

INDONESIAN MINING JOURNAL

Volume 21 Number 2, October 2018

pISSN 0854-9931

eISSN 2527-8797

Accreditation No : 21/E/KPT/2018

-
- ❖ Cement Material Development Used for Cementing Underground Coal Gasification Well
Pengembangan Semen untuk Penyemenan Sumur Gasifikasi Batubara Bawah Tanah 77 - 88
Mifathul Huda

 - ❖ Parameters That Affect the Dissolution of Indonesian Galena Concentrate in Fluorosilicic Acid and Hydrogen Peroxide
Parameter-parameter yang Memengaruhi Pelarutan Konsentrat Galena Indonesia dalam Larutan Asam Fluorosilikat dan Hidrogen Peroksida 89 - 97
Rezky I. Anugrah, Dessy Amalia and M. Zaki Mubarak

 - ❖ The Natures of Zinc Sulfide Concentrates and Its Behavior After Roasting Process
Karakter Konsentrat Seng Sulfida dan Perubahannya Setelah Proses Pemanggangan 99 - 112
Dessy Amalia, Tatang Wahyudi and Yuhelda Dahlan

 - ❖ Rare Earth Elements Enrichment of Fixed-Bed Coal Ash from A Pilot Plant Gasification by Physical Methods
Peningkatan Kandungan Logam Tanah Jarang (LTJ) Abu Batubara Sistem Unggun Diam Skala Pilot Plant Menggunakan Metode Secara Fisik 113 - 125
Suganal

 - ❖ Evaluation of Combustion Behaviour for Indonesian Low-Rank Coal Treated Hydrothermally
Evaluasi Perilaku Pembakaran Batubara Peringkat Rendah Indonesia yang Telah Diproses Secara Hidrotermal 127 - 139
Datin F. Umar, Mikio Shimojo and R. M. Nendaryono Madiutomo

 - ❖ Study on Environmental Quality and Hazard Identification of Underground Coal Gasification Project: A Literature Study and Field Survey
Kajian Kualitas dan Identifikasi Bahaya Lingkungan Pengembangan Gasifikasi Batubara Bawah Tanah: Tinjauan Literatur dan Survei di Lapangan 141 - 161
Retno Damayanti

INDONESIAN MINING JOURNAL

Jalan Jenderal Sudirman 623 Bandung 40211, Indonesia
Ph. (022) 6030483 Ext. 285, Fax. (022) 6003373

Indonesian Mining Journal (IMJ) is periodically published in April and October. The journal contains paper, which relates to research and development projects in mineral and coal, i.e. exploration, exploitation, processing, utilization, environment, economics and policy. The editors only accept papers that are relevant to the substance of this publication.

ADVISOR

Head of R&D Centre for Mineral and Coal Technology
Head of Affiliation and Information Division

Editor-in-Chief

Prof. Dr. Binarko Santoso, Ir.

EDITORIAL BOARDS

1. Prof. Dr. Binarko Santoso, Ir. (Mineral and Coal Geology)
2. Prof. Dr. Datin Fatia Umar, Ir., MT. (Chemical Engineering/Coal Processing and Utilization)
3. Sri Handayani, Dra., M.Sc. (Mineral Biotechnology)
4. Prof. Husaini, Ir., M.Sc. (Environmental Engineering)
5. Dr. Miftahul Huda, Ir., M.Sc. (Applied Chemical Technique/Coal Beneficiation Technology)
6. Tatang Wahyudi, Ir. M.Sc. (Geology/Process Mineralogy)
7. Dr. Agus Wahyudi (Mineral Processing)
8. Isyatun Rodliyah, S.T., M.Si. (Mineral Processing)
9. M. Ade A. Efendi, S.T., M.Eng. (Coal Beneficiation Technology)
10. Phiciato, Dipl.Ing. (Coal Beneficiation Technology)

SCIENTIFIC REVIEWERS

1. Prof. Dr. Binarko Santoso, Ir.
2. Sri Handayani, Dra., M.Sc.
3. Tatang Wahyudi, Ir. M.Sc.
4. Dr. Miftahul Huda, Ir., M.Sc.

