei Kong, Shasha Li, and Xiaoyang Mou</i>	
Impact of Regular Physical Activity on Patterns of Age-Related Changes in Photoplethysmogram Appearance Obtained at Fingertip	825
<i>Lei Wang, Jin Zou, and Xiaomin Luo</i>	
Introduction on Microscopic Imaging Technique Based on CARS	829
<i>Wan Xiong and Wang Peng</i>	
Limited Angle Reconstruction Utilizing Improved Particle Swarm Optimization	834
<i>Chenlin Du, Junhai Wen, Donghao Shi, and Rui Yang</i>	
Near Infrared Fluorescent Probe Based on Bombesin Analogue for Tumor Diagnosis <i>in vivo</i>	837
<i>Shunyan Wan, Jie Cao, Changli Du, Xuemei Chi, Junmei Tian, and Yueqing Gu</i>	
Near-Infrared Imaging Approach for <i>in vivo</i> Detecting the Distribution of Human Blood Vessels	841
<i>Jin Yao, Jing Zhao, and Cui-ying Hu</i>	
New Extending Edge Method of Potential Field Data	845
<i>Chunguan Zhang, Minghua Zhang, and Yulin An</i>	
Nonlinear Normalization of Input Patterns to Handwritten Character Variability in Handwriting Recognition Neural Network	848
<i>Zahra Dehghan Doolab, Seyyed Ali Seyyedsalehi, and Narjes Soltani Dehaghani</i>	
One-Pot Synthesis of Multifunctional Magnetite Hollow Nanospheres	852
<i>Dung The Nguyen and Kyo-Seon Kim</i>	
Optimal Transmission Frequency Selection Base on Scattering Cross Section for Ultrasound Contrast Harmonic Imaging	856
<i>Ming-Huang Chen and Jenho Tsao</i>	

Optimization Algorithm for Hepatic Tumor Microwave Ablation	860
<i>Haiming Ai, Shuicai Wu, Hongjian Gao, Yi Zeng, and Haibin Ai</i>	
Real-time PCR and Immunohistochemistry Detecting the Expression of PETA-3 in Breast Cancer and the Clinical Significance	864
<i>Ting Liu, Li Zhou, and Wei Rong</i>	
Receptive Field Infrastructure Restructuring of Visually Driven Neurons of Extrastriate Area 21a	868
<i>D.K. Khachvanyan, J.A. Kozak, A.B. Sharanbekyan, A.L. Ghazaryan, and B.A. Harutiunian-Kozak</i>	
Reconstruction of Estimated Brachial Pressure from Finger Pressure Wave with Robust Artificial Neural Network	871
<i>Youfei Cai, Jia Liu, Pandeng Zhang, and Xiaochang Liu</i>	
Removal of Non-uniform Stripe Noises from AFM Images	876
<i>Jean-Luc Pellequer, Yen-hao J. Chen, and Shu-wen W. Chen</i>	
Research of Cardiac Aided Diagnosis System Based on CUDA	880
<i>Yu-ke Chen, Xiao-ming Wu, Shan-xin Ou, Hai Chen, and Rong-qian Yang</i>	
Research of Hand Vein Patterns Recognition for Biometric Identification	884
<i>Xiangping Zeng and Weidong Jin</i>	
Segmentation of Retinal Blood Vessel by Merging Shape, Region and Edge Information	888
<i>Yongchuan Tang and Ping Zhou</i>	
Simulated Nerve Signal Generation for Multi-electrode Cuff System Testing	892
<i>A. Al-Shueli, C.T. Clarke, and J.T. Taylor</i>	
Studying on Conductivity of Cardiac Tissues in Magnetocardiography	897
<i>Chen Zhao, Wei Zhang, and Shiqin Jiang</i>	
Support Vector Machine Classification of Parkinson's Disease, Essential Tremor and Healthy Control Subjects Based on Upper Extremity Motion	900
<i>Patrick M. Aubin, Artūras Serackis, and Julius Griškevičius</i>	
Texture Analysis and Volumetry of Hippocampus and Medial Temporal Lobe in Patients with Alzheimer's Disease	905
<i>Hong Xia, Longzheng Tong, Xiaoxia Zhou, Jing Zhang, Zhen Zhou, and Weifang Liu</i>	
Texture Feature Analysis of Ultrasonic Images with Wryneck	909
<i>Hsiao-Mei Chang, Ya-Yun Cheng, Hong-Ren Su, Shang-Hong Lai, Chu-Hsu Lin, and Hung-Chih Hsu</i>	
TGF-Beta and CTGF Mediated Signal Transduction Pathway and Fibrosis	913
<i>Jingrui Tian, Fang Yang, and Huiqin Liu</i>	
The Design of a Rehabilitation Training System with EMG Feedback	917
<i>Guangji Sheng, Li Wang, Dengrong Ma, Fan Fan, and Haijun Niu</i>	

The Effects of Operational and Emotional Mental Stress on the Cardiovascular Response	921
<i>Wencai Zhang, Jianbin Wang, and Hong He</i>	
The Electrochemical Impedance Recognition for Two Heme Proteins on dsDNA/PGA/GCE	925
<i>Rongrong Zhang, Chunqing Xie, Yayun Zhu, Liangjun Pan, and Changying Yang</i>	
The Relationship between Mental Stress Induced Changes in Cortisol Levels and Vascular Responses Quantified by Waveform Analysis: Investigating Stress-Dependent Indices of Vascular Changes	929
<i>Li Luo, Lijun Xiao, Danmin Miao, and Xiaomin Luo</i>	
The Research of Lung Sound Signals Based on Cepstrum Analysis	934
<i>Benjin Wang, Lei Miao, Huiying Dong, and Zeguang Zheng</i>	
The Research on Doppler Ultrasonic Blood Flow Signals under Periodically Pulsatile Flow Based on STFT	939
<i>Lifang Wang and Xiaohua Zhou</i>	
Time-Frequency Domain and Spectrogram Distribution for Human Motion and Movement Behaviour Analysis	943
<i>Ching Yee Yong, Rubita Sudirman, Nasrul Humaimi Mahmood, Kim Mey Chew, Ahmad Hazwan AB Rahim, and Muhammad Nur Hafizuddin Zainudin</i>	
Topical Application of Melatonin Analogue Neu-P11 Reduces Intraocular Pressure in Normotensive Rabbit	947
<i>Shou-min Xi, San-qiang Li, and Wei-dong Yin</i>	
Understanding Coupling and Synchronization in EEG of Epileptic Discharge Using Recurrence Plots with Varying Threshold	951
<i>Ashish Kaul Sahib and N. Pradhan</i>	
Validating CT-assisted Region of Interest Acquisition Method in 99mTc-DTPA Scintigraphy for Patients with Low Renal Function	955
<i>Can-can Tian, Qiu Huang, Yuan Han, and Xiaoguang Sun</i>	
Cellular and Tissue Engineering	
A Further Study on Short Term Memory Improvement by Neurofeedback	959
<i>Wenya Nan, Joao Pedro Rodrigues, Feng Wan, Peng Un Mak, Pui In Mak, Mang I. Vai, and Agostinho Rosa</i>	
A Hybrid Electrokinetic-Microfluidic Chip for Isolating CTCs in Physiological Sample	962
<i>Yu Liu, Ningning Song, Juan Dang, Hairong Chen, Dong Yang, Jian Gao, Dajun Song, Tianzhu Yang, and Hongxiao Tian</i>	

