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Solid solution of lamellar metal-metal hydroxi salts with varying interlayer anions borate, chloride and sulfate containing different water contents

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LDH-phases are forming lamellar layered crystal structures with positively charged main layers and negatively charged interlayers. These phases can generally be given as $[\text{Me}(1-x)_2\text{Me}(x)_3(\text{OH})_2]_x^+ [\text{A}(x/y)_y]^- \cdot m\text{H}_2\text{O}$. Additionally, Lithium (1+) can be incorporated in the structure instead of the metals (2+).

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