Table of Contents

Preface and Conference Organization

Chapter 1: Mineral Prospecting and Geological Exploration

Variation of Wind Resistance Reliability of Foundation in Coral Sands Z.Q. Cheng, P. Yang and H.B. Jiang	3
The Study on Hydrous Pyrolysis Experiments of Coal-Measure Source Rocks in Ordos	
Basin P. Xue, Y.B. Wang and J. Yuan	8
A Method of Spatial Analysis of Fault Structure Based on 3D GIS X.Z. Wang and J.P. Yan	13
A Research on Coal Reservoir Geological Modeling and its Application in Exploration and Development of the Coalbed Methane (CBM) H.W. Zhang	17
A Study of Mineral Characteristics and Metallogenic Stages of Luziyuan Pb-Zn-Fe Polymetallic Ore Deposit, Zhenkang W. Liu, M.G. Deng and L. Zeng	21
A Study of Ore-Controlling Factors and Metallogenic Mechanism of Lead-Zinc Deposit in Luziyuan, Zhenkang, Yunnan C.L. Lv, M.G. Deng and L. Zeng	26
Analysis for the Global Distribution and Requirement of the Copper Resources Q.Y. Liu, A.J. Wang, Q.S. Chen and Y. Li	32
Application of 3D Apparent Physical Properties Inversion Method in an Iron Mine Area H.X. Li, H.L. Yu and P.C. Zhang	37
Applications of Conventional Logs in Low Resistivity Contrast Tight Gas Reservoirs Identification	
X.P. Liu, X.X. Hu, X.L. Zhang, R. Xu and L.L. Zhi	41
Characteristics of Coal and Gas Outburst within Gas Geological Units in Qidong Mine A.H. Chen, D.J. Lei and Y.G. Zhang	45
Characteristics of Lead and Zinc Polymetallic Deposit and Wall Rock Alteration Zoning in Luziyuan, Yunnan	
L. Zeng, M.G. Deng, C.L. Lv and W. Liu	52
Estimation of <i>In Situ</i> Stresses by Using Hydraulic Fracturing and Welllogging Data in Shizhuangnan Coalbed Methane Field Z.Q. Liu, L.R. Xing and R.M. Liu	56
Formation Age of the Qinling Complex and the early Paleozoic Tectonic Event	
Y. Shi, X.J. Liu and Z.H. Feng	60
Framework of Sequence Stratigraphy Sedimentary System and Evolution of Yimin Formation in Yimin Depression	
B.A. Guo, L.Y. Shao, S. Zhang, K.Y. Qing and M.M. Wang	71
Geochemistry of Huyanshan Alkaline Complex, Shanxi Province, China: Evidences for the Sources of Magma J. Kang, M. Li and S.L. Shi	81
Geochemistry of late Permian Coals from the Yantang Mine in Xuanwei, Yunnan, China J. Wang, L.Y. Shao, M. Li and C.X. Gao	85
Geochemistry of Sulfur in Extract from Hedong Coal Mine, China Q.J. Zhao, Y.G. Tang, X.J. Deng and X.L. Yu	89
Geoelectrochemical-Extraction Measurement Method to Look for Hidden Lead-Zinc Ore Deposit and Prospecting Effect Y.H. Hu, X.J. Liu and X.R. Luo	95
Geological Characteristics of Viscous Reservoirs & Mining Safety Technical in Northern Tibet Plateau	
W. Zhu and Z.J. Cao	100

Geological Factors Analysis of Gas Unusual Area in Southwest of Shandong Province Y.R. Meng, N. Jiang, W.F. Ning, C.Q. Zhong, K.P. Gao and Y.F. Men	106
High Resolution Sequence Stratigraphy of Silurian Strata in Tazhong Area L. Zhang, L.W. Zhu and X.J. Zhang	111
Influence Factors Analysis for the Next 20 Years of Chinese Copper Resources Demand Y. Li, A.J. Wang, Q.S. Chen and Q.Y. Liu	117
Influencing Factors of Chinese Aluminium Resources Demand in the Next 20 Years Y. Li, A.J. Wang, Q.S. Chen and Q.Y. Liu	122
Late Cenozoic Faults and Shallow Oil Accumulation in the Nanpu Sag T.W. Zhou, Z.H. Cui, H.H. Ming, H.L. Xu and Y.X. Xin	129
Ore-Forming Fluid System of the Anqing Cu-Fe Deposit, Anhui Province, China G.S. Yang, Y.F. Yan and P.Y. Feng	135
Paleo-Heat Flow Anomaly at the End of Middle Permian in NE Sichuan Basin, SW China: Did an Ocean Trough Exist? C.Q. Zhu, S. Rao and S.B. Hu	139
Research on the Natural Gas Enrichment Regularity of Es1 Layer in Yangxin Subsag of Jiyang Depression B. Zhang, W.T. Li and Z.H. Gan	147
Researching on Geological Characteristics and Economic Significance of Jinla Pb-Zn-Ag	14/
Deposit in Cangyuan County, Yunnan R.X. Wu, W.C. Li, W. Liu and L. Zeng	152
Sedimentology and Coalbed Methane Geology of Middle Jurassic Coal Measures in Juhugeng Mine, Qinghai Province	
M. Li, Z.F. Zhang, S. Zhang, M.M. Wang, X.D. Gao and L.Y. Shao Sedimentology and Reservoir Characteristics of He8 Member, in a Gas Field of Ordos	156
Basin, Northern China E.P. Fan, Y.H. Cheng, Y.Z. Zhang and Z.H. Bai	161
Sequence Boundaries Identification of Putaohua Oil Layer in Qijia-Gulong Area H.Q. Yuan, Y.H. Yu and D.L. Sun	166
Structure Evolution of Qinjiatun-Qindong Fault System in Lishu Subbasin S.D. Qu, C.Y. Liu, L.J. Song, H. Deng, L. Zhang and G.Z. Mao	170
Study on Multifunctional Electromagnetic Prospecting Technology in Mineral Exploration J.H. Li, P.R. Lin, B.L. Xu, Q.K. Meng and D. Li	178
Study on Primary Controlling Factors to Carbonate Reservoir Physical Properties of Zhanazhol Oilfield L. He, J.X. Li, R.L. Liu, D.H. Zhao and M. Luo	183
Study on Reservoir Characteristics of Shuguang Lower Hill	
Q.G. Zhang and Y.H. Li The Analysis of Sedimentary System and Provenance of Saertu Reservoir in Jiangqiao-	189
Pingyang Area in Northern of Songliao Basin L. Zhang, B. Dai, X.J. Zhang and X.D. Yi	194
The Analysis on the Evolution of Depositional Sequence in the Mid-Depth Formation under the Control of the Medium-Long Base-Level Change in Huanghekou Depression C.C. Zhao, H. Liu and Y.T. Ju	199
The Automatic Identification of Aperture in Carbonate Rocks H.J. Wen, Q. Wang and D.Y. Geng	207
The Present Conditions of Micro-Fine Disseminated Refractory Oolitic Hematite and	_,,
Expectation S.X. Liu, X.L. Lu, F.S. Niu and J. Xie	211
The Saidu Gold Deposit of Southern Altai, China: Mineralizing Stages and Ore-Forming Fluids Evolution	
G.R. Zhang, J.H. Xu, L.H. Shan, H. Zhang and X.F. Wei	215
Tracing of the Deep Fluids in Western Tianshan by the Electron Microprobe Analyses of Omphacite Form High-Pressure Veins and Host-Rocks D.Z. Huang, Y.H. Liu, Z. Liu, L. Wang and H.L. Gu	219
Well Logging Identification Methods for Volcanic Lithofacies in the North of Songliao	
Basin, China H.J. Li, W.L. Yan, G.W. Wang, J.W. Fu, C.Y. Wang, H.P. Niu, H. Qin and D. Cang	224

Paleogeolography of early Coal-Forming of late Permian in Chongqing C.X. Gao, L.Y. Shao, C.H. Gao and C.L. Li	235
Experimental Study on Microscopic Structure and Permeability of Tectonic Soft Coal K. Gao and W.Y. Xue	241
The Seismic Facies in the Pliocene from the Shenhu Gas Hydrate Survey in the Northern Continental Slope of South China Sea W. Li, X.H. Yu, X. Shan, X.M. Zeng and J.Z. Wang	246
Influence of Shale Gas Development on Land Q. Li, Y.L. Zhang, A.G. Wang, C.C. Hu and X.J. Geng	251
3D Geological Modeling for Zhouan Cu-Ni-Pt Sulfide Deposit, Henan, China J.X. Miao, H. Wang, K.J. Song, J. Qu, M.Y. Zhang, X. Chen and Y. Ba	257
A Tentative Study of Relationship between Mantle Plumes, Supercontinents and Orogenic Gold Deposits J.H. Cui and T. Ren	265
Achieving the Logging Item's Sensitive Analysis of Complex Lithology by Using the Cross Plot Technique	
M.L. Zhang, B.W. Zhou, J.H. Lin and F.L. Yu Aggregation Condition and Prediction of Favorable Area for Xujiahe Formation Shale Gas in Guangyuan Tenement Blank Area	269
G. Shi, J.C. Zhang, B. Li, X. Tang, W.Z. Jin, X.R. Du, C. Liu and Y.F. Zhao	276
Analysis of Potash Resource Situations in China and Development of Yiliping Saline Lake in Qinghai Province Z.S. Li	282
Analysis on Grain-Size Characteristics and Sedimentary Environment of Conglomerate Reservoirs in Ying-4 Section of Xingcheng Gas Field of Songliao Basin Y. Sun, X.L. Zhang, J.Y. Zhang and C. Chen	286
Analysis on the Surface Subsidence Regular about Paste Filling Mining under the Buildings X.D. Qi and X.Z. Cheng	290
Application of Inversion after Limestone Hollow-Out in Pearl River Mouth Basin Y.J. Yang, J.M. Zheng and Z.Q. Ding	294
Assessment of Rare Earth Supply and Demand Relationships: A Literature Review C.Y. He and Y.L. Lei	300
Carbonate Depositional Facies Analysis and Reservoir Prediction for Central Block in Pre- Caspian Basin Z. Wang, Y.K. Wang, M. Luo, K.H. Ling and Y.P. Lin	305
Characteristic Analysis of Texture and Structure of Ores and Genesis of Luziyuan Pb-Zn Polimetallic Deposit in Zhenkang, Yunnan, China B.X. Lin, M.G. Deng and X.W. Liang	311
Coal Resources and Tectonic Division of Ordos Basin	
S.Z. Ning Environmental and Economic Significance and Feasibility Analysis of Tight Sand Gas	316
Reservoir in China J.G. Wang, L. Chen, H.J. Zhang and T. Han	320
Establishment of Isochronous Stratigraphic Framework of Fuyu Oil Layer in Toutai Oil Field and its Significance Y.C. Wang, Z.Q. Zhang, X.L. Zhang and G.B. Xu	326
Evaluation of the Gas Content of Coal Reservoirs with Geophysical Logging in Weibei Coalbed Methane Field, Southeastern Ordos Basin, China T.T. Yan, Z.Q. Liu, L.R. Xing, Y. Luo, Y.D. Bai and S.P. Huang	331
Fluid Inclusion and Mineralization Epochs Studies of Luziyuan Pb-Zn Deposit in Yunnan Province, Southwestern China	
F.B. Cang, M.G. Deng and W. Liu Geochemical Characteristics and Analysis of Tectonic Setting of Hannuoba Basalts from	335
Chifeng Region, Inner Mongolia Y.D. Peng and Z.B. Zhang	340
Geochemical Characteristics and Tectonic Implications of the early Permian Volcanic Rocks from Ongniud Banner, Inner Mongolia D. Liu, D.Y. Cao, Y.W. Wang and Z.Y. Liu	344