A Novel Strategy by Using Synovial Membranes, Cartilage Fragments and Mesenchymal Stem Cells for Cartilage Tissue Engineering: A Novel Strategy for Cartilage Tissue Engineering	965
<i>Chia-Chun Chen, Jia-Si Hu, Hsu-Wei Fang, and Chih-Hung Chang</i>	
Analysis of Sonoporation on Cell Membrane by Scanning Electron Microscopy	968
<i>Hao Yu and Siping Chen</i>	
Application of Electrospun Poly[(R)-3-hydroxybutyrate-co-(R)-3-hydroxyvalerate]-Ecoflex Mats in Periodontal Regeneration: A Primary Study	972
<i>Anhui Wang, Yunna Gan, Juan Qu, Baixiang Cheng, Fang Wang, and Hao Yu</i>	
Baculovirus-Mediated Gene Delivery for Bone Engineering	976
<i>Yu-Chen Hu and Chin-Yu Lin</i>	
Cloning and Sequence Analysis of Rongchang Porcine Interferon-gamma Gene	978
<i>Shan-shan Ding, Yong Leng, and Zhen-hui Song</i>	
Comparison of Inhibitory Effects of Nine Flavonoids on Prostaglandin E2 Production and COX-2 Expression in LPS-Stimulated RAW264.7 Macrophages	981
<i>Yirong Xu, Changlu Wang, Longyan Wu, Zhenjing Li, Mianhua Chen, Yurong Wang, Fengjuan Li, and Cheng Luo</i>	
Construction of a Eukaryotic Expression Vector pEGFP-C1-BMP-2	985
<i>Yuemin Ding, Zhonghua Chen, Xiong Zhang, Qiang Xia, and Xiaoying Wang</i>	
Construction of a Recombinant Major Royal Jelly Protein 1 (MRJP1) Expression Vector for Mammary Gland-Specific Expression	988
<i>Xin Ma, Shubao Yang, Wei Jin, Yunjiao Zhao, Hongxia Ma, and Weimin Luan</i>	
Construction of Ginseng CS Gene RNA Interference Plant Expression Vector	992
<i>Mu-yang He, Hao-jie Cao, Le Wang, and Shou-jing Zhao</i>	
<i>De Novo</i> Obtained Nanosize Matrix Carrier Substances Ingel Form for Human Stem Cells Cryopreservation, Transportation and Cultivation	996
<i>Elena V. Orlova and Evgeny I. Maevsky</i>	
Detection of <i>Salmonella choleraesuis</i> by Loop-mediated Isothermal Amplification	999
<i>Huan Yin, Qi Li, Lieju Liu, Jiangyuan Chen, Lan Wang, and Zhiguo Liu</i>	
Development of an <i>in vitro</i> Grafting Method for the Enhancement of Growth of Isolated Shoots and Buds in Soybean (<i>Glycine max L.</i>)	1003
<i>Ying Liu, Lei Yu, You-Liang Fu, Zhen-Fei Guo, Hai Nian, and Yue-Sheng Yang</i>	
Dynamic Analysis of the Peripheral Vessel of a Human Finger by Optical Coherence Tomography	1007
<i>Masato Ohmi, Mitsuo Kuwabara, and Masamitsu Haruna</i>	
Effect of Astragalus, Ganoderma A Lucidum and Lycium Polysaccharide on Zebrafish Senescence	1010
<i>Guangqing Xia, Junyi Zhu, Jinzhi Song, Jiamei Qin, Xiaojuan Han, and Wei Liu</i>	

Effects of Combinational Stimulation on Differentiation of MSCs into Osteoblasts	1012
<i>Kang Jin Jeon, Yun Gyeong Kang, So Hee Park, Ji Won Shin, Seon Yeon Kim, Jin-Sook Hyun, and Jung-Woog Shin</i>	
Effects of Lactobacillus Strains on Colon Cancer Cell Proliferation and Cell Cycle Blockage	1015
<i>Shumei Wang, Lanwei Zhang, and Wei Gu</i>	
Effects of Low Power 2450MHz Magnetic Field on Characteristics of Delayed Rectifier Potassium Current of Cortical Neurons	1019
<i>Yang Zhang, Yu Zheng, Jinhai Wang, Zizhao Zhang, Yue Wei, and Gengbo Liu</i>	
Expession of Microneme Protein 4 from Eimeria tenella in the Methylotrophic Yeast Pichia pastoris	1022
<i>Zhou Sai, An Jian, Zhang Peng, and Wang Lixia</i>	
Expression of Alpha-smooth Muscle Action in Goat Temporomandibular Joint Disc and Its Effect on Self-Assembled Engineered Constructs	1026
<i>Hong Kang, Mengyi Qi, and Guangjie Bao</i>	
Fabrication of Nanopatterned Surfaces for Tissue Engineering	1030
<i>Eun Ju Jeong, Jin Wook Lee, Soo-Jeong Yeon, Jae-Won Lee, Young-Je Kwark, Sang-Hoon Rhee, Won Ho Park, Seung Hyun Kim, and Kuen Yong Lee</i>	
Fast Determination of Active Components in Scutellaria Extract by NIRS Combined with PLS	1034
<i>Yan Bai, Wei Zhang, Cai-xia Xie, Xing Wang, Zhi-hong Chen, and Hai-yan Gong</i>	
Immunogenicity by Aggregation of Therapeutic Proteins from Ultraviolet Radiation Produced in the Human Body by Nanoparticles of the Aggregates Themselves	1038
<i>Thomas Prevenslik</i>	
Investigation on Thermoluminescence of Al ₂ O ₃ :C and LiF:Mg,Cu,P to Natural Background Radiation	1042
<i>Li Yongqiang, Chen Jingmin, Xiong Zhengye, Wang Wenhua, Tang Zhao, Shi Wenqing, and Li Shiping</i>	
Isolation and Culture of Northeastern Wild Boar Ear Skin Fibroblasts	1045
<i>Zhongqiu Li, Jianzhang Ma, Chunlong Liu, Zhongqiu Li, Di Liu, Fugang Peng, Hong Ma, Bo Fu, Liang Wang, Jinyan Sun, and Wentao Wang</i>	
Locating Optimal Electrodes Placement via Microelectrode Recording in General Anesthetic Patients During Deep Brain Stimulation	1048
<i>Wei-Yi Chuang, Kuu-Young Young, Paul C.P. Chao, Sheng-Tzung Tsai, and Shin-Yuan Chen</i>	
Mesenchymal Stem Cells Therapy for H9N2 Avian Influenza Viruses Induced Acute Lung Injury in Mice	1052
<i>Yan Li, Ying Chi, Qian Bian, Tian Wen, and Wenshuai Zhang</i>	

