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WATER'S PROTO-PHOTOSYNTHESIS

Abstract

After many years of research and after having published more than a dozen experimental studies, we have recently baptized a new class of materials deriving from the supramolecular aggregation of water molecules, under certain conditions, in the liquid phase: Xerosydryle.

These materials are solid at ambient pressure and temperature, and even an abundant fraction of their mass resists over 950°C, but they are soluble in water. Moreover, in a further unexpected way, the chemical elements that go to make up Xerosydryle, in addition to Oxygen and Hydrogen, there is Carbon, with a % ranging from about 0% to almost 60%.

What is its origin?

Is it possible to hypothesize that the dynamics giving origin to the basic structure of Xerosydryle catalyze the breakdown of atmospheric CO₂ and incorporate its Carbon, thus giving rise to a sort of proto-photosynthesis?

PROMETE's Italian Patent pending n.: 102022000020472: "Process and apparatus for the capture and storage of the carbon of CO₂ in the structure of the Xerosydryle"; inventors: R. Germano, V. Elia, E. Napoli, F. P. Tuccinardi.