L.H. Sun Geological Statistics Study on Grade Variations in Ore Body 1 of the Macheng Iron Deposit, East Hebei, China M.G. Wang, J.H. Xu, W.G. Sun and Z.F. Li High-Resolution Sequence Stratigraphic Division and Monosandbody Isochronic Correlation of Meandering River Delta of Fuyu Oil Layer in the Northern Honggang Y. Sun, X.L. Ahang, J.Y. Zhang and C. Chen Hydrocarbon Geology Characteristics and Oil & Gas Resource Potential in the Afghan- Tajik Basin W. Yin Influence of Deposition Characteristics in the Heavy Oilfield Development Stage X.M. Fang, S. Guan and Y.P. Ma Major Controls on the Evolution of the Cambrian Dolomite Reservoirs in the Keping Area, Tarim Basin Q. Li, X.L. You, W.X. Hu, J.Q. Zhu and Z.X. Jiang Metallogenic Model and Prospecting Orientation of Aketasi Gold Deposit in Xinjiang X.F. Wei, J.H. Xu, D. Pan and K.P. Ding Microbialites from the Upper Cambrian in the Tarim Basin, Northwest China: Implication for Depositional Environments X.L. You, J.Q. Zhu, Q. Li, L. Liu, K. He and S.Q. Wu Problem Teled Chang4+5 Reservoir M. Wang, R. Hu, Y. Zou and Y.J. Ma Potential Hydrocarbon Resources in Aral Sea Area in the North Ustyurt Basin T.W. Zhou, J.Z. Zheng, L.H. Kong, C.S. Wang, Y.P. Lin, S.H. Wang and T.Z. Wu Predict Channel Sand Body Distribution Characteristics of South Eighth District Based on RMS Amplitude Attributes & Frequency Division Y.S. Hu and S.M. Zhu Regional Geology Background and Minerogenetic Series in Ongniud Banner of Inner Mongolia D. Liu and D.Y. Cao Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.I. Liu, H.Q. Xue and X.B. Li Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area GY. Lv Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area GY. Lu Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area GY. Lu, L. X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.L. Jia, J. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo	Geochemistry of Shales from Cambrian Mantou Formation, Northern Anhui Province, China	
East Hebel, Chinn MG Wang, J.H. Xu, W.G. Sun and Z.F. Li High-Resolution Sequence Stratigraphic Division and Monosandbody Isochronic Correlation of Meandering River Delta of Fayu Oil Layer in the Northera Honggang Y. Sun, X.L. Zhang, J.Y. Zhang and C. Chen Hydrocarbon Geology Characteristics and Oil & Gas Resource Potential in the Afghan-Tajik Basin W. Yin 360 Influence of Deposition Characteristics in the Heavy Oilfield Development Stage X.M. Fang, S. Guan and Y.P. Ma Major Controls on the Evolution of the Cambrian Dolomite Reservoirs in the Keping Area, Tarrim Basin Q. Li, X.L. You, W.X. Hu, J.Q. Zhu and Z.X. Jiang Mctallogenic Model and Prospecting Orientation of Aketasi Gold Deposit in Xinjiang X.F. Wei, J.H. Xu, D. Pan and R.F. Ding Microbialites from the Upper Cambrian in the Tarim Basin, Northwest China: Implication for Depositional Environments X.L. You, J.Q. Zhu, Q. Li, L. Liu, K. He and S.Q. Wu 388 19 Decision Technologys Application to Profile Control and Water Shutoff in Jiyuan Oilfield Luo27 Welf Field Chang4+5 Reservoir M. Wang, R. Hu, Y. Zou and Y.J. Ma Potential Hydrocarbon Resources in Aral Sea Area in the North Ustyurt Basin T.W. Zhou, J.Z. Zheng, L.H. Kong, C.S. Wang, Y.P. Lin, S.H. Wang and T.Z. Wu Predict Channel Sand Body Distribution Characteristics of South Eighth District Based on RMS Amplitude Attributes & Frequency Division V.S. Hu and S.M. Zhu 404 Regeinal Geology Background and Minerogenetic Series in Ongniud Banner of Inner Mongolia D. Liu and D.Y. Cao 408 Research and Application on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen 409 Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv 418 Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv 420 Research on Character of Sandlayer in Heidimiao Oil Layer in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 430 431 432 433 434 435 436 436 437 438 439 430 430 431 430 431 431 432 433 434		352
Correlation of Meandering River Delta of Fuyu Oil Layer in the Northern Honggang Y. Sun, X.L. Zhang, J.Y. Zhang and C. Chen 362 Hydrocarbon Geology Characteristics and Oil & Gas Resource Potential in the Afghan-Tajik Basin W. Yin 368 Influence of Deposition Characteristics in the Heavy Oilfield Development Stage X.M. Fang, S. Guan and Y.P. Ma Major Controls on the Evolution of the Cambrian Dolomite Reservoirs in the Keping Area, Tarim Basin Q. Li, X.L. You, W.X. Hu, J.Q. Zhu and Z.X. Jiang Metallogenic Model and Prospecting Orientation of Aketasi Gold Deposit in Xinjiang X.F. Wei, J.H. Xu, D. Pan and R.F. Ding Microbialites from the Upper Cambrian in the Tarim Basin, Northwest China: Implication for Depositional Environments X.L. You, J.Q. Zhu, Q. Li, L. Liu, K. He and S.Q. Wu Pi Decision Technologys Application to Profile Control and Water Shutoff in Jiyuan Oilfield Luo27 Well Field Chang4+5 Reservoir M. Wang, R. Hu, Y. Zou and Y.J. Ma Potential Hydrocarbon Resources in Aral Sea Area in the North Ustyurt Basin T.W. Zhou, J.Z. Zheng, L.H. Kong, C.S. Wang, Y.P. Lin, S.H. Wang and T.Z. Wu Predict Channel Sand Body Distribution Characteristics of South Eighth District Based on RMS Amplitude Attributes & Frequency Division Y.S. Hu and S.M. Zhu Regional Geology Background and Minerogenetic Series in Ongniud Banner of Inner Mongolia D. Liu and D.Y. Cao Research and Application on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen 422 Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Li W. Guo, H.L. Liu, H.Q. Xue and X.B. Li Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Li D. L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Bel	East Hebei, China	356
Hydrocarbon Geology Characteristics and Oil & Gas Resource Potential in the Afghan-Tajik Basin W. Yin 366 Influence of Deposition Characteristics in the Heavy Oilfield Development Stage X.M. Fang, S. Guan and Y.P. Ma 373 Major Controls on the Evolution of the Cambrian Dolomite Reservoirs in the Keping Area, Tarim Basin Q. Li, X.L. You, W.X. Hu, J.Q. Zhu and Z.X. Jiang 377 Metallogenic Model and Prospecting Orientation of Aketasi Gold Deposit in Xinjiang X.F. Wei, J.H. Xu, D. Pan and R.F. Ding Microbialites from the Upper Cambrian in the Tarim Basin, Northwest China: Implication for Depositional Environments X.L. You, J.Q. Zhu, Q. Li, L. Liu, K. He and S.Q. Wu Pi Decision Technologys Application to Profile Control and Water Shutoff in Jiyuan Oilfield Luo27 Well Field Chang4+S Reservoir M. Wang, R. Hu, Y. Zou and Y.J. Ma Potential Hydrocarbon Resources in Aral Sea Area in the North Ustyurt Basin T.W. Zhou, J.Z. Zheng, L.H. Kong, C.S. Wang, Y.P. Lin, S.H. Wang and T.Z. Wu Predict Channel Sand Body Distribution Characteristics of South Eighth District Based on RMS Amplitude Attributes & Frequency Division Y.S. Hu and S.M. Zhu Regional Geology Background and Minerogenetic Series in Ongniud Banner of Inner Mongolia D. Liu and D.Y. Cao Research and Application on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen 48 Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.L. Liu, H.Q. Xue and X.B. Li Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv 422 Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao 432 Sedimentary Microfacies Analysis of Xingbei I-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 436 Sequence Strattigraphy of Jurassic Succession in Central Junggar Basin, China J.J. Guo, H. Xu and K. Liu 447 Tectonic Environment and Geochemical Characteristics of Geza Are Magmatic Ro	Correlation of Meandering River Delta of Fuyu Oil Layer in the Northern Honggang	362
Influence of Deposition Characteristics in the Heavy Oilfield Development Stage X.M. Fang, S. Guan and Y.P. Ma Major Controls on the Evolution of the Cambrian Dolomite Reservoirs in the Keping Area, Tarim Basin Q. Li, X.L. You, W.X. Hu, J.Q. Zhu and Z.X. Jiang Metallogenic Model and Prospecting Orientation of Aketasi Gold Deposit in Xinjiang X.F. Wei, J.H. Xu, D. Pan and R.F. Ding Microbialites from the Upper Cambrian in the Tarim Basin, Northwest China: Implication for Depositional Environments X.L. You, J.Q. Zhu, Q. Li, L. Liu, K. He and S.Q. Wu Pl Decision Technologys Application to Profile Control and Water Shutoff in Jiyuan Oilfield Luo27 Well Field Chang4+5 Reservoir M. Wang, R. Hu, Y. Zou and Y.J. Ma Potential Hydrocarbon Resources in Aral Sea Area in the North Ustyurt Basin T.W. Zhou, J.Z. Zheng, L.H. Kong, C.S. Wang, Y.P. Lin, S.H. Wang and T.Z. Wu Predict Channel Sand Body Distribution Characteristics of South Eighth District Based on RMS Amplitude Attributes & Frequency Division Y.S. Hu and S.M. Zhu Regional Geology Background and Minerogenetic Series in Ongniud Banner of Inner Mongolia D. Liu and D.Y. Cao Research and Applications on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.L. Liu, H.Q. Xue and X.B. Li Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv 422 Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 346 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. L	Hydrocarbon Geology Characteristics and Oil & Gas Resource Potential in the Afghan- Tajik Basin	366
Tarim Basin Q. Li, X.L. You, W.X. Hu, J.Q. Zhu and Z.X. Jiang Metallogenic Model and Prospecting Orientation of Aketasi Gold Deposit in Xinjiang X.F. Wei, J.H. Xu, D. Pan and R.F. Ding Microbialites from the Upper Cambrian in the Tarim Basin, Northwest China: Implication for Depositional Environments X.L. You, J.Q. Zhu, Q. Li, L. Liu, K. He and S.Q. Wu 388 Pi Decision Technologys Application to Profile Control and Water Shutoff in Jiyuan Oilfield Luo27 Well Field Chang4+5 Reservoir M. Wang, R. Hu, Y. Zou and Y.J. Ma 997 Potential Hydrocarbon Resources in Aral Sea Area in the North Ustyurt Basin T.W. Zhou, J.Z. Zheng, L.H. Kong, C.S. Wang, Y.P. Lin, S.H. Wang and T.Z. Wu 998 Predict Channel Sand Body Distribution Characteristics of South Eighth District Based on RMS Amplitude Attributes & Frequency Division Y.S. Hu and S.M. Zhu 908 Research and Application on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen 919 Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.L. Liu, H.Q. Xue and X.B. Li 92 Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv 93 Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao 93 Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield 93 R.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 94 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li 94 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li 94 Sequence Stratigraphy of Jurassic Succession in Central Jungar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li 94 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin		373
Metallogenic Model and Prospecting Orientation of Aketasi Gold Deposit in Xinjiang X.F. Wei, J.H. Xu, D. Pan and R.F. Ding Microbialites from the Upper Cambrian in the Tarim Basin, Northwest China: Implication for Depositional Environments X.L. You, J.Q. Zhu, Q. Li, L. Liu, K. He and S.Q. Wu 388 Pi Decision Technologys Application to Profile Control and Water Shutoff in Jiyuan Oilfield Luo27 Well Field Chang4+5 Reservoir M. Wang, R. Hu, Y. Zou and Y.J. Ma 997 Potential Hydrocarbon Resources in Aral Sea Area in the North Ustyurt Basin T.W. Zhou, J.Z. Zheng, L.H. Kong, C.S. Wang, Y.P. Lin, S.H. Wang and T.Z. Wu 997 Predict Channel Sand Body Distribution Characteristics of South Eighth District Based on RMS Amplitude Attributes & Frequency Division Y.S. Hu and S.M. Zhu 100 Regional Geology Background and Minerogenetic Series in Ongniud Banner of Inner Mongolia 101 101 102 103 103 104 104 105 106 107 108 108 109 109 109 109 109 109	Tarim Basin	
Microbialites from the Upper Cambrian in the Tarim Basin, Northwest China: Implication for Depositional Environments X.L. You, J.Q. Zhu, Q. Li, L. Liu, K. He and S.Q. Wu 388 Pi Decision Technologys Application to Profile Control and Water Shutoff in Jiyuan Oilfield Luo27 Well Field Chang4+5 Reservoir M. Wang, R. Hu, Y. Zou and Y.J. Ma 397 Potential Hydrocarbon Resources in Aral Sea Area in the North Ustyurt Basin T.W. Zhou, J.Z. Zheng, L.H. Kong, C.S. Wang, Y.P. Lin, S.H. Wang and T.Z. Wu 397 Predict Channel Sand Body Distribution Characteristics of South Eighth District Based on RMS Amplitude Attributes & Frequency Division Y.S. Hu and S.M. Zhu 408 Regional Geology Background and Minerogenetic Series in Ongniud Banner of Inner Mongolia D. Liu and D.Y. Cao 408 Research and Application on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.L. Liu, H.Q. Xue and X.B. Li 422 Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv 426 Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao 432 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin Tectonic Environment and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China		377
for Depositional Environments X.L. You, J.Q. Zhu, Q. Li, L. Liu, K. He and S.Q. Wu Pi Decision Technologys Application to Profile Control and Water Shutoff in Jiyuan Oilfield Luo27 Well Field Chang4+5 Reservoir M. Wang, R. Hu, Y. Zou and Y.J. Ma 933 Potential Hydrocarbon Resources in Aral Sea Area in the North Ustyurt Basin T.W. Zhou, J.Z. Zheng, L.H. Kong, C.S. Wang, Y.P. Lin, S.H. Wang and T.Z. Wu 97 Predict Channel Sand Body Distribution Characteristics of South Eighth District Based on RMS Amplitude Attributes & Frequency Division Y.S. Hu and S.M. Zhu 404 Regional Geology Background and Minerogenetic Series in Ongniud Banner of Inner Mongolia D. Liu and D.Y. Cao 408 Research and Application on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen 418 Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.L. Liu, H.Q. Xue and X.B. Li 422 Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. LV 426 Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao 432 Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 434 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Are Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin 444 Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu 448 The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	X.F. Wei, J.H. Xu, D. Pan and R.F. Ding	384
Pi Decision Technologys Application to Profile Control and Water Shutoff in Jiyuan Oilfield Luo27 Well Field Chang4+5 Reservoir M. Wang, R. Hu, Y. Zou and Y.J. Ma Potential Hydrocarbon Resources in Aral Sea Area in the North Ustyurt Basin T.W. Zhou, J.Z. Zheng, L.H. Kong, C.S. Wang, Y.P. Lin, S.H. Wang and T.Z. Wu Predict Channel Sand Body Distribution Characteristics of South Eighth District Based on RMS Amplitude Attributes & Frequency Division Y.S. Hu and S.M. Zhu Regional Geology Background and Minerogenetic Series in Ongniud Banner of Inner Mongolia D. Liu and D.Y. Cao Research and Application on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.L. Liu, H.Q. Xue and X.B. Li Research on Character of Sandlayer in Heidimiao Oil Layer in Vingtai Area G.Y. Lv Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	for Depositional Environments	388
Luc27 Well Field Chang4+5 Reservoir M. Wang, R. Hu, Y. Zou and Y.J. Ma Potential Hydrocarbon Resources in Aral Sea Area in the North Ustyurt Basin T.W. Zhou, J.Z. Zheng, L.H. Kong, C.S. Wang, Y.P. Lin, S.H. Wang and T.Z. Wu Predict Channel Sand Body Distribution Characteristics of South Eighth District Based on RMS Amplitude Attributes & Frequency Division Y.S. Hu and S.M. Zhu Regional Geology Background and Minerogenetic Series in Ongniud Banner of Inner Mongolia D. Liu and D.Y. Cao Research and Application on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.L. Liu, H.Q. Xue and X.B. Li Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongiang Province in China A.J. Guo, H. Xu and K. Liu The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China		500
T.W. Zhou, J.Z. Zheng, L.H. Kong, C.S. Wang, Y.P. Lin, S.H. Wang and T.Z. Wu Predict Channel Sand Body Distribution Characteristics of South Eighth District Based on RMS Amplitude Attributes & Frequency Division Y.S. Hu and S.M. Zhu 404 Regional Geology Background and Minerogenetic Series in Ongniud Banner of Inner Mongolia D. Liu and D.Y. Cao 408 Research and Application on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen 418 Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.L. Liu, H.Q. Xue and X.B. Li 422 Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv 426 Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao 432 Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 436 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin 440 Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	Luo27 Well Field Chang4+5 Reservoir	393
RMS Amplitude Attributes & Frequency Division Y.S. Hu and S.M. Zhu 404 Regional Geology Background and Minerogenetic Series in Ongniud Banner of Inner Mongolia D. Liu and D.Y. Cao 408 Research and Application on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen 418 Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.L. Liu, H.Q. Xue and X.B. Li 422 Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv 426 Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao 826dimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 436 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin 444 Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu 448 The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China		397
Mongolia D. Liu and D.Y. Cao Research and Application on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.L. Liu, H.Q. Xue and X.B. Li Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 436 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin 444 Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu 448 The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	RMS Amplitude Attributes & Frequency Division	404
D. Liu and D.Y. Cao Research and Application on Model of Dynamic Controlling Sand in Surennuoer Area Y.S. Hu, J. Zhang, S.F. Liu and X. Chen Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.L. Liu, H.Q. Xue and X.B. Li Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin 444 Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	Regional Geology Background and Minerogenetic Series in Ongniud Banner of Inner	
Y.S. Hu, J. Zhang, S.F. Liu and X. Chen Research and Applications on the Theory of Shale Gas Depth Enrichment Zone W. Guo, H.L. Liu, H.Q. Xue and X.B. Li Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu 448 The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	D. Liu and D.Y. Cao	408
W. Guo, H.L. Liu, H.Q. Xue and X.B. Li Research on Character of Sandlayer in Heidimiao Oil Layer in Yingtai Area G.Y. Lv 426 Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao 432 Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 436 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin 444 Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu 448 The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	Y.S. Hu, J. Zhang, S.F. Liu and X. Chen	418
G.Y. Lv Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 436 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin 444 Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu 448 The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	W. Guo, H.L. Liu, H.Q. Xue and X.B. Li	422
Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and its Surrounding Regions H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao 432 Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 436 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin 444 Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu 448 The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China		126
H. Lou, E.X. Shi, H.B. Wei, X.X. Wu and G.R. Zhao Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 436 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	Research on the Relationship between Geothermal Field and the Tectonic in Himalayas and	420
Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield B.Q. Yan, X.J. Ma, L.H. Yuan and G.P. Jing 436 Sequence Stratigraphy of Jurassic Succession in Central Junggar Basin, China J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin 444 Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu 448 The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China		432
J.Z. Li, J.L. Zhang, Y. Yuan, P.H. Zhang, C.L. Li, Z.Q. Luo, L. Qin, F. Ding, X. Li and Y. Li Tectonic Environment and Geochemical Characteristics of Geza Arc Magmatic Rocks in Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin 444 Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu 448 The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	Sedimentary Microfacies Analysis of Xingbei 1-3 Zone in Daqing Oilfield	
Sanjiang Orgenic Belt, SW China X.L. Liu, W.C. Li, Y. Yang and G.H. Yin Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu 448 The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China		440
Tectonic Evolution and Coal-Bearing Series Hosting Status Analysis on Coal Basins in Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu 448 The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	Sanjiang Orgenic Belt, SW China	444
Eastern Heilongjiang Province in China A.J. Guo, H. Xu and K. Liu The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China		444
The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition K. Zeng, M.L. Zhang, L. Feng and K.N. Yang 452 The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	Eastern Heilongjiang Province in China	448
The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China	The Application of Induction Logging Adaptive Deconvolution Processing in Water Flooded Recognition	
The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China Y.C. Wang, X. Li, R. Zhao, X. Qiu and Z.B. Liu 458		452
	The Characteristics of Fault Belts Distribution in Pubei Oilfield Daqing, China Y.C. Wang, X. Li, R. Zhao, X. Qiu and Z.B. Liu	458

