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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 $[Me(1-x)2+ Me(x)3+ (OH)2]x+ [A(x/y)y- \cdot mH_2O]x-$. Additionally, Lithium (1+) can be incorporated in the structure instead of the metals (2+).

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