Micropagation by Repeatedly Inducing Axillary Bud Formation of Different Gene Dosage Purple Coneflower Plants	1056
<i>Rong Chen, Xiao-Lu Chen, Qing-Ling Li, Yue-Sheng Yang, and Hong Wu</i>	
Molecular Cloning, Characterization and Functional Analysis of the Genes Encoding DXR and DXS, the Two Enzymes in the MEP Pathway, from <i>Amomum villosum</i> Lour.	1060
<i>Jinfen Yang, Megha Nath Adhikari, Hui Liu, Guozhen He, Hui Xu, Ruoting Zhan, and Weiwen Chen</i>	
Molecular Mechanisms of Two-Component System GacS/GacA in Plant-Pathogenic Bacteria	1066
<i>Liwei Zhou, Jinzhi Song, and Bing Wang</i>	
Numerical Simulation of Descending Curves Sinusoidal Microchannel for Cell Separation System	1070
<i>Muhammad Waseem Ashraf, Shahzadi Tayyaba, Muhammad Ishaque, and Nitin Afzulpurkar</i>	
Potential for Hydrogel Composites Containing Carbon Nanobrushes in Cellular Engineering	1074
<i>William H. Marks, Sze C. Yang, George W. Dombi, and Sujata K. Bhatia</i>	
Real-Time Fall Detecting System Using a Tri-axial Accelerometer for Home Care	1077
<i>Chien-Cheng Lan, Ya-Hsin Hsueh, and Rong-Yuan Hu</i>	
Recombinant Human Granulocyte-colony Stimulating Factor Prevents Cognition Impairment with Chronic Cerebral Ischemia by Promoting Astrocyte Proliferation and Anti-apoptosis in Rats	1081
<i>Wei Liu, Xi-ji Shu, and Yong-xun Ai</i>	
Silicon Nanowire Based Immunoassay for the Detection of Prostate Cancer Biomarkers	1086
<i>Min-Ho Lee, Wookyeong Seong, Sangdae Lee, and Kyungsik Kim</i>	
Synthesis and Evaluation of a Folate-linked Anti-cancer Prodrug	1089
<i>Du Changli, Tian Junmei, Wan Shunan, Cao Jie, Chi Xuemei, and Gu Yueqing</i>	
The Biological Effects and Mechanisms of Foxp3 in Lewis Lung Cancer Cell	1093
<i>Li Chun, Song Yang, Zhang Fengchun, and Gai Xiaodong</i>	
The Culture and Identification of Melanocytes in Melasma Skin	1097
<i>Jianbing Tang, Biao Cheng, Qin Li, Jun Chen, and Wenlin Yu</i>	
The Design of a Multi-parameter Monitoring System during Anesthesia	1101
<i>Xiuquan Fu, Jing Liu, Xuan Wang, Chao Huang, Xinzhong Chen, Hang Chen, and Shuming Ye</i>	
The Development of Neural Ischemia Tolerance Model Induced by NGF Combined with OGD in PC12 Cells	1105
<i>Chunli Mei and Huimin Liu</i>	

The Effect of VHS Specific siRNA on Herpes Simplex Virus-1 Replication	1109
<i>Liyuan Sun, Limei Liu, Yundong Zhao, and Ming Yang</i>	
The Effects of Short Period Mechanical Loading on Type I Collagen and Aggrecan mRNA Expression of Goat TMJ Disc Fibrochondrocytes	1113
<i>Hong Kang, Ermei Peng, and Guangjie Bao</i>	
The Effects of Substrate Stiffness and Intermittent Hydrostatic Pressure during Osteogenic Differentiation	1117
<i>Jin-Sook Hyun, Seon Yeon Kim, Ji Won Shin, So Hee Park, Yun Gyeong Kang, Kang Jin Jeon, and Jung-Woog Shin</i>	
The Effects on Flow-induced Shear Stress on the Maintenance of Stemness of Limbal Stem Cells	1121
<i>Yun Gyeong Kang, Su-Hyang Kim, Ji Won Shin, So Hee Park, Kang Jin Jeon, Seon Yeon Kim, Jin-Sook Hyun, and Jung-Woog Shin</i>	
The Involvement of GRP78 on Estrogen Signaling in Gastric Cancer	1125
<i>Zhengqi Fu, Hao Deng, Ying Chen, and Lijiang Liu</i>	
The Study on the Relationship between PD-1/PD-L1 mRNA Expression and Progression in HIV/AIDS Patients	1129
<i>Yan-ling Wu, Yan-ping Ding, Lei Cheng, Jian Gao, Dong-liang Xie, Jing Liang, and Wen Zhang</i>	
Trichostatin A Affects Breast Cancer Cell Viability by Modulating Fhit and Survivin Expression	1133
<i>Limei Liu, Chunhe Li, Dapeng Yang, Na Sun, and Wei Xia</i>	
Ultrasonic Hydrophone's Effective Aperture Measurements	1136
<i>Sumet Umchid and Theera Leeudomwong</i>	

Environmental Biotechnology

0-1 Mixed Integer Programming for a Newly Merged Metropolis to Develop MSW Management Systems	1140
<i>Edward Ming-Yang Wu and Li-De Shie</i>	
A 1-D Aquatic Ecosystem/Ecotoxicology Model in Open Channels	1144
<i>Podjanee Inthasaro and Weiming Wu</i>	
A Case Study of Heavy Metal Assessment in Agriculture Soil	1148
<i>Chun-lie Ouyang, Yun-xiao He, Bin Zhu, Yu Meng, Dan He, and Wei-wei Gan</i>	
A Comparison of Detection Probability of CUSUM Procedures under Increasing Population Sizes	1152
<i>Honghao Zhao, Lianjie Shu, Wei Jiang, and Kwok-Leung Tsui</i>	
A Distribute Hydrological Model Integrated with a Web-based Geographic Information System	1156
<i>Rui-Juan Liu</i>	

A GM (1,1)-Markov Model for Forecasting CODMn in a Eutrophicated Lake	1160
<i>Peiyu Liang, Xuan Wang, and Fangbing Ma</i>	
A New Drug Risk Assessment Model of Comprehensive Hospitals	1165
<i>Chengyi Zhang, Weixia Li, and Hua Yang</i>	
A Pilot-scale Experimental Research on Nutrient Matter Removal in a Modified SBR	1169
<i>Jun Li, Li-min Wang, Xue-bin Li, and Jiong-hui Li</i>	
A RS/GIS-Based System for Weed Disasters	1172
<i>Ling Sun and Zesheng Zhu</i>	
A Wearable Wireless General Purpose Bio-signal Acquisition Prototype System for Home Healthcare	1176
<i>Junwei Duan, Changhao Chen, Sio Hang Pun, Feng Wan, Peng Un Mak, Yong Hu, Pui In Mak, Mang I. Vai, and Yong Hu</i>	
Adsorption Removal of Copper, Zinc and Cadmium in Aqueous Solutions and Road Runoff by Carbonized Mulch: Heavy Metal Removal by Carbonized Mulch	1180
<i>Xiao-Jun Zuo, Da-Fang Fu, and He Li</i>	
Air Quality Assessment of Ontario Using an Open Source Decision Support System	1186
<i>Samira Muhammad</i>	
Amino Acids and Essential Trace Elements of Four Snakegourd (<i>Trichosanthes kirilowii</i> Maxim) Seed Meals	1190
<i>Zijing Zhou and Shimin Wu</i>	
An Extension-Matter-Element Model-Based Estimation of City Ecosystem Health	1194
<i>Gui-bin Suo</i>	
An Immunoassay for Determining Aflatoxin B1 Using a Recombinant Phage as a Non-toxic Coating Conjugate	1197
<i>Ren-rong Liu, Ling Xu, Xue-mei Qiu, Xing-long Chen, and Li-xing Zhu</i>	
An RS Image-Fusion Approach to Farmland Fertility	1201
<i>Ling Sun and Zesheng Zhu</i>	
Anaerobic Baffled Reactor (ABR) for Alkali-minimization Dyeing-printing Wastewater Biodegradation	1205
<i>Qijun Zhong and Bo Yang</i>	
Analysis of Key Factors for Sulfation Rate in Urumqi, NW, China	1209
<i>Jiang Wei and Hai-zhen Zhang</i>	
Analysis of Microelements on Liver Injury in Mice Induced by Formaldehyde	1213
<i>Jing-hong Yu, Jing Zhang, Huan Li, and Wei-qian Sun</i>	
Analysis on Water Consumption and Conservation of Petrochemical Industry in China	1217
<i>Yajun Zhang, Ping Xu, Jing Wang, Cuimin Feng, and Tao Chen</i>	
Antioxidant Effect of Phenolic Fractions from <i>Scrophularia ningpoensis</i> Hemsl	1221
<i>Jun Chang</i>	