The Distribution of Clay Minerals in the Middle 3rd Member of Shahejie Formation in Dongying Depression and its Main Controlling Factors	
L. Liu and N.H. Zhu	463
The Double (or Multiple) BSRs Observations and their Tentative Interpretations Y. Luo and X. Su	467
The Provenance Tectonic Background Analysis of the Upper Jurassic Mohe Basin in Northeast China	
Y.Q. Zhang, W. Hou and F. Zhang	476
The Research of Gas-Water Relations in Low-Permeability Tight Sand Gas Reservoir - Taking Zizhou Gas Field for Example J.B. Ma, Y.L. Ma, C. Sun and J.G. Wang	480
The Structural Analysis of Deep Gas Occurrence and Prevention of Gas Disaster in	
Fengfeng Coalfield M.H. Geng, X.J. Lv and X.G. Zhang	484
Three Dimensional Fine Structure Modeling of Haqian Wellblock, in Northern Dzungaria	707
Basin, China	400
C.Q. Dong, F. Ding and W.W. Ren	488
Zoning and Exploration Significance of the Maoping Pb-Zn Deposit, Northeastern Yunnan Province, China	
G.S. Yang, R.S. Han, P. Wu and P.Y. Feng	493
Characteristic Analysis of the Transition Zone in Carbon Dioxide Miscible Flooding C.L. Liao, X.W. Liao, J. Li and N. Lu	497
Analysis of Soil Disturbance by Shield Tunneling M.L. Xu and D.S. Zhao	502
Researches on Sequences Stratigraphy of Neogene in Huanghekou Sag, Bohai Bay Basin,	302
China Y.T. Ju, H. Liu, C.C. Zhao and T. Guo	507
1.1. Ju, 11. Eta, C.C. Zhuo und 1. Guo	307
Chapter 2: Rock and Mining Engineering, Coal Mining	
The Effect of Sodium Dodecyl Sulphate (SDS) on Wettability of Different Coals X.Y. Ren, Z.Y. Yang, S.C. Qu and J. Long	513
Artificial Ground Freezing for Rehabilitation of Tunneling Shield in Subsea Environment X.D. Hu and L.Y. Zhang	517
Study of Rock Mass Rupture Law and Seismic Focus Positioning Process Revealed by Microseismic Monitoring	
F.Q. Li and X.T. Zhao	522
Analysis of Influencing Factors on Effective Radius of Drilling Gas Drainage Z.Y. Xu, Y.J. Zhang and B.Q. Yuan	526
Study on Surface Movement and Deformation Characteristics and Pillar Stability of Large	
Strip Mining under Deep Mining J.T. Chen, K.K. Sheng, L.M. Yin and C.Q. Wu	531
Coal Seam Roadway Bolt Support Design Method Based on the Supporting Theory of	331
Broken Rock Zone H.Y. Liu, Z.G. Wang, J. Li and L. Bai	535
Connotation and Technology System of Green Mining of Manganese Resources L. Li, L.J. Xu and D.M. Chen	540
Coupling Model of Evolution of Mining Fissure Elliptic Paraboloid Zone and Methane	
Delivery H.F. Lin, R.F. Ma, S.G. Li, L.H. Cheng, H.Y. Pan and L. Li	546
Effect of the Water Injection Pressure on the Permeability of Coal Body H.F. Ma, C.M. Li and J.Z. Li	551
Experimental Study of Temperature Reduction with Airflow Control Measures in Mining	331
Faces	
Y. Luo and C. Liu Investigate about For Porformance Test of Air Sheft with Lift System	556
Investigate about Fan Performance Test of Air Shaft with Lift System D. Wu and X.B. Li	562

Large Section Open-Off Cut Supporting Technology of Fully Mechanized Caving Mining for Carboniferous Extra-Thick Coal Seam Q.G. Huang and F. Gao	566
Lication of Complex Summation in Eliminating the Impact of Minor Faults during the Research on Upper Mining Limit of Coal Seams G.L. Niu	570
Numerical Simulation for Shear Characteristics of Rock-Mass Structural Plane B.Y. Yuan, Q. Wang and H.F. Lu	574
Numerical Simulation on Effect of Obstructing Airflow by Different Outlet Parameters of Mine Air Curtain L. Zhao and Z.A. Jiang	579
Oxidation of Huolinguole Lignite with NaOCl G.Z. Gong, J.M. Chu, X.Y. Wei and Z.M. Zong	584
Predict Gas Drainage Quantity of Mining with Dynamic Unbiased Grey Markov Model Q.S. Li, S.Q. Li and Z.L. Han	588
Prediction of Mining Step in Strong Mine Earthquake Based on Grey System Theory K. Wang and K. Liu	594
Present Situation of Coal Recovery Rate in our Country and Countermeasure Research G.R. Yang, L. Fan, Z.G. Wang, G.H. Wang and J.L. Xing	601
Research of Bearing Mechanism of Double Support Structure of Deep Soft Rock Roadway F.J. Zhang, P. Liu, X.R. Meng and Z.N. Gao	606
Research on Sodium Removal from Zhundong Coal C. Chen, S.Y. Zhang, D.Z. Shi, J.F. Lv, D.H. Liu, X. Guo, A.X. Dong and S.W. Xiong	614
Research on the Equipment Addition of Antaibao Open-Pit Mine Z. Yang and R.X. Zhang	619
Research on the Simulation of the Roof Fracture about the Gob-Side Entry Retaining J.J. Shi, R.H. Wu, T. Yong and J.Z. Guo	624
Risk Management of Induced Micro-Seismicity Caused by Hydraulic Fracturing through Acoustic Emission Y. Feng and C.Y. Feng	628
Statistical Analysis on Characteristics of Gas Emission in a Fully Mechanized Caving Face under Drainage Conditions D.W. Li, P. Wang and J.Z. Zhang	634
Strata Behaviors of Fully-Mechanized Sublevel Caving Face Based on Similar Simulation Test H.W. Lv	638
Study on Fully-Mechanized Top Coal Caving Mining under Water Body with Shallow Overburden and Thin Bedrock	
L. Li, Z.G. Liu, P.P. Chen and G. Liu Study on Methods of Exploring the Loosening Radius of Deep-Hole Controlling Blasting	644
W.Q. Zhang and J. Liu Study on Optimization Method of the Slope Angle Design for Open-Pit Mine	650
S.J. Feng, S.G. Sun and Y.N. Yi Study on Pressure Relief Scope of Underlying Coal Rock with Upper Protective Layer	656
Mining B.Q. Yuan, Y.J. Zhang, J.J. Cao and G.J. Cheng	661
Study on Regulations of Coal Mining under Highway W.N. Deng and H.X. Zhang	666
The Deformation and Failure Characteristics Research of the Roof Rocks in Anchorage Areas S.B. Wu	671
The Detection Research of Roadway Roof Strata Structure in Coal Seam Q.X. Zhang, H.S. Jia, L. Fan, X.D. Zhao, Z.G. Wang and J.L. Xing	677
Numerical Analysis on Mechanical and Deformation Characteristics of Pile-Anchor Retaining Structure for Waterway Excavation Z.Y. He, J.F. Wang and L. Fu	682
Research and Application of Ventilation Simulation and Monitoring System in Chensilou Coal Mine C.M. Fang and H. Ma	686

Study on Influencing Factor of Ground Deformation Induced by Shield Tunneling M.L. Xu and D.S. Zhao	690
Study on Characteristics of Energy for Hard Roof Fracture in Island Workface X.F. Pang and K.X. Zhang	694
Coupling Flow-Reaction-Transmission during Square Column Leaching Processes J.Z. Liu, Y.H. Li and B.H. Yang	698
Evaluation of Stress-Controlled Permeability of Coal Fractures - A Laboratory Study Y.D. Cai, D.M. Liu, Y.B. Yao, B.R. Zhang, J.Q. Li and Y.K. Qiu	703
A Study of Mining Administrative Agencies in the United States H.L. Zhang, J.H. Sha and B. He	709
Analysis of the Dynamic Pressure Characteristics for Rock Fracturation under High Intensity Mining	
Q.F. Li and C.Q. Zhu Application of Wasteless Mining in Hongtoushan Copper Mine	714
S.D. Xu, Y.H. Li and J.P. Liu	722
Application of Fuzzy Mathematics in the Networks Optimization of Mine Ventilation System	
M.W. Han, X.P. Xie and S.Y. Luo	727
Bolt-Grouting Support in Soft Rock Chamber of Coal Mine H.W. Lv	732
Developing Strategies of Graphite Industry in Heilongjiang Province H.T. Liu	737
Effective Filling Rate in Filling Mining's Influence on Overlying Strata's Movement J. Hao, Y.K. Shi, M.H. Qi and L. Zhang	741
Experimental Research on Deformation Properties of Gangue-Paste Filling Material in Mine J.W. Shi	746
Experimental Study on Spectrum Characteristic of AE during Brittle Rock Fracture under Uniaxial Compression Based on Welch X.Z. Wu, J.W. Liu, H.X. Liu and X.X. Liu	751
Geochemical Characteristics and Comprehensive Utilization of the Main Coal Seams in Wubu Mining Area, Northern Shaanxi Province Z.X. Li, M.P. Li and L.Y. Shao	755
In Situ Stress Measurement and Inversion in Deep Roadway Y. Li, Y.Y. Zhang, R.J. Gao and S.T. Xie	759
Mechanical Property of the Deep Surrounding Hard Rock under Complex Environment Y.S. Liu	764
Mining Project Design under Villages and Comparison Analysis of Mining Method G. Liu, N.Z. Xu, C. Gao and L. Li	768
Numerical Simulation Analysis on Deformation Mechanism of Shallow-Buried Soft Rock Roadway	
Z.C. Tian, L.H. Dong and Y.J. Liu	773
Numerical Simulation of Breaking Arch Evolution Rule of Coal Seams Mining J.Q. Tang, Y.T. Hou, C. Zhang and J. Hao	777
Optimization Analysis of Pillar Position under Inclined Coal Seam Pillar X.J. Liu, Q. Wang, J. Dai and Y.F. Fang	781
Outburst Hazard Prediction Based on the Monitoring Data in Heading Face F.S. Wu and S.W. Liu	786
Research and Application of Phase Space Reconstruction Theory in the Prediction of Slope Failure C.Y. Wang, H.G. Ji and W.D. Han	791
Research and Practice of Rock Mechanics for Mining of Large and Thick Pillars with	/91
Inclusion of Fillings H. Cao, L.K. Xie, X.C. Yang and Z.C. Chen	796
Research of Large-Area Hard Roof Caving Prevention and Control System in Shortwall Mining Face	000
C.W. Zang, X. Zhuang and C.L. Ma	802

Research on Support Technology of Long Anchor in Fully-Mechanized Caving Thick Coal Broken Roadway	
G.R. Yang, J. Li, F. Wang and X.D. Zhao	809
Research on Technology Innovation of Coal Industry under Environmental Regulation Y. Ma, H. Yin and W. Cui	815
Study on Characteristic and Mechanism of Deformation and Failure of Roadway Surrounding Rock in Deep Mining Y. Li, Y.X. Zhao, C. Wang and X.H. Li	819
Study on Contraction of Dust Control System in Continuous Coal Mining Y.H. Ren and Y.P. Qin	824
Study on Energy and Stress of Irregular Failure Zone of Upper Layered in Slice Mining X.B. Zhang, K. Zhou, H.T. Li, J.X. Liu and Y.Y. Zhang	828
Study on Pipeline Self-Flowing Transportation of Cemented Tailing Fill Slurry Based on Fluent Software	022
G.B. Yu, P. Yang, Z.C. Chen and R.Y. Men Study on Pressure Regularity of the Fully Mechanized Coal Mining Face and Evaluation on Support Adaptability	833
X.S. Wang Study on the Principal of Ground Pressure within the Top Irregularly Damaged Zone in	838
Working Face X.B. Zhang, H.T. Li, Y.W. Li, K. Zhou and J.X. Liu	843
Study on Top Slice Irregular Destroyed Areas of Spatial Exploration Location and Mining Method	
X.B. Zhang, H.T. Li, K.X. Zhang, H.B. Liu and Z.S. Tian	849
Test Study of Water-Resisting Ability of Coal Seam Floor Rock Mass C. Fan and X.Q. Jing	854
The Affection of Ke of Coal Seam on Strata Behavior W.J. Wang, H.W. Wang, Z.H. Wang and D. Xu	858
The Applied Research of Loose Blasting Technique in Managing Crushing Accident of Fully Mechanized Coal Mining Face J.W. Wang	863
The Beneficiaries under the Current Pricing System of Global Mines Y. Peng and Q.S. Chen	868
The Research on the Evaluation and Warning Model of Mining Industries' Security L. Xie, Y.W. Xie and K.W. Yang	875
Chapter 2: Rock and Mining Engineering, Coal Mining	
The Theory and Practice of Forepoling Pre-Stressed System Bolt in Preventing the Rib Spalling	
H.Y. Liu, H.S. Jia, L. Fan and B. Han	883
Water Probe in Coal Mine Working Face C. Shi	888
Preparation and Application of the Integrative Hydraulic Drilling and Reaming Completely Technology	
J.J. Cao, Y.J. Zhang, Z.Y. Xu and B.Q. Yuan	892
Chapter 3: Mineral Process Engineering	
Study on Drainage Oil to Prepare Collectors of Coal Flotation J.L. Yang, M.L. Du, J. Liu and C.X. Yu	901
Temperature Dependent Solid-Liquid Extraction Behavior of Rare Earths Using N-Butyl Pyridinium Hexafluorophosphate with Benzoyl Acetone Z.W. Pan, Z.C. Cai, M.J. Bian, T. Lian, Z.Y. Su, Z.Z. Zhang and D.Q. Huang	906
Effect of Leaching Conditions on Dissolution Rate of Potassium from K-Feldspar Calcined Sample	700
X.J. Ren, J.P. Xia, G.Q. Zi, C.Q. Yang, Z.S. Zhang, G.B. Li and J.X. Chao	911

