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Methylarsenate Sorption Mechanisms on Metal Oxides.

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Inorganic arsenic [As(III) and As(V)] interactions with soil components and soils have been extensively studied, however, there is a limited amount of research on organoarsenic, especially monomethylarsenate (MMA) and dimethylarsenate (DMA), reactivity on natural materials. Methylarsenics are as toxic as inorganic arsenic and have been extensively used as pesticides for long periods. To understand the fate of methylarsenic in the environment, MMA and DMA sorption behavior on metal oxides will be investigated, including sorption edges, isotherms, and kinetics of sorption and desorption.

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