Application of Fuzzy Clustering Iterative Model in Classification of Geologic Environment Quality	1224
<i>Xuefeng Yu and Zhongyuan Zhang</i>	
Artificial Neural Network (ANN) for Multi-source PM2.5 Estimation Using Surface, MODIS, and Meteorological Data	1228
<i>Ling Yao, Ning Lu, and Sheng Jiang</i>	
Assessing Cancer Risk of Coal-Fired Power Plant Workers Exposed to PAHs	1232
<i>Bin Li, Zhaolong Zhang, Haitao Fan, and Cheng Zeng</i>	
Assessment of the Straw Resource Recovery Using Thermal-Plasma Solid-Waste Treatment Technology	1236
<i>Xin Liu, Sheng-li Li, and Ming-shu Li</i>	
Atmospheric Transports of Wildfire Smoke from Moscow and Surrounding Regions in 2010 Summer	1240
<i>Guanghan Huang, Tiantao Cheng, Ling Li, Chunpeng Leng, and Zhaoqin Zhu</i>	
Ballast Water Treatment by Using Porous Ceramic Filter and UV Radiation Combination	1244
<i>Xia-Zhang Man, Li Na, Mei-Wu Xiao, Yu Ran, Min-Zhu Yi, and Dong-Yang Xiao</i>	
Cancer Risk Assessment of Volatile Organic Compounds in an Ornament Market in Tianjin, China	1247
<i>Shuang Gao, Zhi-Peng Bai, Xiu-Yan Wang, Bin Han, and Zhao Wang</i>	
Characteristic of Lead Content in Soil and Crop in Zhaoyuan Gold Mine Area	1251
<i>Zhang Lei</i>	
Characteristics of Environmental Incidents and Environmental Risk Management in China	1255
<i>Sha Xu, Yuanzheng Zhai, Jinsheng Wang, Yanguo Teng, and Shuhui Jia</i>	
Characteristics of Temporal-spatial Distribution of Extreme Temperature Events over China in Different Climate States against the Backup of MPT	1260
<i>Zhong-Hua Qian and Guo-Lin Feng</i>	
Characterizing the Spatiotemporal Pattern of Land Use and Cover Change in Oujiang River Basin, China	1264
<i>Chi Xu, Junyu Lu, Chao Hong, Junjie Li, Fenfei Chen, and Maosong Liu</i>	
Chitosan Modified Permutite as Adsorbent for Zinc Ions Removal from Drinking Water	1268
<i>Li Peng and An-Quan Dai</i>	
Color Detection for Some Transition Metal Ions by a Modified Chitosan Transparent Thin Membrane in Aqueous Solutions	1272
<i>Wei Ma, Zihong Cheng, Xiaoshuai Liu, Zhanxian Gao, and Fujun Liu</i>	

Comparison and Selection of the Method for Reconstructing Tritium Concentration Series in Precipitation	1275
<i>Hui Guo, Yuanzheng Zhai, Jinsheng Wang, and Yanguo Teng</i>	
Comparison of the Major Flavonoid Content of Raw and Steamed <i>Scutellariae Radix</i> by High-Performance Liquid Chromatography	1279
<i>Chunhao Yu, Jie Wu, Haijiang Zhang, and Hongzhi Wang</i>	
Considerations on Improvement of Electric Power Supply in Agricultural and Pastoral Areas of East-Tibet	1284
<i>Di-kang Xiao</i>	
Copolymerization of Chitosan Selectively Grafted by Polyethylene glycol as DNA Delivery Vectors	1288
<i>Ruo-hui Li, Fei Xie, Yan-ling Cheng, and Dan-tong Shan</i>	
Culture of Sika Deer Antler Perichondrium Cells and the Effects of SB-431542 on Its Proliferation	1292
<i>Yuan Zheng, Shoutang Wang, Xuechao Tian, Dangdang Li, Bin Guo, and Zhanpeng Yue</i>	
Current Situation of Safe Drinking Water in Rural Area of China and Its Solutions	1295
<i>Xiao-ling Lei, Jun Wu, Hai-Yan Wang, and Tao Jiang</i>	
Cytotoxicity of Uncoated Ferroferric Oxide Nanoparticles in Vascular Endothelial Cells	1300
<i>Jing Zhang, Weiqi Sun, Cheng Yu, and Zhiwei Sun</i>	
Decomposition of Epoxy Resin E-44/METHPA by Tetrahydronaphthalene	1304
<i>Yuyan Liu, Xianyun Gong, Songquan Wu, Lan Li, and Xianyun Gong</i>	
Denitrification of Nitrate-Contaminated Water Using Poly(3-Hydroxybutyrate-co-3-Hydroxyvalerate) as Carbon Source	1307
<i>Lijiao Sun, Lanhe Zhang, and Xuming Wang</i>	
Design and Implementation of a Comprehensive Information System for Detection of Urban Active Faults	1311
<i>Li-zhen Lu, Han-Kui Zhang, Xian-Li Sha, and Hong-Hai Wu</i>	
Determination of Bisphenol A Using Chemiluminescence Combined with Flow Injection	1315
<i>Xiaoxiang Qiu</i>	
Determination of Platinum Group Elements in Human Urine and Hair Samples by Inductively Coupled Plasma Mass Spectrometry	1318
<i>Hong Qiang, Ran Li, Xiaoxia Ju, and Ruohua Zhu</i>	
Development and Validation of a Portable AOTF-NIR Measurement Method for the Determination of Baicalin in Yinhuang Oral Solution	1322
<i>Zhisheng Wu, Min Du, Chenglin Sui, Bing Xu, Yanfang Peng, Xinyuan Shi, and Yanjiang Qiao</i>	