Research on the Thermal Decomposition Process of K-Feldspar-CaSO ₄ -CaO System J.X. Chao, J.P. Xia, C.Q. Yang, Z.S. Zhang and X.J. Ren	916
Application of Combined Collectors in Flotation of Lepidolite G.C. He, J.N. Feng, M.X. Mao and Y.P. Wu	921
Development and Utilization of the Micro-Fine Weakly Magnetic Iron Ore F.J. Li, H.J. Wang, J.R. Zhang, Q.M. Jia and L.B. Zhao	925
Efficiently Utilizing a Low Grade and Complex Copper Ore by Flotation Q. Nie, X.S. Zhou, F.L. Peng, X. Shen and Z.Z. Li	929
Experimental Study on Flotation of a Yunnan Sulfide a Low Grade Copper Ore J. Wang, H.X. Dai and Y.H. Guo	935
Extraction of Copper from a Refractory Copper Oxide Ore by Catalytic Oxidation Acid Leaching	0.41
Q.C. Feng, S.M. Wen, C.Y. Chen, H.F. Zhao, Y.J. Wang and C. Lv Intensifying Magnetic Separation of Iron-Bearing Sulfide Minerals by Electron Beam Irradiation Pretreatment	941
H.F. Wang, S.C. Lu and C.L. Wang Mineral Processing Experiment Research of Low-Grade and Fine-Size Inseparable Lead-	945
Zinc Ore Y.T. Yang, J.H. Zhang and Y. Zhang	950
Present Status of China's Hematite Processing Technology Study F.J. Li, Y.L. Qu, F.P. Li and J.R. Zhang	958
Recovery Copper from a Low Grade and Ultra-Fine-Grained Dissemination Mixed Copper Ore by Flotation	
Y.J. Xian, S.M. Wen, H.Y. Shen and Q. Nie Research of Coal Desulfurization on Microwave	962
Y. Wu, S.Q. Peng, D.G. Ji, Y.Z. Liu and Y.H. Cai Research of the Complex Copper Slag Flotation Experiment	967
Y.H. Guo, H.X. Dai and J.L. Yang	972
Research Status of Gold Recovery from Thiosulfate Leaching Solution Q. Meng, Y.Q. Cui, X. Tong, P. Dong and K. Wang	977
Study on Exploiting and Utilizing Technology of Certain Middle-and-Low-Grade Bauxite X.Q. Chen, J.Z. Yang, Y.L. Mao and W.P. Yan	982
Study on Flotation Techniques of Tailings in Dachang Mining X. Mu, J.H. Chen and D. Kang	989
Study on Mineral Processing Technology of Unutilizable Lead-Zinc Mixed Ore X.Q. Chen, J.Z. Yang, Y.L. Mao and W.P. Yan	993
Study on Recovering Carbon and Iron Concentrate from Flue Slime of Blast Furnace J.X. Zhang, M. Chen, F.S. Niu and L. Li	1001
Study on the Optimal Condition of a Copper-Bearing Gold Ore Cyanide Leaching Using Orthogonal Design	1006
K. Wang, Y.Q. Cui, X. Tong, P. Dong and Q. Meng Tin in the Comprehensive Utilization of Mineral Processing Engineering and its Research	1006
Progress J. Wang, H.X. Dai and L. Luo	1010
Research on Characteristics of Ore-Forming Fluids of Dahongshan Copper Ore Deposit M.G. Deng, C.L. Lv and L. Zeng	1014
A Non-Toxic Depressant for Galena in Differential Flotation of Cu-Pb Sulfides X.H. Qiu	1018
Containing Rare Earth Phosphate Rock Processing and Rare Earth Enrichment in those Processes	
G. Nie, T.C. Sun, S. Li and H.L. Li	1022
Direct Reduction Experiment on Low-Grade Limonite at JiangXi J.A. Chen and J. Liu	1029
Experimental Study on Concentrating Scandium by Leaching from Associated Scandium Ore	
G.F. Zhang, P. Yan and Q.R. Yang	1033
Experimental Study on Extraction of Scandium from Complex Silicate Ore Q.R. Yang, G.F. Zhang and P. Yan	1037

Experimental Study on the Cyanidation of a Low-Grade Gold with High Content of Arsenic in Myanmar	
P. Yang, G.F. Zhang and Q.R. Yang	1041
Flotation Behavior of Smelting Abandoned Copper Slags X. Mu, D. Kang and J.H. Chen	1045
Influence of Collectors on Flotation of Fine Tin Middlings after Gravity Separation W.J. Zhao, M.X. Li, S. Jian, C.H. Zhang and L.P. Feng	1049
Material Flow of the Mineral Resource Development Q.J. Du, L.L. Su and M.M. Liu	1053
Output Work of the Electro-Generative Simultaneous Leaching for Sphalerite-MnO ₂ in the Presence of <i>Acidithiobacillus ferrooxidans</i> L. Xiao, B. Chen, H. Zhong and G.Z. Qiu	1060
Photoinitiation Synthesis and Properties of Anionic Polyacrylamide L.L. Zhang, R.C. Nie, S. Ma and Y.Y. Sun	1064
Research of the Low Grade Fluorite Flotation Orthogonal Test J.L. Yang, Q.J. Liu, Y.H. Guo, H. Xiao and M.G. Jiang	1068
Research on the Flotation Process of Old Tailing in Burma J.L. Yang, Q.J. Liu, Y.H. Guo, M.G. Jiang and H. Xiao	1073
Study of Manufacture Process and Properties of Tailings and Slag Based Mine Filling Cementitious Materials	
J.X. Zhang, S.X. Liu and J. Xie Study on Coal Senerability for Wangaun Indiaed Shoft in Changha	1077
Study on Coal Separability for Wangcun Inclined Shaft in Chenghe X.Y. Yang, M.L. Du, J.R. Zhang and J.L. Yang	1082
Study on Collector for Reverse Flotation of Certain Phosphorite in Guizhou C.X. Li, R.J. Cheng and H.H. Luo	1086
Study on Flotation Process of Coal Slime J.H. Zheng, C.Y. Xu and P.F. Hu	1093
Study on Process Mineralogy and Titanium Separation of Ti-Bearing EAF Slag J.H. Zhang, C.X. Li and L.X. Zeng	1097
Study on the Bulk Flotation of a Low Grade Copper-Molybdenum Ore of Yunnan Province Y.J. Xian, Q. Nie and P. Lu	1104
Study on the Recovery of Sulfur from Multi-Metals Tailings X.W. Lv, X. Tong, X. Xie, Q.H. Zhou, Y.C. Zhou and S.P. Ren	1110
The Application Status of Triboelectric Separation and its Progress J. Wang, H.X. Dai and L. Luo	1114
The Experiments for the Impact of Temperature on the Grinding Rate about Zhao Tong Bauxite	
Q.H. Wang, G.Z. Zhuang and C.M. Wang	1119
Study on Dissolution Behavior of High Titanium Bauxite J.Q. Li, Y. Zou, C.Y. Chen and Y.Z. Jia	1124
Chapter 4: Oil and Gas Well Development Projects	
A Fuzzy Method to Evaluate Remaining Oil Potentiality of PI Group J.Z. Liu and J.C. Xu	1131
A Grey Model for Predicting Water and Oil Production Rate K.P. Song, J.W. Tao and J.C. Zhang	1135
Analysis of Production Characteristics and Prediction of Recovery of Lianhua Oil Layer in Qi 3-17-5 Block	1125
J.Y. Lan, J.C. Zhang and J.C. Wei Application of New Hardware and Software Technology in the Oil and Gas Seismic	1138
Exploration and Development J.M. Hao, W. Zhao, J.G. Zhang and Z.X. Jiang	1144
Cascade Utilization of Waste Heat in Heavy Oil Exploitation by SAGD Technology L.J. Liu, X.Y. Liu and X.P. Zhang	1150
CBM Exploration Prospects Analysis in Northeastern Chian – In Jixi Basin as an Example S.H. Wang, C.W. Xu, B.D. Tan, Y.Z. Wang and J. Li	1157

Characteristics Curve of Multicontact for CO ₂ Flood J. Li, C.L. Liao and S. Li	1161
Compressible Fluids Mitigation Effect Research in Deepwater Oil and Gas Well X.Z. Han, B.K. Gao, H.Q. Zhang, X. Qin and W. Wang	1165
Control Factors of Chang 4+5 Reservoir Properties in Jiyuan Oilfield Q. Zhou and Y.Y. Yin	1171
Controlling Factors of Hydrocarbon Accumulation in Talaha-Changjiaweizi Area H.Q. Yuan, Y.H. Yu and F. Liu	1175
EOS - In the Analysis of Force Balance Conditions for the Formation of Deep Basin Gas L.T. Fu, T.L. Fan, R.L. Qi and Z.Q. Cao	1179
Estimation of CO ₂ Storage Capacity in Oil Reservoir after WaterfloodingCase Studies in Xinjiang Oilfield from West China	1102
X.L. Zhao, X.W. Liao, W.F. Wang, C.Z. Chen, C.L. Liao and Z.H. Rui Evaluation of Potential of Remaining Oil after Polymer Flooding	1183
L.Y. Sun, H.D. Shi, H. Yang and J.C. Zhang Exploration Prospect of Low Rank Coalbed Methane Coal in Huhehu Depression Hailar Basin	1189
C.W. Xu	1196
Investigation on Polymer Adsorption and Retention in a Polymer Flooded Reservoir S.Q. Liu, J.C. Zhang and J.C. Xu	1200
Minimum Gas Influx Calculation in Gas Drilling after Water Production Based on Absorption Characteristics of Rock	1204
X.L. Bi, Y.N. Zhang and Y.L. Yan Oil Containment by Floating Boom under Wave-Current Coupling Condition I: Numerical	1204
Experimental Platform X. Feng, Q.G. Zheng and W.Q. Wu	1209
Optimization of Polymer Injection Program for Second-Class Oil-Bearing Layer L.Y. Song, L.Z. Zhang, H. Yang and J.C. Zhang	1213
Optimization of the Injection Rate of Well Group Water Injection Using BP Neural Network Method Y.L. Jia and J.C. Xu	1219
Optimization Technique in Double Stepped Thin Horizontal Well	1217
S. Fan, Y.X. Li, J.Q. Cao and J.B. Xie	1226
Petroleum Exploration Potential of Xisha Trough Basin in SCS G.J. Zhong, D.M. Liu and G.H. Tu	1230
Research of Retarded Acid Formula System of Qijiabei Oil Field Y.B. Zhang, G.S. Cao and S.W. Cheng	1235
Research on the CO ₂ Corrosion Inhibitor Technology in Oil and Gas Fields Y.P. Cheng, Z.L. Li, H.S. Bi and Y.X. Song	1240
Research Status of Steam Assisted Gravity Drainage (SAGD) Technology H. Liu and X.L. Li	1246
Risks and Countermeasures of the Shale Gas Development in China P. Dong and S.Y. Wang	1253
Scheme to Tap Remaining Oil Potential in Poor Pay Zones J.C. Zhang, S.H. Zhao, J.Y. Lan and K.P. Song	1257
Simulation of Hydraulical Fracture Height by Creating Artificial Barrier C.M. Li and Y.Q. Hu	1262
Study of Development of Medium-Deep Heavy Oil Reservoir Pilot Tests in Henan Oilfield D.J. Xu, R.Q. Liao, F. Zhang, J. Liu and H. Zheng	1268
Study on Influence of Injection Method on the Effect of Oil Displacement of Nanometer Microspheres	1272
J.H. Zhang, Z.M. Zhang, X.L. Chen, Q.B. He and J.F. Li Study on the Dynamic Control Chart of Pumping Wells	1272
J.G. Žhu	1276
Summary and Overview of Development Technologies of Unconventional Oil and Gas Reservoir P.Z. Li and X.G. Zhao	1280

The Current Situation and Prospects of Development of Low Permeability Oil Reservoir L. Cong, W.L. Li, J.C. Lei and R.B. Li	1286
The Effect of Following Water after Polymer Flooding on the Displacement Efficiency with Alternately Injecting Slug of Gel and Polymer/Surfactant J.H. Zhang, Y. Wang, X.L. Chen, Z.W. Qu and D.K. Qin	1290
The Effect of Sand Production on Formation Porosity in Unconsolidated Oil Field X. Liu, C. Zhao and Z.C. Qiu	1294
The Effects of Qijia Oilfield Water Sensitivity to Formation Scaling of Injected Water S.W. Cheng, G.S. Cao, Z.M. Liu and W.W. Yang	1299
The Exploration and Recognition of Stimulated Reservoir Volume for Shale Gas in Sichuan Basin - Taking Well W201 as an Example Y. Sang, S.L. Yang, H. Chen, F. Zhou, K. Qian and W. Shi	1303
The Hydrodynamic Response and Frequency Domain Analysis of Deep Sea Truss Spar Platform	1200
S. Sang, X. Shi and C.D. Li The Prediction of Scaling Time in Producing Wells of ASP Flooding in the Fourth Plant of Daqing Oilfield Q.G. Dang, J.P. Bian and H.L. Cheng	1308 1313
The Seepage Pressure Distribution and the Capacity of Low-Permeability Reservoirs Gas L.D. Yan and Z.J. Gao	1317
A Combined Solution Model for Predicting Development Performance of Low Permeability Reservoirs	
H.H. Zhang, H.J. Yin, C.Q. Fu and M.N. Wang A Design Model of Technological Parameter for Multi-Layer Reservoir Profile Control A.G. Zhang, Z.F. Fan, H. Song and J.Y. Yao	1324 1328
A New Method to Determine Mud Density in Deflecting Well T.T. Li, M. Zhang, H.L. Zhang and L.P. Tang	1328
A Simple Model for Two-Phase Flow in Liquid-Cut Gas Wells T. Liu, Y.C. Li and H.Q. Zhong	1343
Application of the Imitation Horizontal well Technique in the Development of Low Permeability Reservoirs	
Y. Dong and A.Z. Xu Applying Analytic Hierarchy Process to Determine Separate Layer Water Injection Rate of	1350
Single Well W.Y. Shan, W.L. Cui and Y.S. Li	1354
Applying BP Neural Network to Determine Proper Water Injection Intensity of Water Drive Oil Field W.Y. Shan, W.L. Cui and Y.S. Li	1358
Comparison of Gas Content Evaluation Methods in the Log Interpretation of Coalbed Methane	
J. Hou, C.C. Zou, Z.H. Huang and L. Xiao Effects of Different Ions on the Corrosion Behavior of SM 80SS Tubing Steel in CO ₂ /H ₂ S	1362
Containing Aqueous Solution G.F. Lin, X.C. Dong, S.D. Zhu and Z.Q. Bai	1367
Evaluation Model of Profile Control Layers' Selection Based on Fuzzy Cluster Analysis A.G. Zhang, Z.F. Fan and H. Song	1374
Gas Cap and Oil Rim Collaborative Development Technique Policy of Carbonate Reservoir with Condensate Gas Cap H. Song, Z.F. Fan, L. Zhao and A.G. Zhang	1381
Hydrocarbon Accumulation Conditions and Reservoir Characteriscs of Shahejie Formation in Tangzhuang Area M.J. Wang and X.H. Zhang	1391
Influence of Scaling in Alkaline/Surfactant/Polymer Flooding Surface Process N.N. Wei and L.S. Su	1395
Influencing Factor Study of CO ₂ -Assisted Gravity Drainage in Extra-Low Permeability Reservoir	10,0
H. Wang, X.W. Liao, M.M. Li, N. Lu, Y.L. Lv and C.L. Liao	1400
Job Safety Analysis Model of Great Wall Drilling Company Mud Logging Operation J.B. Wang, Y. Luo and W.Y. Cheng	1406

