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Research Areas

Ore-Dressing, Chemical-Biological Winning Techniques and Mineral Processing

Academic Titles / Tasks

Assistant Professor, Suleyman Demirel University, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2020 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Biotechnological Avenues in Mineral Processing: Fundamentals, Applications and Advances in Bioleaching and Bio-beneficiation**
MISHRA S., PANDA S., Akcil A., Dembele S.
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, 2022 (Journal Indexed in SCI)
- II. **A Review on Chemical versus Microbial Leaching of Electronic Wastes with Emphasis on Base Metals Dissolution**
MISHRA S., PANDA S., Akcil A., Dembele S., AĞCASULU İ.
MINERALS, vol.11, no.11, 2021 (Journal Indexed in SCI)
- III. **Biotechnological trends and market impact on the recovery of rare earth elements from bauxite residue (red mud) - A review**
PANDA S., Costa R. B. , Shah S. S. , MISHRA S., Bevilaqua D., Akcil A.
RESOURCES CONSERVATION AND RECYCLING, vol.171, 2021 (Journal Indexed in SCI)
- IV. **Microalgal potential for nutrient-energy-wastewater nexus: Innovations, current trends and future directions**
PANDA S., MISHRA S., Akcil A., KÜÇÜKER M. A.
ENERGY & ENVIRONMENT, 2020 (Journal Indexed in SSCI)
- V. **Effect of Span-80 and ultrasonication on biodesulphurization of lignite by Rhodococcus erythropolis: Lab to semi-pilot scale tests**
MISHRA S., Akcil A. U. , PANDA S., TUNCUK A.
MINERALS ENGINEERING, vol.119, pp.183-190, 2018 (Journal Indexed in SCI)
- VI. **Laboratory and Semipilot Bioreactor Feasibility Tests for Desulphurization of Turkish Lignite using Leptospirillum ferriphilum**
MISHRA S., Akcil A. U. , PANDA S., AĞCASULU İ.
ENERGY & FUELS, vol.32, no.3, pp.2869-2877, 2018 (Journal Indexed in SCI)
- VII. **Biodesulphurization of Turkish lignite by Leptospirillum ferriphilum: Effect of ferrous iron, Span-80 and ultrasonication**
MISHRA S., Akcil A., PANDA S., Ernst C.
HYDROMETALLURGY, vol.176, pp.166-175, 2018 (Journal Indexed in SCI)

- VIII. **A novel bioreactor system for simultaneous multi-metal leaching from industrial pyrite ash: Effect of agitation and sulphur dosage**
PANDA S., Akcil A., MISHRA S., ERUST C.
JOURNAL OF HAZARDOUS MATERIALS, vol.342, pp.454-463, 2018 (Journal Indexed in SCI)
- IX. **Synergistic effect of biogenic Fe³⁺ coupled to S degrees oxidation on simultaneous bioleaching of Cu, Co, Zn and As from hazardous Pyrite Ash Waste**
PANDA S., Akcil A. U. , MISHRA S., ERUST C.
JOURNAL OF HAZARDOUS MATERIALS, vol.325, pp.59-70, 2017 (Journal Indexed in SCI)
- X. **Biodegradation of dibenzothiophene and its application in the production of clean coal**
MISHRA S., PRADHAN N., PANDA S., Akcil A. U.
FUEL PROCESSING TECHNOLOGY, vol.152, pp.325-342, 2016 (Journal Indexed in SCI)
- XI. **Reductive dissolution by waste newspaper for enhanced meso-acidophilic bioleaching of copper from low grade chalcopyrite: A new concept of biohydrometallurgy**
PANDA S., BISWAL A., MISHRA S., PANDA P. K. , PRADHAN N., MOHAPATRA U., SUKLA L. B. , MISHRA B. K. , Akcil A. U.
HYDROMETALLURGY, vol.153, pp.98-105, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Bioremediation of acidic mine effluents and the role of sulfidogenic biosystems: a mini-review**
PANDA S., MISHRA S., Akcil A.
EURO-MEDITERRANEAN JOURNAL FOR ENVIRONMENTAL INTEGRATION, vol.1, no.1, 2016 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Bio-dissolution of Arsenic from Industrial Pyritic Ash Waste**
PANDA S., AKÇİL A. U. , MISHRA S., TUNCUK A., ERUST C., Agacasulu I.
16th International Symposium on Environmental Issues and Waste Management in Energy and Mineral Production (SWEMP) / International Symposium on Computer Applications (CAMI), İstanbul, Turkey, 5 - 07 October 2016

Citations

Total Citations (WOS):121

h-index (WOS):6