Development of KM System for Intergrated Management of Water Resources and Environment in Zhangweinan Subbasin, China	1327
<i>Weidong Yu, Chunhui Li, and Junxiang Jia</i>	
Development of EST-SSR Primers and Genetic Realtionships Revealed in Tree Peony	1331
<i>Dalong Guo, Xiaogai Hou, and Juan Wang</i>	
Differential Expression and Regulation of Angiopoietin-1 in Mouse Ovary during Sexual Maturation and Luteal Development	1335
<i>Xuechao Tian, Shoutang Wang, Dangdang Li, Lu Zhang, Zhikun Bai, Bin Guo, and Zhanpeng Yue</i>	
Discussion on Division of Pattern of Phosphorylation to Produce ATP	1339
<i>Gan Zhao</i>	
Discussion on the Innovation of Wall Body Material	1343
<i>Zhi-Neng Tong</i>	
Dissolved Organic Nitrogen (DON) Transformations in Typical Orbital Oxidation Ditch	1345
<i>Bing Liu and Guozhong Yu</i>	
Distribution and Occurrence of Mercury in Coal of China and Its Effect on Environment	1350
<i>Zhou Qiang</i>	
Distribution of Heavy Metal Concentration of Sewage Sludge in China	1354
<i>Xiao-Ying Wu, Jin-Ye Li, Ming Zhang, and Ming-Juan Shi</i>	
Domestic Wastewater Treatment Using Sequencing Batch Biofilm Reactor in Low Temperature	1357
<i>Jinte Zou, Longqiang Ma, Zhiqiang Su, Danli Huang, and Jun Li</i>	
Driving Effect of Human Activity on the Environmental Change of the Sancha Lake	1361
<i>Bin-yang Jia, Ya Tang, Yan-hong Wu, and De-sheng Yin</i>	
Dry and Wet Deposition of Inorganic Nitrogen at Urban and Rural Sites in a Semi-arid Environment	1367
<i>Kai-Hui Li, Wei Zhang, Jian-Lin Shen, Xiao-Sheng Luo, Yu-Kun Hu, Chang-Yan Tian, Peter Christie, and Xue-jun Liu</i>	
Ecological Exploration of Urban Planning	1371
<i>Wen-qi Lin and Xiao-jin Zheng</i>	
Ecological Loss Analysis of Water Environment of Arid Area of Northwest China during Highway Construction	1375
<i>Fang Wang</i>	
Effect of Different N Management Strategies on Soil Nitrate Leaching in a Wheat-Maize Rotation System in the Piedmont Plain of Taihang Mountain	1378
<i>Shi-you Sun, Guo-yin Zhang, Meng-chao Liu, Shu-hua Ru, Liang-liang Jia, Ling Wang, Nuan Geng, and Hu-Qun Li</i>	

Effect of Land Use and Fertilization on Soil Microbial Abundance and Diversity in the Black Soil Region in Northeast China	1383
Yan-Li Xu, Li-Li Zhan, Qing-Jie Meng, Feng-Juan Pan, Neil B. McLaughlin, Xin-Hua Han, Xi-Chao Pei, Xiao-Zeng Han, Li-Fang Wang, and Dan Zhao	
Effect of Temperature, Salinity, and pH on the Adsorption of Lead by Sediment of a Tidal River in East China	1389
Ming Zhang, Chi-Cheng Jin, Li-Heng Xu, and Tao Ding	
Effects of Chicken Manure Application on Crop Yields and Soil Nutrients Accumulation in Wheat-Corn Rotation System	1392
Shu-Hua Ru, Guo-Yin Zhang, Jun-Fang Niu, Shi-You Sun, Ling Wang, and Nuan Geng	
Effects of Different Medium Proportion on <i>Carya cathayensis</i> Containerized Seedling Growth	1397
Zheng Jia Wang, Hui Cheng, Junjun Shi, Jian Qin Huang, Song Heng Jin, Bing Zhang, and Bing Song Zheng	
Effects of Environmental Factors on the Seasonally Change of Chlorophyll-a in Eutrophic Plateau Lake Dianchi, China	1401
Li Liu, Yue Feng, Ming Xu, An Xiang, Xuejun Pan, and Xueshan Xia	
Effects of Environmental Factors on the Soil Nitrogen Transformation in Terrestrial Ecosystems	1404
Hui Wang, Shan-Shan Zhang, Li-Yuan Yang, Qing-Lin Chen, and Bao-Shan Yang	
Effects of Heat Stress on the Reproductive Performance of Mammalians	1408
Tang Jia, Xie Jia, and Chen Zhong	
Effects of Injector Configuration on a DISI Methanol Engine	1412
Changming Gong, Jinglong Jia, and Zilei Zhang	
Effects of Long-Term Fertilization on Calcareous Cinnamon Soil Fertility and Crop Yield of Northern China Plain	1416
Guo-yin Zhang, Shu-hua Ru, Nuan Geng, Ling Wang, Shi-you Sun, and Hu-quan Li	
Effects of Nitrogen Nutrient on Agronomic Traits of Cotton in Different Planting Pattern	1421
Wen-Li Qin and Zhong-Kuan Liu	
Effects of <i>Nostoc flagelliforme</i> on Soil Physical-Chemical Properties and Microbial Community	1426
Hui Zhao, Jing Liu, Qi Dou, and Jianyu Su	
Effects of Perfluorooctane sulfonate (PFOS) on Physiological Status and Proliferation Capacity of <i>Chlorella pyrenoidosa</i>	1431
De-Yong Zhang, Xiao-Lu Xu, and Xiu-Ying Shen	
Electrosorption of Inorganic Ions from Aqueous by Carbon Electrode	1435
Zhao-Lin Chen, Hong-Tao Zhang, Chun-Xu Wu, Lei Gao, Yu-Shuang Wang, Fang-Qin Xue, and Mo-Han Sun	

Entropy Method for Risk Zoning of Provinces in China Subjected to Pb Contamination	1440
<i>Tan Zhou, Hongguang Cheng, Qian Li, Lu Lu, Yiting Chen, Jing Xie, and Xuelian Liu</i>	
Environmental Protection by Elevated Indoor Temperature of Air Conditioning System	1445
<i>M.L. Fong</i>	
EST-SNP Analysis of Grape (<i>Vitis vinifera L.</i>) by CAPS Marker	1449
<i>Dalong Guo and Meng Li</i>	
Experimental Research on Combination Technics of Geotextile Tube in Mud Dewatering for Environmental Dredging Project	1453
<i>Bao-an Hu and Wen-xue Fan</i>	
Experimental Studies of the Toxicological Responses in Mice Liver after Repeated Exposure to BDE-209	1459
<i>Shu-xuan Liang, Hong-xia Gao, Han-wen Sun, Ning Gao, and Yan-yan Zhao</i>	
Exploration on the Large Woody Debris's Influence on the River Ecological Health	1463
<i>Bing Tan, Dao-han Wang, and Si-jing Feng</i>	
Exploring Relationship between Landscape Pattern and Water Quality in the Jiulong River Basin, Southeast China	1467
<i>Ya-Ling Huang and Jin-Liang Huang</i>	
Exposure to Ambient Polycyclic Aromatic Hydrocarbons on Citizens in Tianjin, China	1471
<i>Xin-Rong Li and Yan-Xin Yu</i>	
Expression of Gastric Mucosa Trefoil Factor Family 2 and Epidermal Growth Factor during Healing of Experimental Gastric Ulcer in Rats	1475
<i>Jing Zhang, Jing-fang Wu, Tao Fang, and Yi-teng Ma</i>	
Expression of TGF Beta Receptor 1 in Sika Deer Antler	1479
<i>Lu Zhang, Xuechao Tian, Shoutang Wang, Dangdang Li, Bin Guo, and Zhanpeng Yue</i>	
Forensic Determination of Toxication of <i>Strychnos Nuxvomica</i>	1482
<i>Xi-ji Shu, Wei Liu, and Shu-xiu Zhu</i>	
Fouling in Circulating Cooling Water System	1486
<i>Ping Xu, Yajun Zhang, Xiaodong Liu, and Ting Liu</i>	
Four-dimensional Ultrasonography Measured Lung Volume in Predicting Pulmonary Hypoplasia of Fetus	1490
<i>Ji-Dong Liu, Gong Bing, and Chao Xue</i>	
Heavy Metal Signatures of Highly Anthropogenic Developments from the Dongjiang River Basin in Southeastern China	1493
<i>Zhen-yu Ding, Yuan Jiang, Jian-yu Liao, Qiu-zhi Peng, Le-ting Lv, and Chu-tao Zheng</i>	
Heavy Metals in Greenhouse Vegetable Soils in Beijing: Accumulation Characteristics of Copper and Cadmium	1499
<i>Hui-zhi Zhang, Hong Li, Zhi Wang, and Lian-di Zhou</i>	