Joule-Thomson Effect on Heat Transfer in CO₂ Injection Wellbore Y. Zhang, C. Hu and Y.C. Song	1411
Numerical Simulation of Stimulated Volume in Low-Permeability Reservoir Z.Y. Liu, T.T. Cai, H.Z. Wang and C.Y. Zhang	1415
Oil Containment by Floating Boom under Wave-Current Coupling Condition II:	
Containment Failure Q.G. Zheng, X. Feng and W.Q. Wu	1420
Regional Estimation of Block Oilfield Rock Physical Parameters L. Cong, Y. Liu, W.L. Li and H.O. Fang	1425
Research on Coupled Flow in Deformation Medium Reservoir with Cave L. Yang and H. Lin	1429
Research on Efficient Microbial Enhanced Oil Recovery Technology Based on Low- Temperature Heavy Oil G. Wu, F.P. Ren, J. You, J.L. Yu, Y.T. Pei and S.S. Liu	1434
Research on Residual Oil Distribution Regular of Steam Flooding after Polymer Flooding S.M. Shi, H.B. Wei, B. Li, H. Lou and D.K. Huo	1440
Research on Result Prediction of Coal-Bed Gas Wells Fracturing by Using Expert System C. Ai, C.Y. Hu, Y.W. Li and F.J. Wang	1445
Research on the Control Method of High Power APF for Oil Drilling Rig N.Q. Jiang, M.H. Zhu and Y.F. Xie	1450
Research on the Controlling Factors and Grate Prediction of the Output of Pulverized Coal in Hancheng Block, Eastern Ordos Gas Field	
X.Y. Xiong, D.Y. Cao, M.X. Jie, Y. Bai, X.S. Zhu, Y.Q. Che and A.X. Zhang	1460
Study on CO ₂ Injection for Enhancing the Oil Recovery at Gao89 Block in Shengli Oilfield S.L. Shi, J. Kang and M. Li	1464
Study on Streamline Distribution of Horizontal Linear well Pattern in Anisotropic Reservoirs	
C.L. Zhang The Application of Non-Acid Plug Removal Technology in Sandstone Formation	1468
P.F. Shen, L. Li, Y.S. Chen, W.J. Luo, N. Ji and J. Li	1472
The Application of Seismic Sedimentology in Prediction of Channel Sand in Pu I Formation, Gaotaizi Oilfield	
T.T. Li, Z. Wang, S.Z. Ma and Z. Wang	1476
The Research for Delaying the Bottom Water Coning in Horizontal Wells Application Balance Screen Pipe W.Y. Shan and X. Zhang	1480
The Research on Improving the Efficiency of Injection-Production of the Lamadian Oilfield in Ultra-High Water Cut Stage	
C.L. Nie, S.Z. Ma and H.K. Chen The Descends on Steering Executive Numerical Simulation	1484
The Research on Steering Fracture Numerical Simulation Z.Y. Liu, L.H. Yao, H.Z. Wang and C.C. Ye	1488
$\label{lem:condition} The Stress Calculation of Sidewall Rock in Hydraulic Fracturing Basing on Damage Theory C. Ai, Y. Liu, Y.W. Li and Z.Q. Wang$	1493
The Study and Application of Massive Hydraulic Fracturing Technique in Y104-6 Well Glutenite Formation C. Lu, J.C. Guo, R.J. Xue and J. Wang	1498
The Study of the Start and Stop Cycle of the Gathering and Transportation by Electrical	1470
Heating F.Y. He, Y.R. Gao and S. Chen	1503
Chapter 5: Metallurgical Engineering	
Study on Amplitude of the Surface of Liquid Steel in Bottom-Blowing Ladle with Immersed Tube	
D.H. Zhang, M.G. Shen, Q.H. Qi and J.W. Kuang	1511
Balance of Raw Input and Energy of Titanium Slag Smelting in Closed High Power Direct Current Electric Arc Furnace F.X. Han, X.L. Sang and J.X. Xu	1516
1 .11. 11mi, 11.11. Dulig uliu v.11. 11m	1510

Effect of Na ₂ SO ₄ on the Decomposition Rate and Product Size in Seed Precipitation Process J.W. Wang, C.Y. Lu, Y.Z. Jia and C.S. Lv	1522
Effect of Na ₂ SO ₄ on the Salt Discharge from Sodium Aluminate Liquor J.W. Wang, Y.Z. Jia and J.Q. Li	1526
Effects of Ce or Nb Addition on Nucleation of Pearlite in High Carbon Steel Y. Liang, Z.Y. Shi and Y.L. Liang	1531
The Influence of Electro-Deposition Time to the Distribution of Silicon in Ferrosilicon Alloy J.L. Liang, H. Li and Y.G. Li	1536
Characterization of Preparing Cold Bonded Carbon Bearing Pellets of Metallurgical Dust for Direct Reduction	
J.S. Zuo, C.B. Wu, Z.Y. Kang, J. Lei and Y.Y. He	1540
Particles Movement Simulation of Screw Transporting in Rotary Kiln P. Xu, M. Cheng, J. Liu and X.F. Liu	1547
Preparation of Alumina from Fly Ash by Sulfuric Acid Y.L. Lv, C.Y. Chen and Z.H. Mao	1551
Study on Nickel Nanopowders Prepared by Arc Plasma C.H. Hou and Y.G. Chen	1555
Chapter 6: Urban and Regional Planning	
Relationship between Irradiation Direction of the Light Source and Direction of Visual Axis H.T. Zhao, Y.P. Hu and Q. Yao	1561
A Critical Assessment of the Sustainability Performance of a Typical Mega City in China - A Case Study of Jinan M.X. Sun, Y.T. Wang, S.P. Zhang and R.Q. Wang	1565
A Framework for the Study of Urban Space Form Oriented Toward Low-Carbon Travel	1303
Y.W. Zhang, J. Li and Z.M. Xu Development of an Evaluation Model for the Level of Rail Transit Service	1570
Y.Y. Guo, Y. Wu, L. Bai and R. Fan	1574
Development of an Evaluation Model of Freeway Traffic Safety Facilities System Y.Y. Guo, Y. Wu, L. Song and H. Duan	1578
Discussion on the Characters and Problems of the Slow Traffic System for the Technological Development Zone Y. Li, Y.Y. Feng and S.R. Zhang	1582
Research on Economics and Traffic Survey City Area X.Y. Ye and J.B. Song	1586
Research on Public Bicycle Rental Station Layout C. Zheng, X.F. Wang and C. Wu	1590
A Study to Setting Function of Queuing Discipline in Highway Tollgate L.Y. Wang and Y. Feng	1594
Study on the Number of Berths of Road-Side Bus Stop S.S. Zhao and X.N. Zhu	1598
A Portable Subway Logistics System for the Transportation of Small and Medium-Size Cargo	
L.S. Wang and Q.M. Deng	1604
Application of Catastrophe Theory in Traffic Flow of Highway Tunnel Group W. Zhan, Y.Q. Shang and F.X. Chi	1609
Efficiency Rating of Vision in Terms of Prevention of Road Accidents at Work I. Turekova, M. Rybakowski, Z. Szabova and G. Dudarski	1613
Research on the Real Options in Investment Decision of Waterway Infrastructure Construction W. Jin	1617
Study on Development Pattern of Public Transportation in Fuzhou City	1617
A.X. He Study on the Application of CVM in the Social Benefits Valuation of Urban Mass Transit	1621
J. Chen	1625

Study on Urban Emergency Event Forecast - Taking Urban Traffic Accident in China as Example	
D. Lu, Y.W. Wang and X.F. Niu	1629
The Research on Local Transport of Goods which by the Means of City Subway L.S. Wang and Q.M. Deng	1637
The Role and Development Prospects of the Ropeway in Urban Transport System H. Wu, X.W. Wu, H.Q. Huang and H.J. Wang	1641
Chapter 7: Development and Management of the Energy and Power Industry	
The Logistics Risk Assessment Studies of the Large Equipment of Hydropower Project Based on Three-Dimensional Structure D.H. Jia and S.J. Wang	1647
The Decision-Making Optimization Model of 3E System Based on the Entropy M.J. Lv, C. Li, J.Y. Jin and X.L. Shen	1656
A Review of Influential Factors and Evaluation Models of Energy Efficiency in China B. Wang and C.Y. Wu	1662
An Empirical Analysis of the Relationship between Economic Growth and Energy Utilization in China	1666
F.H. Yang, P. Zhang and X.W. Wang Comprehensive Use of Renewable Energy in Building	1666
L.P. Li and S. Fan	1671
Conflict of Coal and Electricity Price's Impact on National Economic Development A.P. Deng and Y.X. Deng	1675
Electricity Consumption Analysis Using Demographic Variables Case Study – Nakhonratchasima, Thailand S. Meehom and N. Khodpun	1679
Empirical Analysis on Total-Factor Energy Productivity Growth in China with DEA Method	1702
Z.Y. Ji	1683
Industrial Structure Adjustment, Technology Innovation and Energy Efficiency Improvement - An Empirical Analysis Based on the Statistical Data of Hubei Province D.Q. Duan and Q.H. Hu	1688
Multi-Objective Evaluation Method of Thermal Power Enterprise Cost Effective Research Z.H. Li and M.Z. Chen	1693
Research on the U.S. Coal Cupply-Demand Network P.P. Zhang, T.H. Shan and C.C. Fang	1697
Study on the Transition to Low-Carbon Electricity in Coal Industry in Shandong Z.W. Liu, B. Gao and P.Z. Gao	1702
The Main Energy Problems and the Countermeasures of the Economic Development in China J.Q. Ren and X.T. Shan	1707
An Improved Historical Simulation Method to Estimate the Amount of Refined Oil Retail Value at Risk VaR	1/0/
Y.T. Wan, Z.G. Zhang and L.T. Zhao	1711
Analysis for the Global Demand of Energy in the next 20 Years Q.Y. Liu, A.J. Wang and Q.S. Chen	1719
Analysis of Social Total Cost of Thermal Power and Nuclear Power Z.H. Li and M.Z. Chen	1724
Applying ARIMA and Fuzzy Logic to Predict the Electricity Spare Parts Demand Y.K. Cao and Y.F. Li	1728

Chapter 7: Development and Management of the Energy and Power Industry

Dynamic Transmission Power Control Mechanism for Maximizing Energy Efficiency of WLAN	
G. Ding, D. Liang, W.B. Wang and S.L. Liu	1737
Evolution of Carbon Emission of Fossil Fuel Final Consumption in China: Industrial - Spatial Perspective	
G.Q. Yin, L.L. Xu and X. Du	1743
Renewable Power Generation Management: Case Study – Nakhonratchasima Province, Thailand	
S. Meehom, W. Iaprasert and T. Kulworawanichpong	1747
Spatial Pattern Evolution of Coal Consumption at Provincial Level in China K.Y. She and W.J. Chen	1752
Study on the Evaluation Index System of Regional Energy Use Efficiency H.W. Zhang and Z.R. Lan	1757
Study on the Evaluation of Electricity Market Operational Efficiency Based on Synergetic Theory	1766
P.Y. Zhang and S. Liang Study on the Machanism for Profit Distribution in Energy Supply Chain	1766
Study on the Mechanism for Profit Distribution in Energy Supply Chain Q.N. Song	1772
The R&D Trend of New Energy and Energy Development Strategy in Hebei Province Y.G. He and Y.Z. Li	1781
Chapter 8: Global Climate Change and International Cooperation on Reducing and Control Carbon Emissions	
Greenhouse Gas Inventory for Energy Sector of Khon Kaen Province, Thailand J. Namta and T. Wongwuttanasatian	1789
A New Improved Decomposition Model Based on Laspeyres Index: A Case of CO ₂ Emission in China from 1996-2011 L.N. Wang, D. Ma and W.Y. Chen	1797
Allocation of China's Carbon Emission Right Based on Different Perspectives J.X. Deng and Z. Wang	1804
Analysis about CO₂ Emissions Related to Household Consumption S.L. Li, Z.Y. Qi and Z.L. Yang	1808
Analysis on Chongqing's Carbon Balance Based on Carbon Footprints G.M. Rao and Y. Wang	1813
CH ₄ Emissions Reduction Potential of Rice Paddy Ecosystem in South Jiangsu Province L. Zhong, H. Zou and X. Hao	1820
Comment on Credible Terrestrial Carbon Market Mechanism and Future Development Z. Jing and J.Y. Li	1824
Green Resources, Environmental Technology Innovation and the Green Firm-Specific Advantage of High-Carbon Enterprises X.H. Zhang and Y.L. Wang	1829
Research on SO_2 and CO_2 Emission Characteristics and Emission Efficiency in China J. Xue, H. Luo and B.L. Zhang	1833
Research on the Barriers and Strategies of IPRs for LCT Transfer J.J. Ma, X.F. Chen and S.Z. Hong	1842
Research on the Establishment and Operational Mechanism of Forest Carbon-Sink Market in Coal Industry Y.F. Weng	1848
The Assessment and Reduction Approaches of the Carbon Emission in Jiangmen, China B.Z. Zhu and Q.J. Zhang	1852
Renewable Energy and Carbon Footprint Emission at University Technology Malaysia (UTM)	
Z. Yazdani, A. Naderipour and M.Z. Kamsah	1861
Assessment of the Trend of Albedo: A Case Study of Palermo V. Franzitta, A. Viola, M. Trapanese and S. Costanzo	1865

A Study on the Effect of Climate Change Initiative in Reducing Greenhouse Gas in Home Heating Sector in South Korea K.G. Lee, J.C. Park and W.H. Hong	1870
The Development on Production Mechanism and Influence Factors of CH ₄ Exchanging Flux from Grassland Ecosystem N. Zhang, S. Ly, J. Ding, V. L. Vang, B. Liu, O. S. Zhao, J. L. Duan and B. L. Mei	1874
X.X. Zhang, S. Lv, J. Ďing, Y.L. Yang, P. Liu, Q.S. Zhao, J.J. Duan and B.L. Mei The Influence of Grazing Intensity on Exchanging Fluxes of Nitrous Oxide, Methane and Carbon Dioxide from Grassland H.X. Wang, L.X. Wang, Q.S. Zhao, J.J. Duan and B.L. Mei	1878
Evaluation of Post-Combustion CO₂ Capture Technologies Y. Li, Q.M. Wang and P.B. Wang	1881
Calculation of Global Warming Potential and Environmental Cost Depending on Recycling Option of Destruction Waste Wood G.W. Cha, W.H. Hong and S.W. Shin	1887
Analysis on Emission Reduction Targets of Carbon Dioxide in China Y.D. Zhang and T. Zhao	1891
Analyzing the Driving Effect of Influence Factors on CO ₂ Emissions Using the STIRPAT Model in Tianjin of China T. Zhao and X. Gou	1896
Calculation of Terrestrial Carbon Sink Capacity in Dongying City, Shandong Province Z.J. Li	1901
CO ₂ Storage Capacity Assessment of Deep Saline Aquifer in Central Depression of Songliao Basin X.Y. Yang, Y.F. Liu and J.J. Wang	1905
Driving Factors Analysis of Carbon Dioxide Emissions in China Based on STIRPAT Model Q.Z. Zhao and Q.Y. Yan	1910
International Experience and Enlightenment of Energy Saving and Emission Reduction in Logistics Industry D.P. Zhang and X.Y. Hua	1915
On Establishment of Incentive Mechanism of Energy Conservation and Emission Reduction for Enterprises in Jilin Province J. Lv, J. Ma and P. Liu	1919
Research on Energy Saving and Emission Reduction Countermeasures for China's Logistics Industry D.P. Zhang and X.Y. Hua	1925
Research on Land Use Carbon Emissions Empirical in Guangdong Province Y. Yu, C. Du, X.L. Xu, C.C. Hu, J.Y. Zeng, E.L. Li, H.L. Miao and K.K. Liu	1923
State of the Art in Low Carbon Community Development Y.X. Lv, L. Sun, C.Q. Xu and D.Y. Guo	1933
Study on the Carbon Balance Trading under the Framework of Ecological Compensation Q.M. Yin and J.H. Liu	1938
Synergetic Abatement of Carbon Emissions and Air Pollution in China H. Mi, W. Zhou, X.F. Yu and N. Feng	1942
The Comparative Study of China's Low Carbon Pilot Provinces CO ₂ Emission Characteristics and Influence Factors H.W. Zhang, S.Y. Zhang and L.Y. Shi	1948
The Impact on Carbon Emissions of Xinjiang's Population Structure Y.Y. Guo, X.Y. Ma and A.D.L. Tu Er Gong	1956
Structure Decomposition Analysis of the Carbon Footprint Differences between Beijing and Tianjin	40.5
Y. Wang, H. Zhang and T.Y. Wang	1960
Chapter 9: Ecological Economy, Circular Economy and Low-Carbon Economy	

