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The thermal stability behavior exhibited by the coatings is an important finding from the perspective of overall coating properties. Mg-rich primers have been shown to exhibit outstanding corrosion protection properties. The thermal stability attribute of the coating system can further increase the range of applications for the system.

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Thermal stability of magnesium-rich primers based on ...

The stability of Mg-rich garnet in the system $\text{CaMgAl}_2\text{O}_3\text{-SiO}_2$ at 1000-1300°C and high pressure'. *American Mineralogist*, Volume 68, pages 355-364, 1983. Dnrnn PBmrNs III2 Department of Geophysical Sciences The University of Chicago Chicago, Illinois 60637. Abstract Reactions limiting the stability of garnet + quartz in the $\text{CaO-MgO-Al}_2\text{O}_3\text{-SiO}_2$ (CMAS) and $\text{MgO-Al}_2\text{O}_3\text{-SiO}_2$ (MAS) systems have been experimentally reversed in a piston cylinder apparatus at 10-13 kbar and 10-25 kbar.

The stability of Mg-rich garnet in the system $\text{CaMgAl}_2\text{O}_3$

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Igneous origin of Mg-rich actinolite. The results from this study indicate that the upper thermal stability of actinolite with $\text{Ca} > 1.7$ a.p.f.u. and Fe-numbers of 0–0.4 varies essentially linearly over the range of conditions investigated.

Experimental Investigation of the Upper Thermal Stability ...

Show Summary Details Preview.

The occurrence of actinolite in magnetite deposits of possible magmatic origin has prompted an experimental investigation of the upper thermal stability of Mg-rich actinolite to determine how the stability of actinolite changes with increasing Fe content.

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Experimental Investigation of the Upper Thermal Stability ...

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Sulfidation of Mg-rich olivine and
the stability of niningerite in

enstatite chondrites MICHAEL E.

FLEET and NEIL D. MACRAE

Department of Geology,

University of Western Ontario,

London, Ontario, Canada, N6A

5B7 (Received October 9, 1986;

accepted in revised form March 4,

1987) Abstracts heated with

excess (Fe, Ni) monosulfide and

graphite in a sealed ...

Sulfidation of Mg-rich olivine and the stability of ...

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System $\text{CaMg}(\text{Al}, \text{Fe})_2\text{Si}_2\text{O}_{10}$ might not

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Abstract. A series of hydrogen rich Mg 6-7 TMH 14-16 (TM = Ti, Zr, Hf, V, Nb and Ta) hydrides have been synthesized at 600 °C in a high pressure anvil cell above 4 GPa. All have structures based on a fluorite type metal atom subcell lattice with a $\approx 4.8 \text{ \AA}$. The TM atom arrangements are, however, more ordered and can best be described by a

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superstructure where the 4.8 Å
FCC unit cell axis is doubled.

Structure and stability of high pressure synthesized Mg-TM

...

Our results show that addition of Mg in wüstite (FeO) can stabilize the rock-salt structure to much higher pressures and temperatures. In contrast to the previous studies, our results indicate that Mg-rich magnesiowüstite is stable in the rock-salt structure in the lower mantle.

Stability of magnesiowüstite in Earth's lower mantle | PNAS

The results indicate that the optimal Mg content is within 2-3% and a higher degree of Mg

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doping exerts a negative effect, which is due to the fact that too many Mg²⁺ ions in Li sites hinder Li⁺ diffusion and decrease the deliverable capacity. 8a,9c,17 Furthermore, LiNi_{0.9}Co_{0.07}Mg_{0.03}O₂ microspheres outperform other representative Ni-rich layered cathode materials in terms of reversible capacity and rate capability (ESI Table S9†), indicating the superiority of Mg-doping in ...

Stabilizing nickel-rich layered oxide cathodes by ...

