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First principles analysis of precipitation in Mg-Zn alloys

Mg-rich olivine has also been discovered in meteorites, on the Moon and Mars, falling into infant stars, as well as on asteroid 25143 Itokawa. Such meteorites include

chondrites, collections of debris from the early Solar System; and pallasites, mixes of iron-nickel and olivine.. The spectral signature of olivine has been seen in the dust disks around young stars.

Olivine - Wikipedia

A batch of Ni-rich oxide samples with different compositions (LiNi 0.9 Co 0.1 O 2, LiNi 0.89 Co 0.09 Mg 0.02 O 2, and LiNi 0.9 Co 0.05 Mg 0.05 O 2) were also prepared via similar procedures to investigate the effect of Mg content on the electrode performance (ESI Fig. S10†). Structural refinement of the obtained samples suggests that the optimum Mg proportion is around 2–3%, which gives ...

Stabilizing nickel-rich layered oxide cathodes by ...

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Stability of phase D at high pressure and high temperature

We have heated ferropericlasses (Mg_{0.60}Fe_{0.40})O and (Mg_{0.50}Fe_{0.50})O to temperatures of 1000 kelvin at pressures of 86 gigapascals, simulating the stability of the solid solution at physical conditions relevant to Earth's lower mantle. The in situ x-ray study of the externally heated samples in a Mao-Bell-type diamond anvil cell shows that ferropericlasse may dissociate into magnesium-rich and ...

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