Heavy Metals in Water, Soil and Aquatic Plants from a Rice-Crab Production Base of the Liao River Delta	1503
Xiaoyun Chen, Fuyu Sun, Wentao Sun, Fengquan Yu, and Zhiqiang Li	
High Solid Anaerobic Co-digestion Pilot Scale Experiment of Kitchen Waste and Cow-dung	1506
Lei Feng, Yan Chen, Rundong Li, and Jie Xu	
Human Ecosystem Prediction Control with Dynamic State Equations	1510
Lei Yan, Bo-Ren Luo, and Si-Jie Liu	
Human Toxicity Assessment of Polycyclic Aromatic Hydrocarbons in Landfilled Sewage Sludge: Improving LCIA Characterization Factor of PAHs in Landfilled Sewage Sludge	1514
Jinglan Hong and Xiangzhi Li	
Impacts of Wenchuan Earthquake-Induced Landslides on Tree Organ Nutrients	1518
Song Cheng, Hui Yu, Gang Yang, Ren Yang, Yuxian Liu, Zhongyou Zhang, Gang Xiong, Bo Peng, Yongheng Gao, and Jiyue Li	
Induction and Selection of <i>Stenotrophomonas maltophilia</i> DHHJ for Feather Degradation	1521
Xiaoqian Wu, Jing Wang, Yuan Zhuang, Zhangjun Cao, and Meihua Zhou	
Influence Arbuscular Mycorrhizal Fungi Have over Soluble Sugar Contents and Endogenous Hormone Levels of <i>Amorpha fruticosa</i>	1525
Fu-Qiang Song, Xiang-Shi Kong, Ying Liu, and Dan-Dan Qi	
Inhibition of Chitosan and Oligochitosan on Hyphal Growth of Four Species of Brown Rot Fungi	1530
Ya-sheng Turdi and Xiao-qiong Zhu	
Integrated Ecological-Hydrodynamic Model for the Jiangdong Reservoir in Jiulong River	1534
Zhi-yi Li, Peng-fei Du, and Jin-liang Huang	
Interactions between Polluted River and Groundwater—A Case Study of the Weihe River, China	1538
Weidong Yu and Chunhui Li	
Isolation, Culture and Cryopreservation of Sika Deer Antler Dermis Layer Cells	1542
Shoutang Wang, Lu Zhang, Xuechao Tian, Dangdang Li, Zhikun Bai, Bin Guo, and Zhanpeng Yue	
Manganese Stress on Chemical Composition of <i>Chenopodium ambrosioides L.</i> by FTIR Spectroscopy	1545
Jie Lei, Sheng-guo Xue, Chuan Wu, Jun Wang, and Bo Hu	
Mass Transfer Coefficient Calculation of Hollow Fiber Module in Vacuum Membrane Distillation	1549
Qing-Feng Yang and Yu Du	

Method Development and Application for Analysis of Heavy Metals in Soils by Microwave-assisted Digestion and Extraction	1553
<i>Jiali Zhou, Qiang Li, Di Song, Xuejun Pan, and Xiangdong Zeng</i>	
Microstructure and Mechanical Properties of Polycaprolactone/Calcium Sulfate Particle and Whisker Composites	1558
<i>J.Y. Liu, G.Y. Li, L. Ren, and Y.J. Wang</i>	
Molecular Cloning and Sequence Analysis of an <i>Or83b</i> cDNA from Antenna of <i>Heliothis viresplaca</i> (Lepidoptera: Noctuoidea)	1562
<i>Yu Wang, Lanlan Han, Shu Wang, Shuai Yang, Ling Wang, Chunjie Pang, Kuijun Zhao, and Xinxin Jiang</i>	
NIR Determination of Three Critical Quality Attributes in Alcohol Precipitation Process of <i>Lonicerae Japonicae</i> with Uncertainty Analysis	1566
<i>Bing Xu, Zhaozhou Lin, Xinyuan Shi, Yanjiang Qiao, Min Du, and Zhisheng Wu</i>	
Numerical Study of Pollutant Dilution in a Natural Ventilated Dental Clinic: Ventilation Path Types Used for Exhausting Pollutant	1572
<i>C.M. Mak, W. Zhang, and H.M. Wong</i>	
Occurrence and Elimination of PPCPs in Sewage Treatment Plants, in the Pearl River Delta (PRD), South China	1576
<i>Ying Tang, Zhen-cheng Xu, Qing-wei Guo, Xiao-ming Li, Li Wang, Cheng-yang Hong, and Yong-xin Bing</i>	
PDE Inhibitor Rolipram Increases Cholesterol Efflux and ABCA1 Expression: Rolipram Increases ABCA1 Expression	1582
<i>Ping-Ping He, Xin-Ping OuYang, Kai Yin, Wu-Jun Chen, Qian Lu, Zhong-Cheng Mo, Guo-Jun Zhao, Yun-Cheng Lv, and Chao-Ke Tang</i>	
Photocatalytic Degradation of 4-Bromodiphenyl Ether Using TiO ₂ /MWCNTs Composites	1586
<i>Liang Tang, Ming-hong Wu, Gang Xu, Zheng Jiao, Ning Liu, Liang Wang, and Jian-qiu Lei</i>	
Photocatalytic Inactivation of Microorganisms by TiO ₂ /nickel Foam Materials	1590
<i>Chuxiong Yang, Guoqing Zhang, Yongping Qiu, and Huageng Pan</i>	
Planning Energy and Environmental Systems Associated with Air Pollutants Mitigation under Uncertainty	1594
<i>Ya Zhou, Yongping Li, Guohe Huang, Wenxiang Zhang, and Yang Zhou</i>	
Polycyclic Aromatic Hydrocarbons in Surface Soils of a University Campus: Concentrations, Distribution, Sources and Potential Risk	1598
<i>Chan Lin, Jingliang Liu, Renmin Wang, Yu Wang, Bin Huang, and Xuejun Pan</i>	
Preliminary Study on Pattern to Process in Land Change in a Coastal Watershed of Southeast China	1602
<i>Zeng-rong Zhou, Yuan Feng, Jin-liang Huang, Ya-ling Huang, and Jun-ming Hong</i>	
Preparation of Immobilized EGFR Micro-reactor Based on CE	1606
<i>Gang-yi Shen, Wanting Yu, Lingpeng Pei, and Xun Cui</i>	

