

INDONESIAN MINING JOURNAL

Volume 25 Number 2, October 2022

pISSN 0854-9931

eISSN 2527-8797

Accreditation No.: 200/M/KPT/2020

-
- ❖ Analysis of Explosive Energy Distribution at Pit 7 West PT. Makmur Mandiri Utama Binungan Suaran – Berau, East Kalimantan Province
Analisis Distribusi Energi Bahan Peledak di Pit 7 West PT. Bukit Makmur Mandiri Utama Binungan – Berau, Provinsi Kalimantan Timur
Mulya Gusman, Fellya S. Fauzi and Andree Octova 59 - 75

 - ❖ GIS Application for Monitoring the Mine Areas
Aplikasi GIS untuk Memantau Wilayah Tambang
Weningsulitri, Retno Damayanti, Tri W. Masduki, Jeani Sulistyowati, Muhammad Lutfi and Bagaraja Sirait 77 - 88

 - ❖ Develoment of Laterite Ore Processing and Its Applications
Perkembangan Pengolahan Bijih Laterit dan Aplikasinya
Fathan Bahfie, Azwar Manaf, Widi Astuti, Fajar Nurjaman Erik Prastyo and Ulin Herlina 89 - 104

 - ❖ Effect of CaCO_3 and Lime Glass Using to Pore Structure Forming on a Ceramic Glass Based on Scoria Basalt Rocks
Pengaruh Penggunaan CaCO_3 dan Lime Glass dalam Pembentukan Struktur Berpori pada Glass Ceramic Berbasis Batuan Basalt Skoria
David C. Birawidha, Yusup Hendronursito, Kusno Isnugroho, Muhammad Amin, Anton S. Handoko, Sentausa Nuringjati and Syafriadi 105 - 113

 - ❖ Characterization, Beneficiation, and REEs Extraction of Coal Bottom Ash
Karakterisasi, Benefisiasi, dan Ekstraksi Logam Tanah Jarang dari Abu Batubara Dasar
Isyatun Rodliyah, Siti Rochani, Sariman, Suganal, Datin F. Umar and Pramusanto 115 - 126

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

Tatang Wahyudi, Ir. M.Sc. (National Research and Innovation Agency)

MANAGING EDITOR

1. Deni Nurul Kamal, A.Md. (Center for Mineral and Coal Testing)
2. Sumaryadi, A.Md. (Center for Mineral and Coal Testing)

EDITORIAL BOARDS

1. Prof. Dr. Datin Fatia Umar, Ir., MT. (National Research and Innovation Agency - Chemical Engineering/Coal Processing and Utilization)
2. Retno Damayanti, Dra., Dipl. EST. (National Research and Innovation Agency - Chemistry/Mine Environment)
3. Sri Handayani, Dra., M.Sc. (National Research and Innovation Agency - Mineral Biotechnology)
4. Dr. Miftahul Huda, Ir., M.Sc. (National Research and Innovation Agency - Applied Chemical Technique/Coal Beneficiation Technology)
5. Dr. Agus Wahyudi (Testing Center for Mineral and Coal - Mineral Processing)
6. Isyatun Rodliyah, S.T., M.Si. (Testing Center for Mineral and Coal - Mineral Processing)
7. M. Ade A. Efendi, S.T., M.Eng. (Testing Center for Mineral and Coal - Coal Beneficiation Technology)
8. Phiciato, Dipl. Ing. (National Research and Innovation Agency - Coal Beneficiation Technology)
9. Prof. Hiroshi Suzuki (Kobe University - Mechanical Engineering)
10. Dr. Jacob Yan Mulyana (Tokyo Metropolitan University - Applied Chemistry)
11. Dr. Winarto Kurniawan (Tokyo Institute of Technology - Chemical Engineering)
12. Prof. Dr. Ir. Suroso (Centre for Geological Survey - Mine Geology)
13. Dr. Asri Peni Wulandari, M.Sc. (Padjadjaran University - Biotechnology)
14. Sunbaek Bang, Ph.D. (Mine Reclamation Corporation (MIRECO) - Environmental Engineering)
15. Nurhadi, S.T., M.T. (Testing Center for Mineral and Coal - Coal Processing Technology)
16. Hairunnisa, S.Si., M.Si. (Testing Center for Mineral and Coal - Biochemistry)

SCIENTIFIC REVIEWERS

1. Retno Damayanti, Dra., Dipl. EST.
2. Prof. Dr. Datin Fatia Umar, Ir., MT.
3. Dr. Agus Wahyudi
4. Isyatun Rodliyah, S.T., M.Si.
5. Hairunnisa, S.Si., M.Si.

