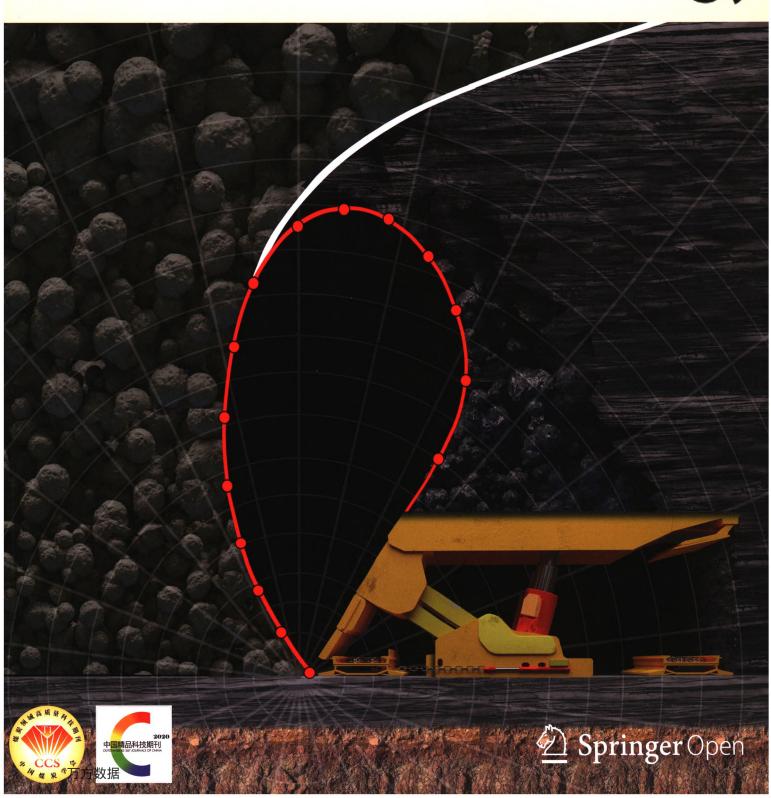
ISSN 2095-8293 CN 10-1252/TD

国际煤炭科学技术学报(英文)

International Journal of QK2203883

Coal Science & Technology



International Journal of Coal Science & Technology

Volume 8 · Number 6 · December 2021

REVIEW

1171 Drawing mechanisms for top coal in longwall top coal caving (LTCC): A review of two decades of literature J. Wang · S. Yang · W. Wei · J. Zhang · Z. Song

RESEARCH ARTICLES

- 1197 The view of technological innovation in coal industry under the vision of carbon neutralization
- 1208 Projecting the global impact of fossil fuel production from the Former Soviet Union S. Mohr · J. Wang · J. Ward · D. Giurco
- 1227 An analysis of contributing mining factors in coal workers' pneumoconiosis prevalence in the United States coal mines, 1986-2018 Y. Shekarian · E. Rahimi · N. Shekarian · M. Rezaee · P. Roghanchi
- 1238 Numerical simulation of flooding induced uplift for abandoned coal mines: simulation schemes and parameter sensitivity J. Zhao · H. Konietzky · M. Herbst · R. Morgenstern
- 1250 Experimental study on the adverse effect of gel fracturing fluid on gas sorption behavior for Illinois coal Q. Huang · J. Li · S. Liu · G. Wang
- 1262 Distribution and modes of occurrence of uranium in coals of Eastern Yunnan, China X. Wang · Q. Feng · Q. Meng · F. Liu · Q. Cao · G. Liu
- 1272 Life cycle assessment of opencast lignite mining L. Lelek · J. Kulczycka
- 1288 Characteristic strength and acoustic emission properties of weakly cemented sandstone at different depths under uniaxial compression B. Liu · Y. Zhao · C. Zhang · J. Zhou · Y. Li · Z. Sun
- 1302 Compound-mode crack propagation law of PMMA semicircular-arch roadway specimens under impact loading

C. Li · D. Guo · Y. Zhang · C. An

1316 In situ stress measurement and analysis of the stress accumulation levels in coal mines in the northern Ordos Basin, China

D. Yang · Z. Ning · Y. Li · Z. Lv · Y. Qiao

- 1336 Controlling mine pressure by subjecting high-level hard rock strata to ground fracturing R. Gao · T. Kuang · Y. Zhang · W. Zhang · C. Quan
- 1351 Stress and deformation analysis of gob-side pre-backfill driving procedure of longwall mining: a case study

R. Wu · P. Zhang · P.H.S.W. Kulatilake · H. Luo · Q. He

Contents continued on inside back cover

ISSN 2095-8293

CODEN IJCSQT

In China: RMB ¥ 58.00 Other regions: US \$ 60.00

Contents continued from back cover

1371 Numerical simulation of coal wall cutting and lump coal formation in a fully mechanized mining face

Y. Yuan · S. Wang · W. Wang · C. Zhu

1384 Influence of anchorage length and pretension on the working resistance of rock bolt based on its tensile characteristics