Preparation of TiO ₂ /ACF in Caprolactam Tetrabutyl Ammonium Bromide Ionic Liquid	1610
<i>Han Jing</i>	
Preparation, Characterization, <i>in vivo</i> Pharmacokinetics and Tumor Inhibition Properties of PEGylated Liposomes Containing Etoposide	1614
<i>Shi Jun, Cheng Yi, Ma Fangli, Chen Weihong, and Wang Xiaoyan</i>	
Protein-Templated Assembly of CdS Nanowires on a Silicon Oxide Substrate	1621
<i>Shancheng Yan, Juncai Shi, Yi Shi, Fei Yang, Dong Hu, Zhongdang Xiao, and Minmin Zhou</i>	
Purification of Antitumor Polysaccharides from Mushroom Fermentation Broth by Macroporous Resins	1624
<i>Bing-Zhao Zhang, Pei-sheng Yan, and Guo-Zhen Zhu</i>	
Quick Cultivation of Micro-aerobic Granular Sludge with Simultaneous Nitrogen Removal and the Influence of Oxygenation	1627
<i>Liu Xiao, Wang Hao, and Yang Yong</i>	
Radiographic Signs in Metaphysis of Phalanx for Children with Osteoarthropathia of Tibet	1631
<i>Min Zhang, Wen-hua Li, and Zhong Liu</i>	
Radiolysis Behaviors and Mechanism of Nonylphenol by Electron Beam Irradiation	1634
<i>Gang Xu, Liang Wang, Pei-jun Xu, Ning Liu, Hai-yang Shao, Qian-hui Shi, Jing-cheng Pei, Yang-yang Bao, and Ming-hong Wu</i>	
Relationships between the Diversity of <i>Acacia</i> Rhizobia and the Tree Growth Characteristics and the Environmental Conditions	1638
<i>Chengqun Lv and Baoling Huang</i>	
Research of the Healthy Drinkable Water—Bama Recreate Water	1642
<i>Long-long Guan, Qing-shan Li, and Bi-e Jin</i>	
Research on the Treatment of Copper Wastewater with Light-burned Magnesium Combined with Chitosan	1646
<i>Liping Zhang, Jianli Yuan, Yuntian Shi, Yuanyuan Shi, and Xiaotong Zhang</i>	
Researchs on Biological Aerated Filter Backwash Process	1650
<i>Ju-wei Peng, Hao Zhang, and Xiao-juan Lin</i>	
Response on Land Desertification to Dust Storm in Recent 45a in Alxa Plateau	1653
<i>Li Chun Xiao, Dong Zhi Bao, and Zhang Si Lian</i>	
Responses of Chlorophyll Content and Fluorescence to Water Stress in <i>Vitex Negundo</i> var. <i>Heterophylla</i> : Take Hilly area of Taihang Mountain in Henan for Example	1656
<i>Yong Zhao, Na Hou, Qian Wang, Jian-Tao Yang, Xi-Tian Yang, and Wei Fan</i>	
Retrospective Analysis of Numerical Simulation of Thermal Discharge from Baosteel Power Plant Based on Mike21FM	1660
<i>Ying Wang and Yonggen Sun</i>	

Safety Assessment for Reaction Vessel Containing Cracks Based on the Principle of Fit-for-Service	1664
<i>Zhong Yue and Xiao-Jing Han</i>	
Selective Adsorption of Flavonoids on Chitosan Resin Grafted by Quercetin	1668
<i>Jie Zhang, Xiaohua Zhou, Huanhuan Xu, Luyan Sang, and Dan Wang</i>	
Soil Copper Distribution in Tongling Mine Tailing Dam, China	1672
<i>Zebo Li, Qihua Shan, Jianfeng Zhang, Guangcai Chen, Ying Wang, and Xianhu Liu</i>	
Spatial Distribution of Organic and Inorganic Carbon in Sediments of Tai Lake, China	1676
<i>Nai-zheng Xu, Feng Wei, Hong-ying Liu, and Hui Yang</i>	
Spatial-temporal Distribution Characteristics of Soil Organic Matter and Total Nitrogen in the Jiuduansha Wetlands of the Yangtze Estuary	1680
<i>Chi-quan He, Gang Ni, Guang-yuan Zhi, Xia Liang, Wei Du, and Yan-ru Lei</i>	
Speciation of Cr(III) and Cr(VI) in the Presence of Chromium Azo Dye Acid Yellow 99 by Column Solid Phase Extraction	1684
<i>Qinhong Cai, Tsz-Wai Ng, Kin-Hang Wong, Po-Keung Wong, Ya Xiong, Yonghua Wang, and Ying Zhang</i>	
Specific Immunity Elicited by Cross-link Complex Alpha-fetoprotein and Glycoprotein 96	1688
<i>Xiaoping Wang, Huanping Lin, Qiaoxia Wang, Yan Gu, and Yi Xu</i>	
Speed Up the Application of CFC-free MDIs to Protect Ozone Layer of the Earth: Inhalation Therapy, CFC-free MDIs and Chinese Action of Phase-out CFC-MDIs	1692
<i>Rui Li, Rui-Wen Zhang, Xiao-shi Chang, Yin Huang, Quan Yuan, and Da-Xu Fu</i>	
SRAP Polymorphism of Space-Flight Mutation Sugarbeet SP3 Generation Breeding Material	1696
<i>Hui Zhang, Mao-qian Wang, and Hua-Zhong Wang</i>	
Stem Tissue Culture of <i>Pinus elliottii</i> × <i>Pinus caribaea</i>	1700
<i>Chengqun Lv and Baoling Huang</i>	
Studies on Liposome-encapsulated-chemical Actinometer in UV-disinfection by Low Pressure UV Lamp: Bio-chemical Actinometer in UV-Disinfection	1704
<i>Jinglan Hong and Masahiro Otaki</i>	
Studies on Simultaneous Catalytic Removal of NO ₂ and SO ₂	1708
<i>Cheng-Xue Wang, Lei Lv, and Xiang-Bo Wang</i>	
Study of Countermeasures for Ecological Restoration against the Disaster of Debris Flows in Scenic Spots: Taking Xinjiang Tianshan Mountain Tianchi Lake Scenic Spot as an Example	1712
<i>Zhang Yan, Zhou Yan, Yan Liang, and Zhao Xu</i>	
Study of Simulation on Attenuation of Diesel Oil during Remediation of Contaminated Soil by Enhancing Bioventing	1718
<i>Jin-Feng Yang, Tong-Ke Zhao, Cheng-Jun Zhang, and Hong-Han Chen</i>	

Study on Assessing Marine Organisms Damages Caused by Spilled Oil	1722
<i>Yang Jianli, Wu Wanqing, Jiang Xiaona, and Feng Xing</i>	
Study on Harnessing Strategy of Brackish Water in the Malian River	1726
<i>Lijun Yu, Hao Wang, Dayong Qin, Yong Zhao, Xuefeng Sang, and He Xu</i>	
Study on Method of Measuring Particle Size of Atmosphere Based on Digital Holography	1730
<i>Qin Jia, Zhiqian Li, and Xuefei Liu</i>	
Study on Salinity Related Oxygen Consumption and Ammonia Excretion of <i>Meretrix meretrix</i>	1734
<i>Yuan-yuan Dai, Yu-bo Dong, Xue Li, and Jing-feng Fan</i>	
Study on Sustainable Use of Water Resources of a New District in North China	1738
<i>Bin Gao and Xin-Hua Zhao</i>	
Study on the Antimicrobial Activity of Essential Oils from <i>Cinnamomum camphora</i> Wood	1742
<i>Wen-li Peng, Shanglian Zhong, Yuanzhao Yan, and Minglei Jiang</i>	
Study on the Content and Influencing Factors of Groundwater Nitrate Nitrogen in Hebei Province	1745
<i>Nuan Geng, Guo-Yin Zhang, Shu-Hua Ru, Shi-You Sun, Ling Wang, and Gui-Jin Chen</i>	
Study on the Effect of ER-alpha 36 siRNA on the Growth of ER Negative Breast Cancer Cells	1750
<i>Min Zhang, Shuang Gao, Dong-Yang Li, and Su Luo</i>	
Study on the Properties of the Antibacterial Alginate Impression Material	1753
<i>Wenjuan Liu, Bin Liu, Yuanyuan Qi, and Yi Wang</i>	
Study on the Theory of Person Safety Evacuation in Coal Mine during the Gas Disaster	1756
<i>Yao Jian and Tian Dongmei</i>	
Temporal and Spatial Variation of ETO in Eastern Agricultural Areas of Qinghai, China	1761
<i>Lu Zhao, Chuan Liang, and Ning-Bo Cui</i>	
The Application of Fuzzy Comprehensive Evaluation for Eutrophication Assessment of Plain Reservoirs: Take GengJing Reservoir as an Example	1765
<i>Ye Song, Li Hongwei, and Lu Mou</i>	
The Biodegradation Experiment of 1-chloronaphthalene and 2-chloronaphthalene	1770
<i>Jian Yu, Wenting He, Zhihui Lei, and Youqun Song</i>	
The Changes of Submaxillary Glands Trefoil Factor2 Gene and Trefoil Factor3 Gene during Experimental Gastric Ulcer in Rat	1778
<i>Jingfang Wu and Jing Zhang</i>	