Research on the Construction of Domestic Ecological Civilization Cities K.B. Liu, Y.H. Li, P.F. Wang and H.B. Li

1967

Construct Evaluation Index System of Low-Carbon Economy & Development Ability L.C. Zheng and Z.C. Cai	1971
The Barriers and Countermeasures of Implementing Ecological Poverty Alleviation in Concentrated Poverty Areas X.E. Li and Q. Li	1976
The Construction of Evaluation Index System on China's "Two-Oriented Society" and Empirical Study Y.L. Ma, Y. Zhao and X. Li	1981
Building a System Dynamic Model of Regional Low-Carbon Development Y.Y. He and X. Tan	1987
Development and Utilization of Mineral Resources Based on Circular Economy in Southern Jiangxi J.Z. Nie, G.H. Zhang and Q.W. Huang	1991
Errors and Solutions of Developing Circular Economy in Coal Enterprises Y.F. Weng	1991
Low Carbon Development Research on Coal Enterprise - Xinwen Group as an Example G.B. Li	1999
Low-Carbon Economy: Essential Route of Sustainable Development of Shaanxi Economy W.H. Bu and D.S. Chen	2004
Promote Low-Carbon Economic Development by Implementing Low-Carbon Marketing H.H. Shi, G.J. Wang and Z.Q. Wu	2008
Research on Reverse Logistics System of Energy-Intensive Industry Based on Circular Economy J.L. Zheng and R. Zeng	2012
Researches on Problems and Countermeasures of Low-Carbon Economy in China Z. Li	2016
Study of System Dynamics on the Equilibrium Development of Ecological and Economic System in Ordos of Inner Mongolia in China W.L. Ke, J.H. Sha, G.F. Zhang and J.J. Yan	2021
Study on Low Carbon Product Design from the Perspective of New Lifestyle G.M. Huang and L.L. Liu	2031
Study on Low-Carbon Development to Transform and Improve Electric Power Industry in Shandong Province P. Miao	2035
Research on the Relation between Corporate Social Responsibility Practice and Financial Performance under the Low Carbon Economy — From the Case Analysis of CNPC H. Wang, D.H. Xie and Q.J. Chen	2041
Algorithm and Simulation of Chinese Traditional Industrial Clusters Low Carbon Evolution Based on Evolutionary Games Theory on Complex Networks R.G. Fan, H.J. Zhang and P.F. Zhang	2047
An Application of Ecological Compensation Mechanism Framework: A Case for Yulin County	
H.B. Zhang Dynamic Assessment of the Development of Circular Economy of Ningbo City, Zhejiang	2053
Province B. Zhou, L.L. Chen, C.L. Hu, L.G. Wang and S.L. Mu Research on Development Patterns of Low-Carbon Economy in China	2059
J.X. Mu Study on Development Status and Countermeasures of Low-Carbon Tourism in	2065
Heilongjiang Province Z. Tang	2069
Study on the Path to Executing Eco-Engineering and Circular Economy in the Resource Enterprise Z.H. Miao and C.Z. Yang	2073
Tangshan City Marketing Strategy Research Based on Low-Carbon Economy A.Q. Gao, L.J. Tian and Y. Liu	2078
The Study on the Low-Carbon Transformation and Sustainable Development of the Resource-Based Cities J.H. Wu, X.H. Huang and Y. Gao	2082
v.11. 11 u, 23.11. 11 uaii 5 uii u 1 . Ouo	2002

Chapter 10: Engineering Materials and Processing Technologies

Mediator System	
F. Liu, Y. Liu, J.C. Chen and Z. Wang	2089
New Strength Agent: Corn Stalk Pulp Applied on Package Board J. Zheng, G.W. Sun, S.J. Zhang, F.Z. Liang and S. Hu	2094
Synthesis and Antioxidant Activity of Carboxymethyl Chitosan-Selenium L.M. Jin, N. Geng, C.S. Quan and S.D. Fan	2100
The Evaluation of Lignin Structure Changes of both pH4 and pH2 from Hardwood Dissolved Soda-AQ Lignin by ³¹ P-NMR J.C. Chen, Y. Liu, J.C. Chen and L. Lucia	2104
Using Controlled Graft Copolymerization Technology to Prepare Structure-Controllable Cellulose Functional Materials D.J. Li, Y.J. Fu and M.H. Qin	2108
Intercalation of Gelatin in Monohydrate Zirconium Hydrogen Phosphate Y.D. Sun and L. Tang	2113
Numerical Simulation of Thermal Sensitivity for Explosives X.R. Zhang, X. Dan and L. Zhou	2116
Synthesis of Dimethyl Carbonate from Carbon Dioxide, Propylene Epoxide and Methanol T. Fang, C.J. Liao, Z.X. Duan and G.Z. Fan	2120
The Effect of Thickness on the Properties of TGZO Thin Films for Optoelectronic Devices T. Zhang, H. Wang, Z.Y. Zhong and C.Y. Yang	2124
One Step Synthesis of \(\epsilon\)-Caprolactam from Cyclohexanone and Hydroxylamine Catalyzed by SO3H-Functioned Ionic Liquids H.F. Wang, H.T. Liu, L.Y. Jia, Y.Y. Wang and Y.J. Wang	2128
Study on the Elemental Analysis and Relative Molecular Weight of 5U Rock Asphalt J. Li, X.N. Zhang, Y. Liu and C.H. Wu	2132
Synthesis and Properties of Dispersive Type High Temperature Filtrate Reducer Used in Oil Well Cement D.H. Ma, Z. Wei and Z.G. Wang	2136
Preliminary Study of Preparation and Properties of Activated K-Feldspar-Filled Hydrogel Materials	
H.Y. Shen, L.R. Fan, B.M. Pan and J.Q. Song Preparation and Characterization of KGM/PVA Composite Nanofibrous Membranes X.C. Du, X.Y. Lin, Y.H. Huang, Y. Li and X.G. Luo	21412145
Fabrication and Photocatalytic Performance of \mathbf{SnO}_2 Prepared under Ultrasonic Vibration Z.H. Xiao and T. Wang	2151
Characterization of Nickel-Antimony Doped Tin Oxide Electrodes Prepared via Sol-Gel Dip-Coating Method	2155
Y.H. Wang, Z.Z. Nie and Y.R. Liang Copolymerization of Carbon Dioxide and Propylene Oxide Catalyzed by Salen Complexes C.W. Jiang, C.C. Zhao and K.Y. Zhou	2155 2159
Photocatalytic Decomposition of Methylene Blue with Lanthanum Doping TiO ₂ under Visible Light Irradiation	
G.X. Cao, Z.H. Zhang and B. Zhai Physicochemical Characterization of the Magnetic Fe ₃ O ₄ /MO-Intercalated-Layered Double	2163
Hydroxide Composite D. Chen, X.L. Ma and Y. Li	2168
Preparation and Characterization of Poly(Vinylidene Fluoride) Hollow Fiber Membranes via Modified Thermally Induced Phase Separation Process A.W. Qin, X. Li, B.M. Ma, C.Y. Liu, X.Z. Zhao and C.J. He	2172
Preparation and Characterization of Self-Healing Microcapsules Containing Two-Component	2176
X.M. Tong and C.F. Li Preparation and Characterization of the C ₂ H ₅ COOH-Graphite Intercalation Compound	2176
M.S. Zhou and J.C. Xia	2181

Preparation of PVB/ β -CD/Silica Nanofibers Using Electrospinning Techniques X.L. Ma, Z.Y. Wu, Z. Chen and S. Chen	2187
Preparing and Applying of Flame Retardant Microcapsules Containing Magnesium Hydroxide L.L. Wu, Y. Lian, D. Liu, H. Zheng and D.W. Huang	2191
Research Progress on Surface Coating of Magnesium and its Alloys as Biomedical Materials W. Zhang	2195
Synthesis and Catalysis of Fe ₃ O ₄ Nanoparticles for Degradation of Rhodamine B G.H. Wang, K. Chen, W.B. Li, D. Wan, Q. Hu and L.L. Lu	2200
Synthesis and Photocatalytic Activity of Ag-Doped BiVO ₄ W. Zhao, C.H. Hu, R. Chen, F.Z. Lv, Y. Zhong and H.Y. Zhou	2204
Effect of Porous-Jump Model Parameters on Membrane Flux Prediction H.H. Li and Y.Y. Cheng	2210
Inhibition of Corrosion and Scale Formation in Oilfield Produced Water Recycling System J.W. Zhang, G. Li and Y. Liu	2214
A Review on the Use of Chitosan and its Derivatives as Radical Scavenger and Metal Ions Chelating Agent	
H.Y. Dou, X.Q. Chen and Z.Q. Li	2218
Investigation into Acceleration Efficiency of Ultrasound in Dyeing Process D.S. Sun, L. Fang and T. Liu	2222
Technique of Instantaneous Ultrasonic Extraction and Reverse Osmosis Concentration on Polyphenols of Chinese Herbs Y. Ye, M.Y. Li and H.T. Xing	2226
Research on the Influence of the Tension on Dielectric Strength of the Unidirectional	2220
Direction Glass Fiber Reinforced Composites F. Tian, S.L. Xing and Y.S. Luo	2230
A Preliminary Study of the Carbon-Based Solid Acid Preparation Process Y.L. Li, L.P. Mao, C.F. Xu and S.Y. Li	2236
An Efficiently Brominated Flame Retardant Composed of Decabromodiphenyl Oxide and Antimonous Oxide for Long Glass Fiber Reinforced Polypropylene X. Luo, M. He, J.B. Guo, K.Z. Zhang and B. Wu	2240
Application of Energy-Saving Magnesium Alloy in Automotive Industry C.P. Du and D.F. Xu	2244
Comprehensive Utilization of Resources of Titanium Dioxide at Home and Abroad K. Chen, B.J. Xu, C.J. Huang and Y. Xu	2248
Effect of CaCO ₃ Particle Size and Size Distribution on Rheological and Mechanical Properties of Polyethylene	
F.W. Qi, X.G. Luo, X.Y. Lin and S.Z. Zhang	2252
Effect of Oxygen Partial Pressure on Formation of Fe₂O₃ Nanostructure during Thermal Oxidation J.Z. Wang, C.H. Xu, Y.F. You and J.P. Wang	2256
Effect of Pulsed Electric Fields on the Antibacterial Activity of Ovotransferrin and	2200
Mechanism of Action T.H. Zhang, D.R. Liu, Y. Yuan, J. Zheng, H.Q. Ye, C.Y. Xi, Y.G. Yin and S. Ahmad	2260
Effects of Dipping Pretreatment on the Flame Deposition of Carbon Nanostructure on the Low Carbon Steel Substrate	2260
H.M. Zhu, S.M. Lei and T.C. Kuang Efficient Organe Organic Light-Emitting Devices Using N-arylbenzinmidzoles as Blocking	2269
Layer H.S. Yang and L.S. Wu	2273
Enhanced Photocatalytic Performance of SnO ₂ Doped with Fe ₂ O ₃ S.T. Huang, Z.H. Xiao, J.Z. Li, J.B. Zhong, W. Hu and J.J. He	2278
Hydrogen Peroxide Bleaching to Wine Corks with a Novel Catalyst L. Liu and S.L. Cui	2282
Impact of Rheological Properties of Fiber Asphalt Mortar on Mixture Road Performance D.D. Guo	2287
Laboratory Investigation of Pavement Performance of Warm Mix Asphalt with Different Addition Methods	
Q.Y. Zhu, Y.M. Zhang, G.W. Hu and Y. Zhuang	2292

Loading of HgS Nanoparticles on the Silica Microspheres S.Z. Kang, Y.K. Yang, X.Q. Li and J. Mu	2298
Mechanical Properties of a Novel Kind of Biomass Cellular Material Prepared from Forage Grass	
C.L. Yun, X.G. Luo and X.Y. Lin	2302
Numerical Study of Dynamic Crack of 1D Hexagonal and 3D Icosahedral Quasicrystals L.P. Du, X.J. Xu and Y.L. Tan	2306
On the Calculation of Effective Anisotropy Constant of Nanoparticle L.L. Afremov, T.N. Gnitetskaya and E.B. Ivanova	2310
One-Pot Synthesis and Visible Light Photocatalytic Activity of AgIn ₅ S ₈ /AgInS ₂ Composite X.Q. Li, D.L. Wei, S.Z. Kang and J. Mu	2314
Overview of the Development of Consolidation Theory of Unsaturated Soils C.Y. Lu and S. Zhu	2318
Preparation of Nanosized Strontium Titanate Powder by a Nitrilotriacetate Precipitation Method	
W.B. Yan, F. Gao, J. Hua and Y.J. Li	2324
Preparation of PST Ferroelectric Thin Films by Sol-Gel Process Y.F. You, C.H. Xu, J.Z. Wang and J.P. Wang	2328
Research of Anti-Corrosion of Armour Steel in Surface Chromate Conversion Coating R.H. Guo, F.S. Liu and L.M. Wang	2332
Research of Nano-TiO ₂ Composites on Malachite Green Decolorizing Effect R.Q. Gao, D.D. Huang and Z.K. Wang	2338
Research on Virtual Manufacturing of Chain Rolling Cold Bend Section Steel Model G.C. Li	2342
Study on Corrosion Resistance and Mechanical Property of Welding HAZ Treated by Laser Surface Remelting Y.L. Li, J.R. Qi, D.F. Zhang, J. Liu and C. Li	2346
Study on the Enhanced Visible Photocatalysis Activity in Transition Metal Doped ZnS L. Guan, A.L. Wu, T.K. Gu and W.W. Yu	2351
Study on the Properties of Geocement Based Thermal Insulating Materials for High Temperature Technical Appliances V. Petranek, S. Guzii, K. Sotiriadis and L. Nevřivová	2356
The Influence of Fe ³⁺ Doping on the Crystallization of TiO ₂ and their Photocatalytic	
Activity T. Wang, K.L. Yin, H.F. Yang, Q.H. Tian, L.G. Wu and Y.F. Tang	2360
The Reduction Properties of Hexa Aluminates Substituted by Different Metal Ions for Denitrification System	
X.G. Ren, F.X. Li, P. Li and W. Hou	2364
Wear Behavior of Mg Alloy Procduced by Equal Channel Angular Extrusion L.L. Gao and J.Z. Zhang	2369
Structure Studies on Order Assemblage of Nickel II Complexes Y. Liu, X. Yang, H.K. Li, H.X. Tian and J. Gao	2373
The Analysis of the Film Morphology B.X. Zhao, Y.J. Du and X. Sui	2377
Silver Co-Doping Effect on the Antimony Doped Tin Dioxide Electrode Y.H. Wang, Y.R. Liang and G. Li	2382
An Experiment Study of the Effect for the Fuel Additive Using in Fishing Vessels Light Diesel Engine Performance T.L. Yang and C.W. Lin	2386
Influence of Ti-Doping on the Thermoelectric Properties of ZnO:Al Thin Films	2500
Q.Y. Lin, P. Fan, J.T. Luo, Z.H. Zheng, Y.Z. Li, M.Q. Zhang and C.M. Chen	2391
Research on Preparation of New Aluminum Silicate Fiber Adiabatic Paper H.R. Yang, C.S. Zhao and D.M. Yu	2395
Study on Electrochemical Flotation of Low Rank Coal Macerals S.Y. Zhao, A.N. Zhou and S.Z. Lv	2399
Study on Electronic and Optical Properties of Al-Doped ZnS from Density Function Theory A.L. Wu, L. Guan, T.K. Gu and P.Y. Feng	2405

