

# Instruction Manual for accessing and reading EJM-online

Preface:

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# Accessing (reading) EJM-online articles:

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<http://www.catchword.com/schweiz/09351221/contp1-1.htm>

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E.g:

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Volume 15 Number 6  
Issue Dec 2003

<b>Spectroscopic 2D-tomography: Residual pressure and strain around mineral inclusions in diamonds</b>	<a href="#">931</a>
Lutz Nasdala; Frank E. Brenker; Jürgen Glinnemann; Wolfgang Hofmeister; Tibor Gasparik; Jeffrey W.Harris; Thomas Stachel; Ingo Reese	
<b>Experimental study of the microtextural and structural transformations of carbonaceous materials under pressure and temperature</b>	<a href="#">937</a>
Olivier Beyssac; Fabrice Brunet; Jean-Pierre Petit; Bruno Goffé; Jean-Noël Rouzaud	
<b>The system MgO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>-Cr<sub>2</sub>O<sub>3</sub> revisited: reanalysis of Doroshev et al.'s (1997) experiments and new experiments</b>	<a href="#">953</a>
Andrei V. Girmis; Gerhard P. Brey; Alexei M. Doroshev; Aleksandr I. Turkin; Nina Simon	
<b>Highly magnesian olivines and green-core clinopyroxenes in ultrapotassic lavas from western Yunnan, China: evidence for a complex hybrid origin</b>	<a href="#">965</a>
Yigang Xu; Xiaolong Huang; Martin A. Menzies; Rucheng Wang	

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When clicking on the page number (e.g. [953](#)) while **not having already logged in**, the following screen will appear:

# European Journal of Mineralogy

## Document Request

<b>Title:</b> The system MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -Cr <sub>2</sub> O <sub>3</sub> revisited: reanalysis of Doroshev et al.'s (1997) experiments and new experiments
<b>Author(s):</b> Andrei V. Giris ; Gerhard P. Brey ; Alexei M. Doroshev ; Aleksandr I. Turkin ; Nina Simon
<b>Source:</b> European Journal of Mineralogy <b>Volume:</b> 15 <b>Number:</b> 6 <b>Page:</b> 953 -- 964
<b>DOI:</b> 10.1127/0935-1221/2003/0015-0953
<b>Publisher:</b> E. Schweizerbart Science Publishers
<b>Abstract:</b> New experimental data are presented on the partitioning of Cr and Al between spinel-picrochromite and corundum-eskolaite solid solutions at 5.0 GPa and 1300, 1500°C and garnet-spinel-orthopyroxene equilibria at 3.0 and 4.0 GPa and 1000°C. The experimental products of Doroshev <i>et al.</i> 's (1997) experiments on mineral equilibria in the MASCr system were reanalysed in order to clarify the direction and mechanism of approach to equilibrium. Detailed analysis of mineral compositions was carried out by electron microprobe with high spatial resolution, which demonstrated complex zoning patterns of minerals. In experiments with pure pyrope in the starting material, garnet shows simple zoning with Cr-rich seams mantling relicts of aluminous garnet. In experiments with Cr-rich garnets in the starting mixture (Cr/(Cr+Al) = 0.3-0.8), more complex patterns were observed. Knorringite-rich garnet cores are overgrown in sequence by Al-rich ( $X_{Cr} = 0.1-0.2$ ) and then Cr-rich zones. The analytical data allowed us to establish the direction of approach to equilibrium for particular grains, which eliminated the path-looping problem. The results were compared to published experimental data on garnet, orthopyroxene, spinel, and eskolaite equilibria in the MAS and MASCr systems. It was shown that all the data can be described by a simple thermodynamic model, if the uncertainty of analytical results is taken into account.
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<b>Reference Links:</b> 26

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The publishers and the Staff of EJM