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## **Stability of Ferropericlase in the Lower Mantle | Science**

The occurrence of  
actinolite in magnetite  
deposits of possible  
magmatic origin has

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prompted an experimental investigation of the upper thermal stability of Mg-rich actinolite to determine how the ...

## **Experimental Investigation of the Upper Thermal Stability ...**

Magnesiowüstite [(Mg,Fe)O] is the second most abundant mineral of Earth's lower mantle.

Understanding its

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stability under lower mantle conditions is crucial for interpreting the physical and chemical properties of the whole Earth.

Previous studies in an externally heated diamond anvil cell suggested that magnesiowüstites decompose into two components, Fe-rich and Mg-rich magnesiowüstites at ...

### **Stability of phase D**

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## Rich Garnet In The System Ca<sub>2</sub>Mg<sub>2</sub>Si<sub>2</sub>O<sub>10</sub>O<sub>22</sub>

**at high pressure and  
high temperature**

We have heated ferropericlases (Mg<sub>0.60</sub>Fe<sub>0.40</sub>)O and (Mg<sub>0.50</sub>Fe<sub>0.50</sub>)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-



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Bell-type diamond  
anvil cell shows that  
ferropericlase may  
dissociate into  
magnesium-rich and ...

### **Structure and stability of high pressure synthesized Mg-TM**

...

When heated with  
excess (Fe, Ni)  
monosulfide and  
graphite in a sealed  
silica glass tube at  
1200°C, Mg-rich olivine

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(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 silicon

Sulfides are also  
produced.

## **The stability of Mg- rich garnet in the system**

**CaGMgGAI2O3 ...**

A series of hydrogen

rich Mg<sub>6-7</sub>TMH

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System

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 superstructure where the  $4.8 \text{ \AA}$  FCC unit cell axis is...

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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-

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Spectral signature of  
olivine has been seen  
in the dust disks  
around young stars.

## **Stability of SiC in Al- Rich Corner of Liquid Al-Si-Mg ...**

ascertain the phase  
stability and the  
precipitation sequence  
in metallic alloys  
[29-34]. In the  
particular case of Mg  
alloys, Wang et al. [31]  
determined the

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System  
CdMgGa<sub>2</sub>O<sub>3</sub>

formation energy of the known stable phases in the Mg-Zn system by density functional theory (DFT) and concluded that Mg<sub>21</sub>Zn<sub>25</sub> was the equilibrium ! phase.

## **Improved Electrochemical Performance of Ni- rich Cathode ...**

Abstract. We have determined the stability of the dense hydrous magnesium

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silicate phase D in a  
Mg<sub>2</sub>SiO<sub>4</sub> + 20.5 wt %  
H<sub>2</sub>O composition  
between 16 and 25  
GPa at 900 °- 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.

### **Anthocyanin - Wikipedia**

In this work, the  
combined effect of Mg  
and La co-doping on

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the electrochemical  
performance of lithium-  
rich oxide layer  
material has been

investigated. Owing  
to the Mg and La co-  
doping that are doped  
in Li-sites and Mn-sites  
in transition metal (TM)  
layer,  $\text{Li}(\text{Li}_{0.18} \text{Mn}_{0.52} \text{Co}_{0.13} \text{Ni}_{0.13} \text{La}_{0.02} \text{Mg}_{0.02})\text{O}_2$   
exhibits excellent  
structure stability and  
electrochemical  
performance.



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**(PDF) Experimental**

**Investigation of the  
Upper Thermal ...**

Experimental

Investigation of the  
Upper Thermal Stability  
of Mg-rich Actinolite;  
Implications for Kiruna-  
Type Iron Deposits

**Experimental  
Investigation of the  
Upper Thermal  
Stability ...**

The thermodynamic  
analysis of the SiC/Al-Si-  
Mg system has been

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System

performed in order to  
find the conditions to  
produce SiC/Al-Si-Mg  
composite materials

with the stable

SiC/alloy interface (for  
both a-SiC and b-SiC)

and with the

solidification of primary  
a-Al solid solution. The

conditions to avoid the  
formation of  $Al_4C_3$  are

expressed as function  
of temperature, and

the silicon and

magnesium ...

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**Experimental  
Investigation of the  
Upper Thermal  
Stability ...**

Stability Anthocyanins  
are thought to be  
subject to  
physiochemical  
degradation in vivo and  
in vitro . Structure, pH,  
temperature, light,  
oxygen, metal ions,  
intramolecular  
association, and  
intermolecular  
association with other  
compounds

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(copigments, sugars, proteins, degradation products, etc.) generally are known to affect the color and stability of anthocyanins. [53]

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

CiteSeerX - Document Details (Isaac Council, Lee Giles, Pradeep Teregowda): The occurrence of actinolite in magnetite deposits

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of possible mag-matic  
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.  
Experiments were  
carried out primarily on  
the compositional re ...

## **Stability of magnesiowüstite in Earth's lower mantle**

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| **PNAS**

Stability Of Mg Rich  
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Cagmggal<sub>2</sub>o<sub>3</sub> might not  
require more era to  
spend to go to the  
books start as well as  
search for them. In  
some cases, you  
likewise pull off not  
discover the  
declaration the stability  
of mg rich garnet in the  
system cagmggal<sub>2</sub>o<sub>3</sub>  
that you are looking  
for. It will very  
squander the time.

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## **Olivine - Wikipedia**

A batch of Ni-rich oxide samples with different compositions (LiNi 0.9 Co 0.1 O<sub>2</sub>, LiNi 0.89 Co 0.09 Mg 0.02 O<sub>2</sub>, and LiNi 0.9 Co 0.05 Mg 0.05 O<sub>2</sub>) were also prepared via similar procedures to investigate the effect of Mg content on the electrode performance (ESI Fig. S10†). Structural refinement of the

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System  
CaMgGaAl<sub>2</sub>O<sub>3</sub>  
obtained samples  
suggests that the  
optimum Mg proportion  
is around 2-3%, which  
gives ...

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

The stability of Mg-rich  
garnet in the system  
CaGMgGaAl<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> at  
1000-1300°C and high  
pressure' American  
Mineralogist, Volume  
68, pages 355-364,  
1983 Dnxrnn PBmrNs



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III2 Department of  
Geophysical Sciences  
The University of  
Chicago Chicago,  
Illinois 60637 Abstract  
Reactions limiting the  
stability of garnet +  
quartz in the CaO-MgO-  
Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub> (CMAS)

## **The Stability Of Mg Rich Garnet In The System**

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Igneous origin of Mg-  
rich actinolite. The  
results from this study

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indicate that the upper thermal stability of actinolite with Ca > 1.7 a.p.f.u. and Fe-numbers of 0-0.4 varies essentially linearly over the range of conditions investigated.

### **The Stability Of Mg Rich**

The thermal stability behavior exhibited by the coatings is an important finding from

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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.

**Stabilizing nickel-rich layered oxide cathodes by ...**

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initial efficiency, rate capability, cycle-life, thermal stability, and air-exposed stability

that were superior to those of Al and Mg co-doped  $\text{LiNi}_{0.78}\text{Co}_{0.19}\text{Mg}_{0.01}\text{Al}_{0.02}\text{O}_2$  (LNCMgAlO),  $\text{LiNi}_{0.80}\text{Co}_{0.19}\text{Mg}_{0.01}\text{O}_2$  (LNCMgO), and  $\text{LiNi}_{0.81}\text{Co}_{0.19}\text{O}_2$  (LNCO). The Mg substitution and Al-rich

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System  
Cagm<sub>2</sub>g<sub>2</sub>al<sub>2</sub>o<sub>3</sub>**