Study on Supercapacity Properties of Manganese Dioxide Active Material by the Cation Concentration Change on the Electrode Surface	
J.M. Zhang, P. Wang, G.P. Zhang, Y.W. Li and T. Cao	2411
Synthesis and Thermal Conductivity of ZnO Nanofluids W. Jiang, J.W. Su, C.Y. Zhang, D.X. Wu and H.T. Zhu	2415
Thermochromic Properties of VO ₂ Films Deposited on Quartz Glass X.L. Zhao, Y.Z. Zhang, Y.Z. Cao, L. Yan and X. Wang	2420
Gold Nanoparticle Resonance Rayleigh Scattering Spectral Determination of Trace Au (III) J. Peng, C.N. Jiang, L.L. Ye and A.H. Liang	2426
Preliminary Study on the Electrolysis of Titanium Oxysalt K. Zhao, Y.W. Wang, S.H. Tao and N.X. Feng	2430
Electrification Theory and Experimental Research of Aluminum-Based Metallic Material H.Z. Zheng, X.F. Hu, G.H. Fan and X.Y. Zhang	2434
Sediment from the Yellow River Salvaging as Glass-Ceramics S.H. Wang, Y.X. Li, Y. Yang and H. Zhang	2439
R _a P. Wang, T.Y. Li, X. Zhu and G.X. Pan	2443
3D Modeling Based on Multiscale FE Analysis of Irregular Porous Materials Y.J. Zhang	2451
A New and Sensitive Hydride Generation-Nanosilver Resonance Rayleigh Scattering Spectral Method for Trace Se (IV)	
S.S. Huang, A.H. Liang, M.L. Tang and Z.L. Jiang	2456
A Performance Study of Self-Piercing Riveting of Aluminum and Copper Alloy Sheets C.J. Deng, X.C. He and B.Y. Xing	2460
Analyzing on the Reasonable Composition of High-Chromium Alloy Cast Iron to Make the Mud Pump Shell of Dredger	2465
J. Yan, H.L. Bai, J. Liu and D.J. Song Carbon Fiber Application Analysis in the Apparel Field Y.X. Zhao, L.M. Shi and Y.L. Li	24652470
Characterization and Performance of SO ₄ ²⁻ / SnO ₂ / MCM-41 for α-pinene Isomerization C.H. Wu, Y.J. Qin, X.Y. Dai and G.B. Du	2470
CIGS Thin Film: Synthesis and Characterization G.X. Liang, P. Fan, Z.H. Zheng, J.T. Luo, D.P. Zhang, J.R. Chi, C.M. Chen and J. Zhao	2480
Comparison Friction and Wear Properties of Overbased Calcium Sulfonate Complex Grease and Polyurea Grease	2404
Y.J. Gao, X.Y. Ge, Z.Z. Wen and Y.Q. Xia Influence of Technological Parameters on Sheet Metal Punching Section Quality	2484
X.C. Mao, Z. Mei, R.Y. Liu and D.S. Luo	2488
Post-Annealing Effects on the Surface Roughness of Undoped and Al-Doped ZnO Thin Films Deposited by Atomic Layer Deposition Y.J. Choi, K.M. Kang and H.H. Park	2492
Preparation of High Purity Alumina Technology Overview	2492
X.F. Fu, B.J. Xu and C.J. Huang	2496
Rheological and Thermal Properties of Blends of Recycled LDPE and Virgin LDPE X.Y. Zhao, X.G. Luo, X.Y. Lin and X. Qi	2501
Spontaneous Formation of DTAB/SDBS Vesicles L.L. Cui and H.N. Guan	2505
Study on the Performance of Cool Storage Material for Vaccine Transportation T.H. Zou, Q.D. Hong, X.Y. Song, C.H. Li and B. Liu	2509
Study Pressure-Cyanide Dissolution Different of Metal Palladium and Platinum Powder L. Yan and J.S. Zhao	2514
Superhydrophobic Film Make up of Corrosion Aluminum Plates and Polypropylene Coated R.M. Wu, G.H. Chao, H.Y. Jiang, H. Chen and Q.L. Liu	2519
Synthesis and Electrochemical Performance of Spinel LiMn $_2$ O $_4$ Modified by CNTs H. Zhang, Z. Zhang, L. Zhao and X.Q. Liu	2523
Synthesis of Anatase/Brookite Mixtured TiO_2 Nanoparticles by a Chimie Douce Technique Y.M. Gong, Q. Liang, J. Guo, H. Zhang and F.C. Guan	2528

Synthesis of Di(Chloroethyl) Phosphite	
H.Y. Chu and Z.R. Chen	2532
Synthesis of High-Quality MCM-41 Using Silica Fume as Silica Source M.M. Li, W.J. Zhu, W.H. Ma, Y. Zhou and K.Q. Xie	2536
Synthesis of LiFePO ₄ /C Composite Cathode Materials by Solid State Method Using Mixed Iron Sources	
W. Wang, Z. Zhang, D.W. Shi and X.Q. Liu The Characterization of CIGS Thin Films Prepared by Ion Beam Sputtering Deposition	2541
from a Quaternary Target C.M. Chen, P. Fan, G.X. Liang, Z.H. Zheng, D.P. Zhang and J. Zhao	2545
The Laboratory Evaluation of Several Polymer Solution Performances J.Z. Sun, C.B. Wang, L. Kan and Z.H. Wang	2549
The Synthesis and Crystal Structure of a New 1-D Co (II) Complex Based on Boronic Acid	23 17
Ligand S.D. Zhu, X.Q. Lai and Y.B. Lu	2553
Chapter 10: Engineering Materials and Processing Technologies	
Thermoelectric Characterization of Direct Current Magnetron Co-Sputtering Zinc Antimonide Thin Films	
Y.Z. Li, P. Fan, Z.H. Zheng, P.J. Liu, Q.Y. Lin and J.T. Luo	2559
Transformation Behaviors of U(VI) on Irons Hydroxide Colloids Y.P. Tan, X.W. Zhang, J.W. Lv, D.S. Tang and Q. Su	2563
VO ₂ Thin Films Deposited on ZnO Buffer Layer J.W. Ma, Y.R. Song, G. Xu and L. Miao	2568
Working Pressure Dependence of Structure and Optical Performance of Zinc Oxide Thin Films by Magnetron Sputtering S.B. Chen and Z.Y. Zhong	2572
Prepared for Potassium Sulfate of the Orthogonal Test in K-Feldspar-Phosphogypsum-Coke System	2576
C.Q. Yang, J.P. Xia and Y.M. Wang	2576
Chapter 11: Equipment Design, Manufacturing, Automation and Control	
Modeling and Application of Coal Pulverizing System for Coal-Fired Power Plant T. Yu and J.Q. Yuan	2587
The Improvement of the Circuit of Low Power in Yellow River Diversion Project H.P. Li, T. Lv and F.C. Ma	2592
Experimental Studies on Transmission Characterization of Stratified Earth Channel in Through-the-Earth Communications with Elastic Wave J.J. Hao, H.L. Pang and H. Li	2598
Testing Apparatus Design of High-Concentration Slurry Transport in Environment-	2000
Friendly Dredging	2603
Friendly Dredging T. Xiong, S.D. Fan and H.H. Zhu	2609
Friendly Dredging	2009
Friendly Dredging T. Xiong, S.D. Fan and H.H. Zhu A Telemetry and Telecontrol Universal Simulator	2613
Friendly Dredging T. Xiong, S.D. Fan and H.H. Zhu A Telemetry and Telecontrol Universal Simulator J.J. Zhou, J.C. Cai, X.F. Wang and X. Wang Automation Control Method of Time-Varying in Heat Conduction Coefficient and Pure Steam Output Interference H.T. Ma, Jirigalantu and Y. Yu The Extraction and Identification of Target Infrared Image Signature Based on Instantaneous Polarization	
Friendly Dredging T. Xiong, S.D. Fan and H.H. Zhu A Telemetry and Telecontrol Universal Simulator J.J. Zhou, J.C. Cai, X.F. Wang and X. Wang Automation Control Method of Time-Varying in Heat Conduction Coefficient and Pure Steam Output Interference H.T. Ma, Jirigalantu and Y. Yu The Extraction and Identification of Target Infrared Image Signature Based on Instantaneous Polarization Z.H. Li, G. Li and K.S. Wan UM2000 Spectrum Estimation Using Multiple Signal Classification Method	2613
Friendly Dredging T. Xiong, S.D. Fan and H.H. Zhu A Telemetry and Telecontrol Universal Simulator J.J. Zhou, J.C. Cai, X.F. Wang and X. Wang Automation Control Method of Time-Varying in Heat Conduction Coefficient and Pure Steam Output Interference H.T. Ma, Jirigalantu and Y. Yu The Extraction and Identification of Target Infrared Image Signature Based on Instantaneous Polarization Z.H. Li, G. Li and K.S. Wan	2613 2618

Algorithm Study of the Models Merge Based on Delaunay Triangulation S.H. Liu, J. Tang, H.Q. Ji, K.Y. Xiao and J.H. Zhang	2634
Analysis of Variable Section Piezoelectric Harvester Y. Zhou and S. Li	2638
Automated Design of Mechanical System for Generating Alternate Mechanism Concepts L.P. Zhang, Z.Y. Jin, G.B. Pang and M.J. Zhou	2642
Multiparametric Monitoring of Rotating Parts of Mechanical Devices M. Rimár and M. Valko	2646
New Construction Machinery Developed in Ultra-Deep High Pressure Jet Grouting Pile C.L. Wang, S.Q. Sun, J.Z. Xia, B. Qian, Y.S. Li, Z.X. Wang and C.X. Ni	2650
Optimization Design of the Odometer Gear Pair Y.X. Li, W.Q. Shen, Y.J. Zhao and X.Y. Hu	2655
Permafrost Hazard of MoHe-DaQing Crude Oil Pipeline Y.B. Ma, D.J. Tan, H.Y. Jing, Q. Xue and C.Z. Zhang	2659
Research and Development of Gravitation Electro-Galvanizing Testing Apparatus X.R. Zhang, K.Y. Yan, Y.C. Chen, T.Z. Zhang and D.B. Huan	2664
Research of Mine Ventilation Parameters Tester Based on ZigBee Technology H. Ma and X.Z. Huang	2672
Research on the 6DOF Robot Simulation and Modeling Z.Y. Liu and J. You	2676
Study and Development on Safety Operation of Marine Pump Z.X. Lu	2681
Study on Assembly Design Approach Based on Synchronous Modeling Technology B. Hua, X.J. Wang, X.C. Liu, Y.S. Luo and Y.F. Ding	2685
The Analysis on Influence of Test Error of Voltage Transformer Primary Test Circuit Causes on GIS and the Improvement of Test Method Z.L. Zhang and H. Su	2689
The Designment of Double-Roll Cake Breaker K.Q. Yu	2694
The Fuel Consumption of the Integrated Piston-Plunger Pump Z.Q. Dai, T.Z. Zhang and M.L. Wan	2699
The Programming Model about Petroleum Pipeline W.B. Liu	2704
An Automatic Light Communication System for Vessel H. Zhang and M. Liu	2708
Fault Diagnosis System of Large Wind-Driven Generator Based on Virtual Instrument W.Z. Yang, H.G. Tan and Z.B. Feng	2712
Kinematics Analysis of the Eccentric Swing Paper Transfer Mechanism L.Y. Su	2717
Study on the Shift Schedule Based on Driver Type of Automatic Mechanical Transmission P. Han, X.S. Cheng, Y.S. Wang and X. Liu	2721
Automotive Interior Parts Molding Process Simulation and Parameter Optimization Y.W. Tan, Y.M. Wang, G. Zhou and X.Y. Du	2725
PHD Filter for Multi-Radar Multi-Target Tracking S.R. Tian, X.S. Sun and X.J. Sun	2730
A Review on the Development of High Pressure Roller Mill Q.F. Xiao, B. Li, C.M. Luo and F.K. Yan	2734
Transform Three Mechanical Stepless Simulation Darkening Welding Helmet Design J.B. Xiao, X.L. Xie and H. Zhang	2738
Civil Unmanned Aircraft System Maintenance Structure L.L. Wang and Z.W. Wu	2742
Design and Research of Environmentally Compound Deicing Techniques J.Z. Zhou, X.P. Xu, W.J. Chu, J.Y. Dai, Y.H. Chen, Z.C. Zhu and S.W. Lai	2746
Engine Hood Lightweight Optimization Design Based on Overall Satisfaction G.F. Zhao, Y. Li and M.M. Liu	2752
Evaluation on Parallel Assembly Sequence J.Y. Zhang, L.N. Zhao, Y.P. Hao and Y. Liu	2757

Key Component Design of Environment-Friendly Jujube Takes Core Machine Q. Shan and Y. Chen	2761
Proposing a Revised Definition of Perpetual Motion Machine Y.H. Shyu	2765
Research on Green Manufacturing-Oriented Packaging Design Technology W. Xu and Z.M. Liu	2770
Research on Micro-Heater Based on Pt-100 J.N. Jiang, F. Zhang, B.X. Liu, T.F. Zheng and C.H. Wang	2774
Study of Computer Aided Process Planning Base on B/S Structure J.G. Wang, X.H. Wan, Y.H. Wan and J.L. Shi	2778
Study on Bolt (Cable) Supporting Design Method Based on Tunnel Fall Hidden Dangers Classification	
Q.X. Zhang, H.S. Jia, H. Zhang, Y. Wang and M.S. Yu	2782
Study on Redundant Constraint in Mechanism Design P. Lu	2788
Study on Structure Optimization of Multi-Wavelength Brillouin-Erbium Doped Fiber Laser X.F. Zhou and S. Yuan	2792
The Galloping Parameters Study of Ice-Coating Transmission Line L. Liu, Y.X. Di, K.J. Zhu, X.M. Li and C.L. Liu	2796
The Progress of Finite Element Analysis on Internal Combustion Engine Cylinder Head Assembly	
B.X. Liu and P. Sun	2802
Deployment of Wireless Sensor Network for Gas Leak Monitoring M.W. Wang, Y. Wang and W.Q. Guo	2807
Design of Outdoor Vehicles Computer Dispatch System Based on GPS S.W. Huang, D.L. Wen and F. Jin	2811
Moving Vehicle Detection of Airborne Video on SURF H. Liu, C.X. Gao, X.H. Ding and Z. Zeng	2815
Research on Direct Wave Separation of PD Ultrasonic Signal Based on ICA S.S. Hou, Q. Xie, L.X. Shi and W.T. Hu	2819
The Design on Temperature Monitoring System for Traditional Fermentation Process Based on WiFi	
Y. Zhang, T.S. Zhang, H.G. Wu, M.Y. Duan, Y.S. Zhang and S.K. Lu	2824
Chapter 12: Information Technologies, Computer and Data Analysis Applications in Industry and Engineering	
Aluminum Reduction Cell's Fault Monitoring Based on LS-SVM S.P. Wang, Y.J. Song and H. Wang	2833
Based on the AVR Micro Controller's Serial Communication Protocol Implementation B.H. Jiang, F.B. Liu, H. Liu, L. Song and R. Song	2838
An Application of Rectilinear Embedding in VLSI Placement L.Y. Pan and Y.P. Liu	2842
Substation Inspection System Based on RFID Technology H.B. Xu, J.H. Liu and X. Jia	2846
Numerical Study of Koyna Dam Failure Process Using Extended Finite Element Method C. Fan and X.Q. Jing	2851
A Algorithm of Three-Dimensional Human Face Pose Correction Based on the Normal Vector Alignment	
D.W. Zhang A Design and Development of Changeing Emergency Warning Information Paleosing	2855
A Design and Development of Chongqing Emergency Warning Information Releasing Software B.C. Xia, F.H. Min and C.S. Gai	2859
A MapReduce Telecommunication Data Center Analysis Model W.C. Yang, J.Y. Wang and H.Y. Zeng	2863
A Matching Theorem in GFC-Spaces with Application to Saddle Points K.T. Wen and H.R. Li	2867