The reactions defining the stability of Si-rich Mg-sursassite are unknown, but are likely to be fundamentally different from those of Mg-sursassite, and involve other ultrahigh-pressure

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dense structures such as phase D, rather than phase A. You do not currently have access to this article.

Si-rich Mg-sursassite $Mg_4Al_5Si_7O_{23}(OH)_5$ with octahedrally ...

The Mg substitution and Al-rich surface of Al(GD)-LNCMgO suppressed the reactions of electrolytes with the material and inhibited increases in resistance. Doping Mg and Al in LNCO can also accelerate Li-ion diffusion. Keywords: lithium ion battery, cathode material, Mg doped, Al gradient-doped, electrochemical performance.. 1.

Improved Electrochemical Performance of Ni-rich

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Cathode ...

Stability evaluation Effect of light on stability of the extract The ellagic acid-rich pomegranate fruit peel extracts were weighed to 100 mg and kept in well-closed containers The extracts were then stored at room temperature ($30^{\circ} \pm 2^{\circ}\text{C}$) either protected from light

...

The Stability Of Mg Rich Garnet In The System Cagm₂g₂al₂o₃

Mg-doped Li[Li 0.2 Ni 0.2 Mn 0.6]O₂ as a Li-rich cathode material of lithium-ion batteries were prepared by co-precipitation method and ball-milling treatment using Mg(OH)₂ as a dopant. Scanning electron microscopy (SEM), ex situ X-ray

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powder diffraction (XRD), cyclic voltammetry (CV), electrochemical impedance spectroscopy (EIS) and galvanostatic charge/discharge were used to investigate the ...

Synthesize and electrochemical characterization of Mg ...

Abstract. We have determined the stability of the dense hydrous magnesium silicate phase D in a $\text{Mg}_2\text{SiO}_4 + 20.5 \text{ wt } \% \text{ H}_2\text{O}$ composition between 16 and 25 GPa at 900 °C- 1400°C. Phase D coexists with superhydrous phase B and a Mg-rich liquid to temperatures of 1000°C at 17 GPa and 1400°C at 26 GPa.

Stability of phase D at high

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pressure and high temperature

This also suggests that Mg & La co-doping can improve the structural stability of lithium-rich layer oxide material. To study the impact of Mg & La co-doping on rate capability, all samples were cycled between 2.0 and 4.8 V at 0.1 C, 0.2 C, 0.5 C, 1 C, 2 C, 5 C.

Improving the electrochemical performance of lithium-rich ...

When heated with excess (Fe, Ni) monosulfide and graphite in a sealed silica glass tube at 1200°C, Mg-rich olivine (Fo90) is sulfidized to niningerite [(Mg, Fe)S] and clinoenstatite by the reaction: $Mg_2SiO_4 + 1/2S_2 + C = MgSiO_3 + MgS + CO$. Minor amounts of (Fe, Ni) suicides and

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silicon Sulfides are also produced.

$\text{Ca}(\text{Mg},\text{Fe})_2\text{O}_3$

Sulfidation of Mg-rich olivine and the stability of ...

The long-period stacking ordered structures 18R and 14H formed in Mg-Y-X (X = Zn, Cu, Ni) systems have received considerable interest over the past decade, but their thermal stability and relationships with other intermetallic phases in the Mg-Y-X systems remain to be unambiguously established.

Phase equilibria and transformations in ternary Mg- rich Mg ...

Mg-rich olivine is stable to pressures equivalent to a depth of about 410 km (250 mi) within Earth. Because it is thought to be

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the most abundant mineral in Earth's mantle at shallower depths, the properties of olivine have a dominant influence upon the rheology of that part of Earth and hence upon the solid flow that drives plate tectonics .

Olivine - Wikipedia

Results show that fibrous Mg-rich phyllosilicates are stronger than their planar equivalents. Frictional strength in this group of minerals is highly influenced by strength of the atomic bonds, continuity of water layers within the crystals, and interactions of mineral surfaces with water molecules, all of which are dictated by crystal structure.

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