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Climate Smart Mining: Minerals for Climate Action. Countries are taking steps to decarbonize their economies by using wind, solar, and battery technologies, with an end goal of reducing carbon-emitting fossil fuels from the energy mix. But this global energy transition also has a trade-off: to cut emissions, more minerals are needed.

Clay minerals are layer silicates that are formed usually as products of chemical weathering of other silicate minerals at the earth's surface. They are found most often in shales, the most common type of sedimentary rock. In cool, dry, or temperate climates, clay minerals are fairly stable and are an important component of soil.

The clay mineral assemblage of the Xuancheng section can be generally subdivided into three groups, suggesting a general trend of three stages of climate changes. The lower portion of ~10.4–6.3 m depth has a lower illite content and higher abundance of kaolinite and illite-smectite (I/S) clays, indicating that a warm and wet climate prevailed over the episode of ca. 600–350 ka BP. COP26 is the next global conference on climate change, where 196 states will meet in Glasgow, UK, early in November 2020 to make key decisions to safeguard the planet. Cleia President, Philippe Pennillard, discusses.

Weathering & Clay Minerals

Late Jurassic-Early Cretaceous climate change record in ...

Wet conditions favor leaching, or moving deeper with water, of clay and other minerals so that E and B horizons develop. Warm conditions promote the chemical and biological reactions that develop parent material into soil. In a dry climate, the A horizon would be very thin because there are few plants to become organic

The clay-mineral distributions of modern continental soils show the main controls of climate change rather than changes in the lithology (Chamley, 1989; Xiong, 1986). Thus, compared to other proxies, clay-mineral assemblages are relatively less influenced by provenance changes.

Changes in the clay mineral surfaces or the bulk composition of the clay fraction of soils are brought about by a small number of transformation processes, listed below (Brinkman, 1982). Each of these processes can be accelerated or inhibited by changes in external conditions due to global change.

Clay mineralogical methods comparable to those of other authors on northwestern European Juras-

sic-Cretaceous climatic change (cf. Hesselbo et al., 2009; Deconinck et al., 2003) are used here to test preservation of palaeoclimatic signals in a number of wells from the Norwegian Continental Shelf (). Climate change reconstruction is often hampered by poor stratigraphic resolution (Abbink et al ...

Clay Minerals As Climate Change

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Clay record of climate change since the mid-Pleistocene in ...

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Clay Minerals as Climate Change Indicators—A Case Study - CORE

Weathering of rocks and soil is the primary way that clays and clay minerals form at the Earth's surface today. The weathering process involves physical disaggregation and chemical decomposition that change original minerals to clay minerals; weathering is uneven, and many stages of breakdown may be found in the same clay sample.

Environmental Characteristics of Clays and Clay Mineral ...

In fact clay minerals make up about 40% of the minerals in sedimentary rocks. In addition, clay minerals are the main constituent of soils. Understanding of clay minerals is also important from an engineering point of view, as some minerals expand significantly when exposed to water.

Weathering & Clay Minerals

Overview. A new World Bank Group report, "Minerals for Climate Action: "The Mineral Intensity of the Clean Energy Transition," finds that the production of minerals, such as graphite, lithium and cobalt, could increase by nearly 500% by 2050, to meet the growing demand for clean energy technologies. It estimates that over 3 billion tons of minerals and metals will be needed to deploy wind ...

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Climate change and COP26 - what the brick has to do with ...

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Soils and Climate

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Clay mineralogy and geochemistry and their palaeoclimatic ...

Climate Change as Inferred from the Clay Mineral Assemblages of the Finer Fraction of the Mudstones The clay mineral assemblages in the <2 μ m fraction of the Permian mudstones from the Rani-ganj basin are ideal for the interpretation of the paleoclimate as these rocks originated from similar source rocks under very contrasting climatic conditions and the effects of burial diagenesis is ...

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Paleoclimate change since the Miocene inferred from clay ...

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The clay mineralogy of the Late Pliocene-Early Pleistocene Pinjor Formation of the type area, north-western Himalaya, India has been investigated to understand the paleoclimatic conditions and paleotectonic regime prevailing in the frontal Himalayan terrain during 2.5 Ma to 1.7 Ma. The clay minerals were investigated by X-ray diffraction analysis and scanning electron microscope studies.

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