A New Automatic Modulation Classifier Using Swarm Intelligence-Trained Neural Network L. Cheng and J. Liu	2871
A New Particle Swarm Algorithm for Solving Constrained Optimization Problems T.B. Wu, Y. Cheng, Y.L. Liu, T.Y. Zhou and X.J. Li	2875
A New Type of Deaf-Mute Sign Language Recognition System Based on the Mobile Communciation Platform and Terminal Equipment	2880
S.N. Zhao, M.R. Wang and Z. Wei A Novel Approach on Automatic Building of Word Correlation Net Based on Statistic C. Yang, H. Zhang, X.G. Zhou and Y. Wang	2887
A Preprocessing Algorithm of Corn Infrared Spectrum Based on MSC and DOSC J. Zhao, J.M. He, X. Chen, X.Q. Zhu, J.J. Wu and G.T. He	2893
A Review of TFT-LCD Panel Defect Detection Methods C.X. Jian, J. Gao and X. Chen	2898
A Routing Protocol for Solar Energy Harvesting Wireless Sensor Networks H.P. Li, L.T. Zhang and S.B. He	2903
An AFC System of Digital Scenic Areas Based on Decision Tree Classification M. Wan, Z.F. Ying and J.J. Wu	2907
An Image Segmentation Method Based on Adaptability Threshold H. Li and P. He	2912
Analysis on the Target Distribution Equivalent of the Anti-Ship Missile F.X. Lu, S.K. Liu and B.W. Zhao	2917
Application of BP Neural Network in Coalmine Safety Management Performance Evaluation	2025
Y.J. Liu, Z.C. Tian and D.M. Huang Application of Improved LMD in Gear Fault Diagnosis	2925
R.J. Teng, X.J. Zhou, C.L. Yang and Z. Li Approximate Processing Method of Random One Direction Singular Rough Sets	2930
Z.L. Guo Approximation of Missing Values for Classification and Regression	2934
Y.J. Su, Z. Zhong and W.J. Li Data Acquisition System Connect to CMG-3T Low-Frequency Seismic Pendulum	2938
T.T. Liu, Y. Wu and J. Lin Detection of External Defects in Steel Wire Rope Based on Image Processing	2945
H.J. Dong, X.M. Jiang, K. Kang and Y.H. Kong EMLDC: An Efficient Method of Long Data Communication for the L4 Microkernel-Based	2949
Virtual Machines G.H. Cheng and L. Li	2953
Graph Traversal Dynamic Demonstration System Design and Implementation B.Z. Chen and X.B. Yang	2959
Ground Target Tracking Using Aerial Images X.J. Hu, H.Y. Wang and Z.S. Shi	2964
Improved Fingerprint Recognition Algorithm Application Study on Smart Home S.Q. Chen, Y.L. Fu and M.Y. Yin	2970
Labelling Properties of Special Models Related with Networks X.S. Liu, Y.Y. Liu, B. Yao and Y. Gou	2974
Multi-Classification Combination Algorithm Based on Logit Model and Support Vector Machine X.L. Zhang, M.G. Li and Z.Q. Zhang	2978
Research on Foreign Body Detection for Granular Material Based on Feature Weighted OCSVM of Color Recognition	• • • • •
J.M. Zhou, Z. Zhang and Y.L. Xiang Research on Jiangxi Tourism E-Commerce Platform Construction	2983
Z.Y. Zeng and X.Y. Ye Research on Session Replication Schemes	2990
P.P. Liu Research on SVM Cell Concentration Prediction of Erythromycin Fermentation Process	2994
Based on Ant Colony Optimization L. Tian, Q.Q. Wang and A.Z. Cao	2998

Serial Communication Based on LabVIEW for the Development of an ECG Monitor B. Yang, Y. Guo, Z.D. Wang and Y. Gao	3003
Solutions for a Class of Elliptic Equation Z.H. Xiu	3007
Study of Scale-Down Method for Dense Grid Points	3007
S.Y. Yu, C.H. Song and H.Y. Xu	3011
Study of Sensor of Electrical Capacitance Tomography (ECT) System Based on COMSOL H.Y. Cao, X.M. Duan and H.X. Wang	3016
Teleportation of an Unknown Three-Particle Entangled State via a Cluster State L.Z. Yu	3022
The Implementation of Visualization Software of the Rapid 3D Apparent Physical	
Properties Inversion Method H.X. Li, H.L. Yu and P.C. Zhang	3026
Three Jiaohe Coal Mine Safety Information Management System Design Scheme S.Z. Li and H. Huang	3030
Venture to Achieve Automated Mapping with ArcGIS-Based MESIS F.H. Min, C.S. Gai and B.C. Xia	3034
An Enhanced Cross-Layer MAC Design for Energy Efficiency in Wireless Sensor Networks G.Y. Yang and X. Guan	3038
A Comparative Analysis of Shipping Emissions Estimation Methodologies and their	
Applicability W. Xiao and Q.Q. Wei	3042
A Fault-Tolerant Data Center Network Structure P. Wang, Y. Lv and Y. Tan	3048
A Gesture Recognition Algorithm Based on PCA and BP Neural Network H.Y. Li, J.J. Chen, X. Li and D. Zhao	3053
A New Piecewise Rational Reparameterization Method F.H. Guo	3057
A Novel Algorithm for Classifying Measuring Curves Based on Interval Estimation D. Zhao, Y. Fu, C.J. Wang and H.Y. Li	3061
A Procedure to Evaluate the Indoor Global Quality by a Sub Objective-Objective	
Procedure V. Franzitta, A. Milone, D. Milone, M. Trapanese and A. Viola	3065
A Target Selection Algorithm of Seeker Based on the Prior Information and SVM G.D. Zhang and Z. Liu	3071
Algorithm for Imaging Sonar Target Detection based on Geometry Characteristic and SVM Z. Liu, K. Li and B. Yan	3075
An Anhydrous Bridge Recognition Algorithm in Aerial Image Y.W. Dong, L. Wan, Z.M. Shi and J.X. An	3079
An Automatic Cloud Service Platform for Learning from Large-Scale Data L. Xiong and H.Q. Tong	3085
Application of the Technology of Multi-Source Information Fusion in Industrial Monitoring	3003
and Fault Diagnosis X.Q. Liu, X.T. Chong and C.G. Zhen	3089
Application Research of Improved Ant Colony Algorithm in Hybrid Mobile Agent Routing L.H. Zhang, S.Q. Chen and G.Z. Bai	3093
Approximating Nash Equilibrium Using Genetic Algorithm C.B. Li and H.Y. Cao	3098
Boundary Variable Precision Dominance-Based Rough Set Approach in Multicriteria	
Sorting Problems H. Li, G.Y. Wang, G.L. Gou and W. Liu	3102
Clustering Routing Protocol Based on Base Station Authentication with TLEACH in WSN P. Li and L. Ning	3107
Design and Implementation of Operation Limited Linear List Visualization Demo System X.B. Yang and B.Z. Chen	3114
Development of Digital Vehicle Information Terminal Hardware System K. Zhang, L.Y. Fan, Y. Tian and N. Li	3119

Fuzzy AHP-Based Algorithm for Performance Evaluation of New Socialist Countryside in Northwest Minority Regions of China C.J. Yang and H.Y. Ma	3124
Hybrid File System - A Strategy for the Optimization of File System	3124
Y.R. Wang, P.R. Wang and R. Liu	3129
Mathematical Constraints Representation for Bottom-Up Approaches to Climate Policy Modeling H.G. Kim, Y.J. Chung and C.H. Paik	3133
Mathematical Models for 3D Reconstruction Using Surface Triangulation L.Y. Pan and Y.P. Liu	3137
Monte Carlo Simulation on Conformation Properties of Polymer Multiple Chain System L.L. Cui and H.N. Guan	3141
Nonlinear Analysis of Drivers Heart Rate Variability on the Prairie Highway H.T. Li, S.L. Zhu, C.H. Qi, M.X. Gao and G.Z. Wang	3145
Pheromone-Based Ant Colony Algorithm for Optimal Proliferation of Research L.L. Deng	3152
Preliminary Study on Digital Signature Technology and Application L.H. Huang and X.Q. Zhang	3158
Realization of the Multi-Factor Combined Information Value Model in the Spatial Prediction of Landslides Y.F. Chen and X.L. Cao	3163
Research on Security Strategies of Digital Library Based on Cloud Computing Platform K. Tang	3171
Research on the Mapping Rules of Complex Inheritance Relationship from CIM to the Logic Model	23,3
D. Wang, S.Z. Zhao, X.X. Hu, Y.X. Liu and J.K. Zhao	3175
Research on Various Algorithms in Asynchronous Network Communication System Y. Liu and J.H. Wu Polynot Value of Filtering for Descriptor Systems with Unstandard Unscription	3180
Robust Kalman Filtering for Descriptor Systems with Unstructured Uncertainties S.F. Wang and Y. Shi	3186
Smart Detection Technology of Serial Arc-Fault on Low Voltage Power Lines C.J. Wu, C.H. Hung and Y.W. Liu	3190
Structure and Analysis of Certificateless Proxy Blind Signature Scheme without Bilinear Pairing Y. Wang	3194
Studies on Key Problems of Wavelet Transform of Face Recognition	
L. Tang and X.W. Li Studies on the Secure Routing Protocols of Mobile AD Hoc Networks	3199
Z.C. Cai	3203
Study on Distributed Architecture, Information Integration and Access Control of Manufacturing Execution System	
L. Liu, G.R. Yan and Y. Lei	3207
Study on Location Based Services Driven Mobile E-Commerce System H.D. Zhong, P. Li, S.Z. Zhang, W.T. Yuan, X.D. Zhao and J.W. Shen	3214
The Design of the Logistics Information Sharing Platform Based on Cloud Computing Y.B. Jiao	3220
The Properties of Analogous to Dedekind Sums M.S. Yang	3224
The Research and Implementation of an Electronic Seal System Based on CAPICOM M.H. Xiao, J. Tan and L.K. Zhuang	3228
The Research of Covariance Matrix by the Nature of Bilinear Function Y.L. Zhu and T.L. Tan	3234
RETRACTED: The Realization of Communication between AB SLC500 and Profibus-DP Network	
L.R. Zou, Y.Z. Yang, Z.G. Shi and N. Huang	3238
A Composite Pulse Modulated Signal Compression and DSP Implementation B.C. Yu, Z.H. Yin, Y. Yang and Z.F. Wang	3244

Performance Analysis of Radar Pulse Compression Signals Z.H. Yin, B.C. Yu, Z.F. Wang and Y. Yang	3248
Vehicle License Plate Location Based on High Frequency Vertical Edge and Mathematical Morphology	
Y. Yang, Z.F. Wang, B.C. Yu and Z.H. Yin	3252
Chapter 13: Engingeering Management, Logistics and Education	
Research on Diffusion of Warning Based on Multi-Agent Modeling J.J. Wang, Y.F. Deng and Z.A. Jiang	3259
Research on Integrated Fire Danger Index Application Based on Ignition and Fire B.H. Huang, Z.J. Sun, L.X. Zhou and Y.Q. Ma	3264
Research on Risk Management in Urban Subway Construction Y.T. Ma and C.J. Ma	3271
Assessment of the Influence of Binhai Lng Project on Regional Economic Development in Jiangsu Province L.C. Zhang and T.M. Zhu	3275
Study on the Forecast of the Economic Loss in Storm Surge Disaster Based on Fourier Series - A Case Study of China L.D. Zhao and Y.R. Hao	3280
Research on Scientific and Technological Innovations Promoting on the New Round Economic Structure Adjustment of Liaoning H. Zou, W.J. Zeng and J. Liu	3286
Study on the Tourism Value Evaluation of the Urban Industrial Heritage on the Basis of Matter-Element Model Z.L. Xu, J.Q. Shen, B. Liu, L. Tang and F. Wang	3290
SWOT Analysis and Countermeasures Research on the Development of Turpan Sand- Therapy Tourism Resources X.X. Tian, J.M. Liu and M. Yan	3295
An Estimation Method of Time-Varying Beta in Price Limiting Mechanism R.Q. Bai, M.G. Li and Z.Q. Zhang	3302
Brief Discussion of Comtemporary College Student's Network Security Education Issues J. Yang	3308
Education of Low Carbon and Cultivation of Social Responsibility S.Y. Xiong, Z.X. Zhang, C.C. Huang and M.Q. Qiu	3312
Research on Seaport Cluster Strategy of Qingdao Ports Based on SWOT Analysis S.L. Han, Y.Y. Wang, X.F. Liu and Y.W. Wu	3316
The Method Research of Production Enterprise Logistics System Integration K. Wang	3320
A Brief Analysis of Global Rare Earth Trade Structure Y. Li, A.J. Wang, J.W. Li and Q.S. Chen	3324
Compound Option Pricing Model Applied in Overseas Mineral Investment H. Luo and W.J. Yue	3332
The Study of the Relationship between Natural Resource Abundance and Economic Growth Z.B. Li, H.J. Deng and A.S. Cheng	3337
The Evolution of the Investment Environment Field: A Content Analysis of 12 Years of Investment Environment Research Papers B. He, H.Z. An, H.L. Zhang and X.T. Luo	3342
Developing of Organisational Culture as a Presumption of Industrial Enterprise Performance Optimization M. Čambál, D. Cagáňová, D.R. Delgado Sobrino and P. Košťál	3348
Engineering Management on Modeling of Environmental Protection H.C. Hsu and W.S. Fan	3352
Research on Cultivation Model for Logistics Talents of Universities in Ningbo: A Case Study of Zhejiang Wangli University X.J. Zhong, P. Li and J. Yin	3356

Study on Evaluation Method of Corporate Social Responsibility Based on Fuzzy Consistent	
Matrix L. Tang, J.Q. Shen and B. Liu	3362
Study on Measurement Method for Flexible Management Effect of Project Schedule under Construction Supply Chain Mode B. Liu, J.Q. Shen, F. Tan, D.W. Wang, L. Tang and S.F. Yan	3366
The Governmental Supervision Responsibility and Standardization Construction of Construction Quality H.D. Guo, S.W. Cui, Y.X. Zhang, E.H. Hao and X.P. Yang	3370
The Impact of Technological Regimes on the Establishment of Technological Standards Y.Q. Mei, X.Y. Peng and Y. Cui	3376
Undergraduates' Innovation Ability Training Based on Scientific Research Base T.T. Yang, S.Y. Hao, L. Wu and Y. Gu	3382