The Chemical Characteristics and Evaluation of Water Environment in Xiangshan Harbor of the East China Sea	1783
<i>Li-hong Chen, Gen-hai Zhu, Qing-song Shi, Mao Jin, and Jian Zhang</i>	
The Comparison between Chemical Spectrophotometry and Instrument Method to Determine the Formaldehyde Concentration of the Indoor Air	1787
<i>Shu-Guang Jin, Hong-Yan Wang, Huan Li, and Hui-Ying Liu</i>	
The Contamination Characteristic of Cadmium in Soil and Green Plant in the Downtown Area of Zhaoyuan City	1791
<i>Zhang Lei</i>	
The Correlation between 1-deoxynojirimycin Content and alpha-glucosidase Inhibitory Activity in the Bark Ethanol Extract from <i>Ramulus mori</i>	1795
<i>Meng Fang, Anqing Huang, and Yuqing Zhang</i>	
The Development Model of the Tertiary Groundwater in the Southern Xiaoliaohe Based on Fuzzy Identification Model	1799
<i>Jun Pan, Ran-ran Kang, Chun-yang Han, and Shi-xiao Li</i>	
The Effect of Fibrillation Earthworm on Sludge Treatment in the Activated Sludge System	1803
<i>Chundi Gao, Li Wang, and Tianqi Yang</i>	
The Effects of Perfluorooctane Sulfonate (PFOS) on Germination and Physiological Status of Rice Seedlings	1807
<i>Xiao-Lu Xu, De-Yong Zhang, Hui-Ying Xu, and Xiu-Ying Shen</i>	
The Environmental Pollutant Bisphenol A Interferes with Nucleolar Structure	1811
<i>Edna Ribeiro-Varandas, H. Sofia Pereira, Sara Monteiro, Ricardo Boavida Ferreira, Elsa Neves, Luisa Brito, Wanda Viegas, and Margarida Delgado</i>	
The Eutrophication Process in a Plateau Deepwater Lake: Response to the Changes of Anthropogenic Disturbances in the Watershed	1815
<i>Chang-Liang Yang, Shi-Yu Li, Lin-Na Yuan, Liang-Xiu Yang, Hong-Zhou Zhang, and Wei-Hong Liu</i>	
The Expression of β-catenin, CyclinD1 and C-myc mRNA on Thymus Tissue Exposed Irradiation	1822
<i>Hong-Yan Wang, Yu-Bing Chen, Shou-Liang Gong, and Li Qu</i>	
The Intercropping Influence on Heavy Metal Uptake for Hyperaccumulators	1826
<i>Hanzhou Hao, Rugang Zhong, Yuran Miao, Yongxin Wang, and Liu Chengwu</i>	
The Measurement and Calculation of Heat of Mixing for Aqueous Alkanolamine Solutions	1829
<i>Ruilei Zhang, Jianguo Mi, Han Li, Jian Chen, and Guanghua Gao</i>	
The Network Security Regime for the Hybrid Connection of Healthcare Entities	1832
<i>Chon Hou Ip, Sio Hang Pun, Mang I. Vai, and Peng Un Mak</i>	

The Policy Implication for Emission Reduction of Dynamics between Energy Consumption and Economic Growth in China	1835
Juan Yang	
The Problems and Control Countermeasures Research of Rural Drinking Water Resource in Jilin	1841
<i>Bing Li, Dejun Bian, Hong Qu, Zhongxiao Yang, Ruizhong Zhao, and Chunliang Hu</i>	
The Risk Assessment of Groundwater Pollution in the Dawu Water Source	1845
<i>Yong-li Guo, Yuan-zheng Zhai, Jin-sheng Wang, Yan-guo Teng, and Huan Huan</i>	
The Uranium Availability and Uptake in the Vegetables	1850
<i>Zhang Jing, Chen Diyun, and Liu Juan</i>	
The Variance of Nitrate Nitrogen in Groundwater of Intensive Agricultural Region in Daxing District from 2005 to 2011	1854
<i>Peng Li, Cheng-Jun Zhang, Tong-Ke Zhao, Bao-Cun Liu, Xin-Rong Li, Jin-Feng Yang, and Wen-Juan Li</i>	
TiO ₂ Doped with Metal Ions as the UV Photocatalysts for Ciba-Red Wastewater Treatment	1858
<i>Chengjun Sun and Xianxiang Sun</i>	
Transformation between Surface Water and Groundwater under the Influence Development of Agriculture in Arid Region of Northwest China	1862
<i>Jian-min Ren, Xin-Min Ran, Yang Yang, and Zhao-Quan Yu</i>	
Transport and Mixing Characteristics of Pollutants by Continuous Point Source Discharge in the Multi-anabanch River with Three Braid Bars	1866
<i>Wei Ji, Zulin Hua, Wei Wu, and Jun Peng</i>	
Treatment of Mixed Wastewater of Slaughterhouse Wastewater and Biogas Slurry with Pilot Contact Oxidation System	1870
<i>Peng Li, Qun-Hui Wang, Jie Zhang, Tian-Long Zheng, and Juan Wang</i>	
Trichloroacetic Acid Can Activate the Activity of Acidic Protease	1874
<i>Gan Zhao and Jian-liang Feng</i>	
Ultrasonic Pretreatment for Performance in Aerobic/Anoxic Sludge Digestion	1877
<i>Li Zheng, Shui-yu Sun, Yan-bin Xu, Xing-xing Zhan, Bao-jian Liu, and Ming-Shan Cai</i>	
Using ESR to Analyze Some Oxidants Enhancing TiO ₂ to Produce Hydroxyl Radicals under Visual Lights	1881
<i>Yeoung-Sheng Wang, Jyun-Hong Shen, and Jao-Jia Horng</i>	
Variation of Soil Organic Carbon Stock under Land Use and Land Cover Changes in Farming-Pastoral Ecotone over the Past Century in Zhenlai, China	1885
<i>Jie Tang, Nan Zhang, Zhaoyang Li, and Bo Yang</i>	
Vehicle Cycle Environmental Impacts Assessment of a China Passenger Car	1889
<i>Shuhua Li, Nannan Li, Ying Gao, and Jun Li</i>	

Vertical Distribution of Available Heavy Metal in Vegetable Soil	1893
<i>Ling Wang, Guo-Yin Zhang, Shi-You Sun, Shu-Hua Ru, Nuan Geng, and Gui-Jin Chen</i>	

Author Index