PEER REVIEWERS

1. Prof. Dr. Syoni Supriyanto, M.Sc. (ITB - Mining Engineering)
2. Dr. Singgih Saptono, M.Sc. (UPN Veteran Yogyakarta - Mining Engineering)
3. Dr. Said Muzambiq, M.Sc. (ITM Medan - Mining Environment)
4. Dr. Phil.Nat. Sri Widodo, M.T. (UNHAS - Mining Design)
5. Dr. Nuzul Achyar (FE-UI - Economics)
6. Dr. Ir. Edi Sanwani (ITB - Mineral-Coal Processing)
7. Prof. Dr. Pramusanto, Ir. (Unisba - Extractive Metallurgy)
8. Prof. Dr. Ir. Udi Hartono (PSG - Petrology and Mineralogy)
9. Prof. Dr. Ir. Suroho (PSG - Mine Geology)
10. Dr. Hermes Panggabean, M.Sc. (PSG - Fossil Energy)
11. Dida Kusnida, Ir., M.Sc. (P3GL - Marine Geophysics)
12. Lukman Arifin, Drs., M.Si. (P3GL - Marine Geology)
13. Sri Widayati, Ir., M.T. (Unisba - Mineral Economics)
14. Dr. Asri Peni Wulandari, M.Sc. (UNPAD - Biotechnology)

15. Dr. D. Hendra Amijaya (UGM - Hydrocarbon Geochemistry and Coal Geology)
16. Dr. Sri Mulyaningsih, S.T., M.T. (IST AKPRIND Yogyakarta - Engineering Geology)
17. Dr. Muchlis, M.Sc. (IST AKPRIND Yogyakarta - Geological Environment)
18. Dr. Tri Nuke Pudjiastuti, M.A. (LIPI - Mining Environment/Mining Law)
19. Achmad Subardja Djakamihardja, Ir., M.Sc. (LIPI - Rock Geomechanics)
20. Prof. Dr. Ir. Adjat Sudradjat, M.Sc. (UNPAD - Mining Policy)
21. Dr. Ir. Ismi Handayani, MT. (ITB - Mineral Processing)
22. Dr. Nana Suwarna (IJOG - Coal Geology)
23. M. Ikhlusal Amal, Ph.D., M.Si., S.Si. (LIPI - Material Engineering)
24. Dr. Winarto Kurniawan (Tokyo Institute of Technology - Chemical Engineering)
25. Prof. Dr. Ir. Robert M. Delinom, M.Sc. (LIPI - Geotechnology)
26. Dr. Jacob Yan Mulyana (Tokyo Metropolitan University - Applied Chemistry)
27. Dr. Ir. Komang Anggayana, M.S. (ITB - Earht's Resources Exploration)
28. Muhammad Aziz, Dr.Eng. (Tokyo Institute of Technology - Energy System, Power Generation)
29. Prof. Dr. Siti Rochani, M.Sc. (tekMIRA - Chemistry/Material Science)
30. Zulfahmi, Ir., MT. (tekMIRA - Underground Mine)
31. Retno Damayanti, Dra., Dipl. EST. (tekMIRA - Chemistry/Mine Environment)
32. Eko Pujiyanto, Ir., M.E. (tekMIRA - Geotechnology)
33. Nendaryono Madiutomo, Ir., M.T. (tekMIRA - Mining Technology)
34. Ridwan Saleh, Drs. (tekMIRA - Mineral Economic)
35. Bambang Yunianto, Drs. (tekMIRA - Mining Policy)
36. Ghandi K. Hudaya, S.T. (tekMIRA - Techno-economy)
37. Asep B. Purnama (tekMIRA - Geology/Earth's Resources Exploration)
38. Dahlia Diniyati, S.T., M.Eng. (tekMIRA - Chemical Engineering/Coal Processing and Beneficiation)
39. Nurhadi, S.T., M.T. (tekMIRA - Coal Processing Technology)
40. Dessy Amalia, S.T., M.T. (tekMIRA - Mineral Processing)

The Indonesian Mining Journal would like to thank the peer reviewers for the reviewing the manuscripts to published in the Indonesian Mining Journal Vol. 21, No. 2, October 2018. Those are:

1. Dr. Winarto Kurniawan
2. Prof. Dr. Siti Rochani, M.Sc.



All articles published are embedded with DOI numbers that are affiliated with Crossref DOI prefix 10.30556

ACCREDITATION

Indonesian Mining Journal has been accredited as a scientific journal by the Director General of Research and Development Strengthening, Ministry of Research, Technology and Higher Education of the Republic of Indonesia (RISTEKDIKTI).
No. 21/E/KPT/2018
Valid until October 2020

BUSINESS AND ADMINISTRATION STAFF

Umar Antana, Hanny Fauziah, Sumaryadi,
Meitha Suciyaniti, and Bachtiar Efendi

PUBLISHER

R&D Centre for Mineral and Coal Technology

EDITOR ADDRESS

Jl. Jend. Sudirman 623 Bandung 40211
Telpon : (022) 6030483 - 5, Fax : (022) 6003373
e-mail : imjournal@gmail.com
Web : <http://jurnal.tekmira.esdm.go.id/index.php/imj>
DOI : [10.30556/imj](https://doi.org/10.30556/imj)

Disclaimer:

Opinions and statements expressed in IMJ are the author's responsibility