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Structural diversity of carbonates containing CO₄ groups

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We demonstrated the synthesis of carbonates containing [CO₄]-groups at moderately high pressures (20-30 GPa) by reacting carbonates with oxides or CO₂. These carbonates have different chemical compositions than the well-known 'conventional' carbonates (MeCO₃) and are enriched either with the metal oxide or with CO₂. Here we will give an overview of carbonates containing [CO₄]-groups and will present crystal-chemical aspects of [CO₄]-groups in comparison to [SiO₄] and other [MO₄] complex anions.

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