PEER REVIEWERS

1. Prof. Dr. Syoni Supriyanto, M.Sc. (Institute of Technology Bandung - Mining Engineering)
2. Dr. Singgih Saptono, M.Sc. (University of National Development "Veteran" Yogyakarta - Mining Engineering)
3. Dr. Said Muzambiq, M.Sc. (Medan Institute of Technology - Mining Environment)
4. Dr. Phil. Nat. Sri Widodo, M.T. (Hasnuddin University - Mining Design)
5. Dr. Nuzul Achyar (University of Indonesia - Economics)
6. Dr. Ir. Edi Sanwani (Institute of Technology Bandung - Mineral-Coal Processing)
7. Prof. Dr. Pramusanto, Ir. (Bandung Islamic University - Extractive Metallurgy)
8. Prof. Dr. Ir. Udi Hartono (Centre for Geological Survey - Petrology and Mineralogy)
9. Dr. Hermes Panggabean, M.Sc. (Centre for Geological Survey - Fossil Energy)
10. Dida Kusnida, Ir., M.Sc. (Marine Geology Research and Development Center - Marine Geophysics)
11. Lukman Arifin, Drs., M.Si. (Marine Geology Research and Development Center - Marine Geology)
12. Sri Widayati, Ir., M.T. (Bandung Islamic University - Mineral Economics)
13. Dr. D. Hendra Amijaya (Gadjah Mada University - Hydrocarbon Geochemistry and Coal Geology)
14. Dr. Sri Mulyaningsih, S.T., M.T. (Institute of Science and Technology AKPRIND Yogyakarta - Engineering Geology)
15. Dr. Muchlis, M.Sc. (Institute of Science and Technology AKPRIND Yogyakarta - Geological Environment)
16. Dr. Tri Nuke Pudjiastuti, M.A. (Indonesian Science Institute (LIPI) - Mining Environment/Mining Law)
17. Achmad Subardja Djakamihardja, Ir., M.Sc. (Indonesian Science Institute (LIPI) - Rock Geomechanics)
18. Prof. Dr. Ir. Adjat Sudradjat, M.Sc. (Padjadjaran University - Mining Policy)
19. Dr. Ir. Ismi Handayani, MT. (Institute of Technology Bandung - Mineral Processing)
20. Dr. Nana Suwarna (IJOG - Coal Geology)
21. M. Ikhlusul Amal, Ph.D., M.Si., S.Si. (Indonesian Science Institute (LIPI) - Material Engineering)
22. Prof. Dr. Ir. Robert M. Delinom, M.Sc. (Indonesian Science Institute (LIPI) - Geotechnology)
23. Dr. Ir. Komang Anggayana, M.S. (Institute of Technology Bandung - Earth's Resources Exploration)
24. Muhammad Aziz, Dr. Eng. (Tokyo Institute of Technology - Energy System, Power Generation)
25. Dr. Ir. Reginawanti Hindersah, M.P. (Padjadjaran University - Biotechnology)
26. Andrieanto Nurrochman, M.Sc. (Bandung Islamic University - Material Science and Engineering)
27. Prof. Dr. Binarko Santoso, Ir. (Polytechnic of Geology and Mining - Geology)
28. Dr. Ir. Dudi Nasrudin Usman, S.T., M.T. (Bandung Islamic University - Mining Engineering)

29. Ir. Linda Pulungan, M.T. (Bandung Islamic University - Mineral and Coal Processing)
30. Dr. Edy Nursanto, S.T., M.T. (University of National Development "Veteran" Yogyakarta - Coal Processing)
31. Dr. Imas Soemaryani, S.E., M.Si. (Padjadjaran University - Economics)
32. Prof. Dr. Siti Rochani, M.Sc. (National Research and Innovation Agency - Chemistry/Material Science)
33. Zulfahmi, Ir., M.T. (National Research and Innovation Agency - Underground Mine)
34. Eko Pujiyanto, Ir., M.E. (Indonesian Geologists Association - Geotechnology)
35. Nendaryono Madiutomo, Ir., M.T. (National Research and Innovation Agency - Mining Technology)
36. Bambang Yunianto, Drs. (National Research and Innovation Agency - Mining Policy)
37. Ghandi K. Hudaya, S.T., M.A.B. (Center for Mineral and Coal Testing - Techno-economy)
38. Dr. Asep B. Purnama, S.T., M.T. (Center for Mineral and Coal Testing - Geology/Earth's Resources Exploration)
39. Dahlia Diniyati, S.T., M.Eng. (Center for Mineral and Coal Testing - Chemical Engineering/Coal Processing and Beneficiation)
40. Dessy Amalia, S.T., M.T. (National Research and Innovation Agency - Mineral Processing)

41. Hernandi Albeto Octaviano, S.T., M.E.M. (Directorate General of Mineral and Coal – Environmental Management)
42. Prof. Dr. Ir. Betty Natalie Fitriatin (Padjadjaran University – Soil Biology and Biotechnology)

The Indonesian Mining Journal would like to thanks the peer reviewers for the reviewing the manuscripts to published in the Indonesian Mining Journal Vol. 25, No. 2, October 2022. Those are:

1. Prof. Dr. Siti Rochani, M.Sc.
2. Dr. Ir. Dudi Nasrudin Usman, S.T., M.T.
3. Zulfahmi, Ir., M.T.
4. Dr. Asep B. Purnama, S.T., M.T.
5. Ir. Linda Pulungan, M.T.

COPY EDITOR

1. Sri Handayani, Dra., M.Sc.

LAYOUT EDITOR

1. Bachtiar Efendi (Center for Mineral and Coal Testing)
2. Ginanjar Aji Sudarsono, S.Kom. (Center for Mineral and Coal Testing)



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 (RISTEKDIKT).

No. 200/M/KPT/2020

Valid until October 2024

BUSINESS AND ADMINISTRATION STAFF

Deni Nurul Kamal, Sumaryadi, Wulandari Surono, Hasniati Astika, Bachtiar Effendi and Ginanjar Aji Sudarsono

PUBLISHER

Center for Mineral and Coal Testing

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