

GUY L. HOVIS PUBLICATIONS

1971 - 2023

PEER-REVIEWED ARTICLES

Lafayette College student coauthors shown in bold

Hovis, G.L., Tribaudino, M., **Altomare, C.**, Bosi, F. (2023) Thermal expansion of minerals in the tourmaline supergroup. *American Mineralogist* 108, 1053-1063.

Bosi, F., Skogby, H., Hovis, G.L. (2023) Crystal chemistry of povondraite by single-crystal XRD, EMPA, Mössbauer spectroscopy and FTIR. *Mineralogical Magazine* 87, 178-185.
<https://www.doi.org/10.1180/mgm.2022.132>.

Tribaudino, M., Hovis, G.L., **Almer, C.**, **Leaman, A.** (2022) Thermal expansion of minerals in the amphibole supergroup. *American Mineralogist* 107, 1302-1312.

Hovis, G.L., Tribaudino, M., **Leaman, A.**, **Almer, C.**, **Altomare, C.**, **Morris, M.**, **Maksymiw, N.**, **Morris, D.**, **Jackson, K.**, **Scott, B.**, **Tomaino, G.**, Mantovani, L. (2021) Thermal expansion of minerals in the pyroxene system and examination of various thermal expansion models. *American Mineralogist* 106, 883-899.

Antao, S., Hovis, G.L. (2021) Structural variations across the nepheline (NaAlSiO_4) - kalsilite (KAlSiO_4) series. *American Mineralogist* 106, 801-811.

Hovis, G.L. (2017) A refined view of the thermodynamic mixing quantities for alkali feldspars and the quandary of excess configurational entropy. *American Journal of Science* 317, 597-640.

Hovis, G., Abraham, T., **Hudacek, W.**, **Wildermuth, S.**, **Scott, B.**, **Altomare, C.**, **Medford, A.**, **Conlon, M.**, **Morris, M.**, **Leaman, A.**, **Almer, C.**, **Tomaino, G.**, Harlov, D. (2015) Thermal expansion of F-Cl apatite crystalline solutions. *American Mineralogist* 100, 1040-1046.

Hovis, G.L., **Scott, B.T.**, **Altomare, C.M.**, **Leaman, A.R.**, **Morris, M.D.**, **Tomaino, G.P.**, McCubbin, F.M. (2014) Thermal expansion of fluorapatite-hydroxylapatite crystalline solutions. *American Mineralogist* 99, 2171-2175.

Hovis, G.L., McCubbin, F., Nekvasil, H., Ustunisik, G., Woerner, W., Lindsley, D.H. (2014) A novel technique for fluorapatite synthesis and the thermodynamic mixing behavior of F-OH apatite crystalline solutions. *American Mineralogist* 99, 890-897.

Hovis, G.L., **Medford, A.**, **Conlon, M.**, **Tether, A.**, **Romanoski, A.** (2010) Principles of thermal expansion in the feldspar system. *American Mineralogist* 95, 1060-1068.

Hovis, G.L., Harlov, D. (2010) Solution calorimetric investigation of fluor-chlorapatite crystalline solutions. *American Mineralogist* 95, 946-952.

Hovis, G.L., **Mott, A. V.**, Roux, J. (2009) Thermodynamic, phase equilibrium, and crystal chemical behavior in the nepheline - kalsilite system. *American Journal of Science* 309, 397-419.

Hovis, G.L., **Morabito, J.R. Spooner, R., Mott, A. Person, E.L.**, Henderson, C.M.B., Roux, J., Harlov, D. (2008) A simple predictive model for the thermal expansion of AlSi_3 feldspars. *American Mineralogist* 93, 1568-1573.

Hovis, G.L., Roux, J. (2008) Thermodynamic mixing properties of Rb-K feldspars. *American Mineralogist* 93, 1597-1602.

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Neuhoff, P. S., Hovis, G.L., Balassone, G., Stebbins, J.F. (2004) Thermodynamic properties of analcime solid solutions. *American Journal of Science* 304, 21-66.

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Hovis, G.L. (1974) A solution calorimetric and X-ray investigation of Al-Si distribution in monoclinic potassium feldspars. In *The Feldspars*, W. S. MacKenzie and J. Zussman, eds., University of Manchester Press, Manchester, England, 114-144.

DOCTORAL DISSERTATION

Hovis, G.L. (1971) *Thermodynamic properties of monoclinic potassium feldspars*. Harvard University, Cambridge, Massachusetts.

ABSTRACTS AND CONFERENCE PRESENTATIONS

Lafayette College student coauthors shown in bold

Hovis, G.L. (2016) Systematic behavior of K-Na mixing enthalpies with Al-Si order in alkali feldspars and implications for phase equilibria. *2nd European Mineralogical Conference*, Rimini, Italy.

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Rodrigues, E., Roux, J., Hovis, G.L., (2000) Ternary analcime-pollucite solid solutions: Phase equilibrium data (1-5 kbar, 600 °C). *Journal of Conference Abstracts (Cambridge Publications), Volume 5, Number 1, 87. [Experimental Mineralogy, Petrology, and Geochemistry Meeting (EMPG VIII)]*

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