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Crystal structure and Raman spectrum of a high-pressure Li-rich majoritic garnet,
(Li₂Mg)Si₂(SiO₄)₃

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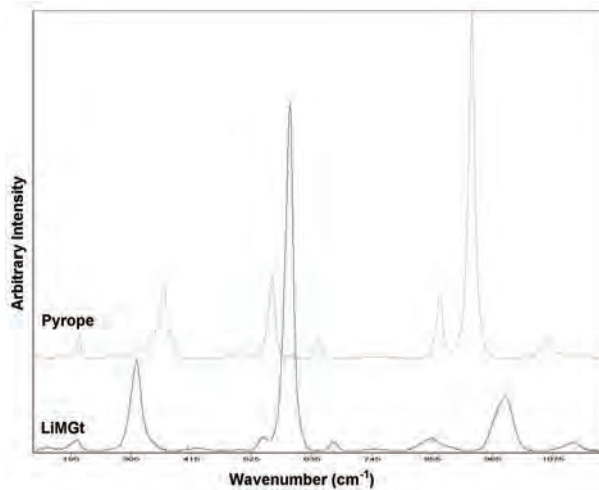


FIGURE 2. Raman spectra of Li-rich majoritic garnet and pyrope.

TABLE 2. Atomic coordinates and displacement parameters in Li-bearing majoritic garnet

Atom	x	y	z	U ₁₁	U ₂₂	U ₃₃	U ₁₂	U ₁₃	U ₂₃	U _{eq}
X	1/8	0	1/4	0.0070(17)	0.0165(6)	= U ₂₂	0	0	0.0018(4)	0.0133(5)
Y	0	0	0	0.0052(2)	= U ₁₁	= U ₁₁	0.0002(1)	= U ₁₂	= U ₁₂	0.0052(2)
Si	3/8	0	1/4	0.0056(2)	0.0050(2)	= U ₂₂	0	0	0	0.0052(1)
O	0.03231(5)	0.04389(5)	0.64800(5)	0.0075(2)	0.0095(2)	0.0061(2)	0.0010(2)	-0.0014(2)	-0.0002(2)	0.0077(2)

Notes: U_{ij} parameters are in unit of Å².