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Microbially Assisted Dissolution Of Minerals

Microbially-assisted
dissolution of minerals
and its use in the
mining industry. DOI:
Biomining is currently
used successfully for
the commercial-scale

recovery of metals
such as copper, cobalt,
and gold from their
ores. The mechanism
of metal extraction is
mainly chemistry-
driven and is due to
the action of a
combination of ferric
and hydrogen ions,
depending on the type
of mineral.

Microbially-assisted dissolution of minerals and its use

...
of biologically assisted
mineral degrading
processes. An ore or
concentrate is either
placed in a heap or
dump where it is
irrigated, or a finely
milled mineral
suspension is placed in
a stirred tank where it
is vigorously aerated.
In general, the types of
microorganisms found
in heap-leaching
processes are sim-

Microbially assisted dissolution of minerals and its use

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people who have studied biologically assisted mineral dissolution. This is, do the microorganisms have an effect on the solubilization of metals from minerals that is greater than simply their ...

(PDF) Microbially-assisted dissolution of minerals and its

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Microbially Assisted Dissolution Of Minerals Microbially-assisted dissolution of minerals and its use in the mining industry. DOI: Biomining is currently used successfully for the commercial-scale recovery of metals such as copper, cobalt, and gold from their ores. The mechanism

of metal extraction is mainly chemistry-driven and is due to

Microbially Assisted Dissolution Of Minerals And Its Use

Microbially assisted dissolution of minerals and its use in the mining industry. Pure Appl. Chem., 76(4) (2004)

CiteSeerX — Microbially assisted dissolution of minerals ...

Microbially Assisted Leaching of Uranium—A Review. ... most mineral dissolution processes. operate at a pH between 1.5 and 3.0. This permits these microbes to make use of the.

(PDF) Microbially Assisted Leaching of Uranium—A Review

The direct mechanism involves bacteria being physically attached to the sulfide mineral, resulting in preferential oxidation along the crystal lattice of the mineral, thereby causing dissolution.

This process can be represented according to the following simplified overall reaction (Torma, 1977 , Torma, 1988): (1) $MS + 2 O_2 \rightarrow Bacteria + MSO_4(aq)$ where MS is the metal sulfide.

A review of sulfide minerals microbially assisted leaching ...

Mineral dissolution studies with cultures of bacteria and fungi show a dramatic increase in dissolution rates of feldspar, biotite (Fig. 9a), quartz, apatite, and other minerals (54, 86–93). In experiments with

bacteria, mica, and feldspar, there is a direct correlation between microbial organic ligand production and increased release of Si ...

Biological impact on mineral dissolution: Application of ...

Although the organic compounds in the EPS do not directly participate in metal sulfide dissolution, EPS indeed greatly enhance mineral dissolution: (1) EPS on microbial surfaces facilitate adherence of microbes onto mineral surfaces, furthermore, the expansion of the EPS provides a protection for the microbes to cope with the harsh environments, and assist to the microbial reproduction; (2) EPS absorb plenty of ferric

ions which results in a very high Fe 3+ concentration at the EPS-mineral ...

Sulfide mineral dissolution microbes: Community structure ...

Microbial production of organic acids, ligands, and extracellular polysaccharides could all promote dissolution of minerals (35, 44-46). This is different than microbes using solid-phase minerals in redox processes such as Fe(III) reduction, resulting in the release of toxic metals (2, 24, 28). During redox reactions, microbes use the solid ...

Microbial Mineral Weathering for Nutrient Acquisition ...

This model requires the

dissolution of detrital sanidine grains by microbial metabolites to utilize K⁺ for osmotic balance, the capture of dissolved Si and Al ions by high-surface-area organic molecules such as exopolymers, and the eventual release of these ions after degradation of organics leading to precipitation of authigenic albite, quartz, and an unidentified K⁺-rich clay within the forming calcite matrix.

"Microbially Mediated Dissolution of Detrital Sanidine and ...

Therefore, although microbially promoted carbonate dissolution is enhanced by the local decrease in pH at the cell-mineral

interface (see, e.g., Sjöberg and Rickard, 1984; MacInnis and Brantley, 1992), the results from our study demonstrate that microbes responsible for dissolution, and the nature of carbonate dissolution, across the fresh to saline water transition zone differ as a function of the changing geochemistry.

Microbial diversity and impact on carbonate geochemistry ...

The microbially enhanced dissolution rates observed here, excluding any abiotic contribution, are 9–1000 times higher than known oxidative dissolution rates (3.15×10^{-2} to $1.90 \mu\text{mol (sulfate) m}^{-2} \text{ d}^{-1}$) (Barnett et al., 2001; Holley et al., 2007)

(see Table 1).

Microbial- and thiosulfate-mediated dissolution of mercury ...

Well established mechanisms of microbially enhanced mineral dissolution revolve around organotrophic metabolisms, where microorganisms solubilize mineral components to meet their nutritional needs for conveyance of a growth benefit (Bennett et al., 2001) and provide valuable ecosystem services for higher biota (Calvaruso et al., 2006; Lambers ...

Frontiers | The Weathering Microbiome of an Outcropping ...

Kinetics, surface chemistry, and

structural evolution of microbially mediated sulfide mineral dissolution - NASA/ADS. The effects of different microbial populations on the oxidative dissolution of sulfide minerals at 37°C and pH 1.5 were examined over a period of 22 days. Samples of pyrite, marcasite, and arsenopyrite were exposed to a sulfur-oxidizing isolate (*Thiobacillus caldus*), an iron-oxidizing isolate (*Ferroplasma acidarmanus*), and a mixed enrichment culture containing *T. caldus*, *F.*

Kinetics, surface chemistry, and structural evolution of ...

16 Microbially influenced corrosion (MIC) ... 78 anaerobic environments, it is

commonly grown aerobically for the leaching of sulfide minerals in 79 min ing operations (16, 17) . T here has been rece nt interest in using *A. ferrooxidans* and related ... 83 *ferrooxidans* with the dissolution of metals and its high tolerance of soluble metals, the ...

Microbially influenced corrosion of stainless steel by

...

Microbially oxidized quartz diorite showed greater susceptibility to proton-promoted dissolution, which has important implications for weathering reactions in situ. Collectively, our results suggest that chemolithotrophic Fe(II)-oxidizing bacteria are likely contributors

in the transformation of rock to regolith.

Microbial chemolithotrophy mediates oxidative weathering ...

The dynamic behavior of arsenic (As) species is closely associated with iron mineral dissolution/transformation in the environment. Bacterially induced As(V) desorption from iron oxides may be another important process that facilitates As(V) release from iron oxides without significant reductive dissolution of iron oxides.

Coupled Kinetics Model for Microbially Mediated Arsenic ...

Nevertheless, HgS minerals are still largely considered as stable Hg phases and

microbial-assisted dissolution of HgS at near neutral pH conditions is assumed to be negligible. Observations of substantial Hg fluxes from unknown sources within terrestrial and marine sulfidic sediments, however, have called into question the validity of this assumption.

Microbial- and thiosulfate-mediated dissolution of mercury ...

hydrophilicity on sulfide or non-sulfide minerals and dissolution of precious metals. Microbes can also perform the role of flocculating agents. Biosorption of toxic and heavy metal ions by microbes are finding application in treating tailing ponds. Mechanisms associated

with the use for

microbially