J. Chang · K. He · D. Pang · D. Li · C. Li · B. Sun

1400 Method for designing the optimal sealing depth in methane drainage boreholes to realize efficient drainage

M. Yi · L. Wang · C. Hao · Q. Liu · Z. Wang

1411 Influence of deep magma-induced thermal effects on the regional gas outburst risk of coal seams

J. Linghu · W. Zhao · J. Zhou · Z. Yan · K. Wang · C. Xu · C. Sun

1423 Mechanical criterion for coal and gas outburst: a perspective from multiphysics coupling

T. Liu · B. Lin · X. Fu · A. Liu

1436 Modeling metallurgical responses of coal Tri-Flo separators by a novel BNN: a "Conscious-Lab" development

M. Alidokht · S. Yazdani · E. Hadavandi · S. Chehreh Chelgani

1447 An exsitu underground coal gasification experiment with a siderite interlayer: course of the process, production gas, temperatures and energy efficiency

M. Wiatowski · K. Kapusta · J. Nowak · M. Szyja · W. Basa

1461 Composition of phenolic compounds in wastewater from the fixed-bed gasification of Baishihu coal

Y. Zhao

1468 Flexibility analysis and design of heat exchanger network for syngas-to-methanol process

J. Liu · P. Zhang · Q. Xie · D. Liang · L. Bai

1479 Coal-derived humic acid for application in acid mine drainage (AMD) water treatment and electrochemical devices

T. Das · M. Bora · J. Tamuly · S.M. Benoy · B.P. Baruah · P. Saikia · B.K. Saikia

1491 Characteristics of water contamination in abandoned coal mines: a case study on Yudong River area, Kaili, Guizhou Province, China

X. Li \cdot J. Cai \cdot D. Chen \cdot Q. Feng

1504 Insights from principal component analysis applied to Py-GCMS study of Indian coals and their solvent extracted clean coal products

A. Roy · H. Dhawan · S. Upadhyayula · H. Kodamana

Further articles can be found at link.springer.com

Instructions for Authors for Int J Coal Sci Technol are available at www.springer.com/40789

International Journal of Coal Science & Technology

Volume 8 · Number 6 · December 2021

REVIEW

1171 Drawing mechanisms for top coal in longwall top coal caving (LTCC): A review of two decades of literature J. Wang · S. Yang · W. Wei · J. Zhang · Z. Song

RESEARCH ARTICLES

- 1197 The view of technological innovation in coal industry under the vision of carbon neutralization
- 1208 Projecting the global impact of fossil fuel production from the Former Soviet Union S. Mohr · J. Wang · J. Ward · D. Giurco
- 1227 An analysis of contributing mining factors in coal workers' pneumoconiosis prevalence in the United States coal mines, 1986-2018 Y. Shekarian · E. Rahimi · N. Shekarian · M. Rezaee · P. Roghanchi
- 1238 Numerical simulation of flooding induced uplift for abandoned coal mines: simulation schemes and parameter sensitivity J. Zhao · H. Konietzky · M. Herbst · R. Morgenstern
- 1250 Experimental study on the adverse effect of gel fracturing fluid on gas sorption behavior for Illinois coal Q. Huang · J. Li · S. Liu · G. Wang
- 1262 Distribution and modes of occurrence of uranium in coals of Eastern Yunnan, China X. Wang · Q. Feng · Q. Meng · F. Liu · Q. Cao · G. Liu
- 1272 Life cycle assessment of opencast lignite mining L. Lelek · J. Kulczycka
- 1288 Characteristic strength and acoustic emission properties of weakly cemented sandstone at different depths under uniaxial compression B. Liu · Y. Zhao · C. Zhang · J. Zhou · Y. Li · Z. Sun
- 1302 Compound-mode crack propagation law of PMMA semicircular-arch roadway specimens under impact loading

C. Li · D. Guo · Y. Zhang · C. An

1316 In situ stress measurement and analysis of the stress accumulation levels in coal mines in the northern Ordos Basin, China

D. Yang · Z. Ning · Y. Li · Z. Lv · Y. Qiao

- 1336 Controlling mine pressure by subjecting high-level hard rock strata to ground fracturing R. Gao · T. Kuang · Y. Zhang · W. Zhang · C. Quan
- 1351 Stress and deformation analysis of gob-side pre-backfill driving procedure of longwall mining: a case study

R. Wu · P. Zhang · P.H.S.W. Kulatilake · H. Luo · Q. He

Contents continued on inside back cover

ISSN 2095-8293

CODEN IJCSQT

In China: RMB ¥ 58.00 Other regions: US \$ 60.00