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This topic explains about the biological importance of calcium and magnesium. Calcium and Magnesium are one of the most important elements that affect numerous processes inside our body. Magnesium and calcium both are extensively used as alloying agents. Calcium finds application as a reducing agent in different industries.

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She helped launch the inaugural season for women's soccer at Caltech in 2017 and says the sport and the team teach lessons that help her in the classroom and on the field. The chemical engineering major is inspired by the researchers and professors on campus, and she is committed to building a legacy for other young women at Caltech.

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With mixed metal oxides as catalysts for water oxidation and O₂ reduction in heterogeneous and biological systems, fundamental understanding of the effects of redox inactive metals on the chemistry of mixed metal oxide clusters is important for the rational development of effective catalysts. Prior to our work, a single high oxidation state complex displaying an oxo bridged redox active ...

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At the center of biological dioxygen transport are transition-metal complexes of iron or copper. To model such systems, chemists have prepared several synthetic oxygen carriers, especially of iron

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BIOLOGICAL AND SYNTHETIC DIOXYGEN CARRIERS

Calcium ions (Ca²⁺) contribute to the physiology and biochemistry of organisms' cells. They play an important role in signal transduction pathways, where they act as a second messenger, in neurotransmitter release from neurons, in contraction of all muscle cell types, and in fertilization. Many enzymes require calcium ions as a cofactor, including several of the coagulation factors.

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