

AM-90-443

Infrared spectra of  $\text{GeO}_2$  with the rutile structure and prediction of inactive modes for isostructural compounds

Anne M. Hofmeister, Joanne Horigan, Julie M. Campbell

For deposit: Figures 6, 7, 8, 9

American Mineralogist, 75, 11-12, 1238-1248.

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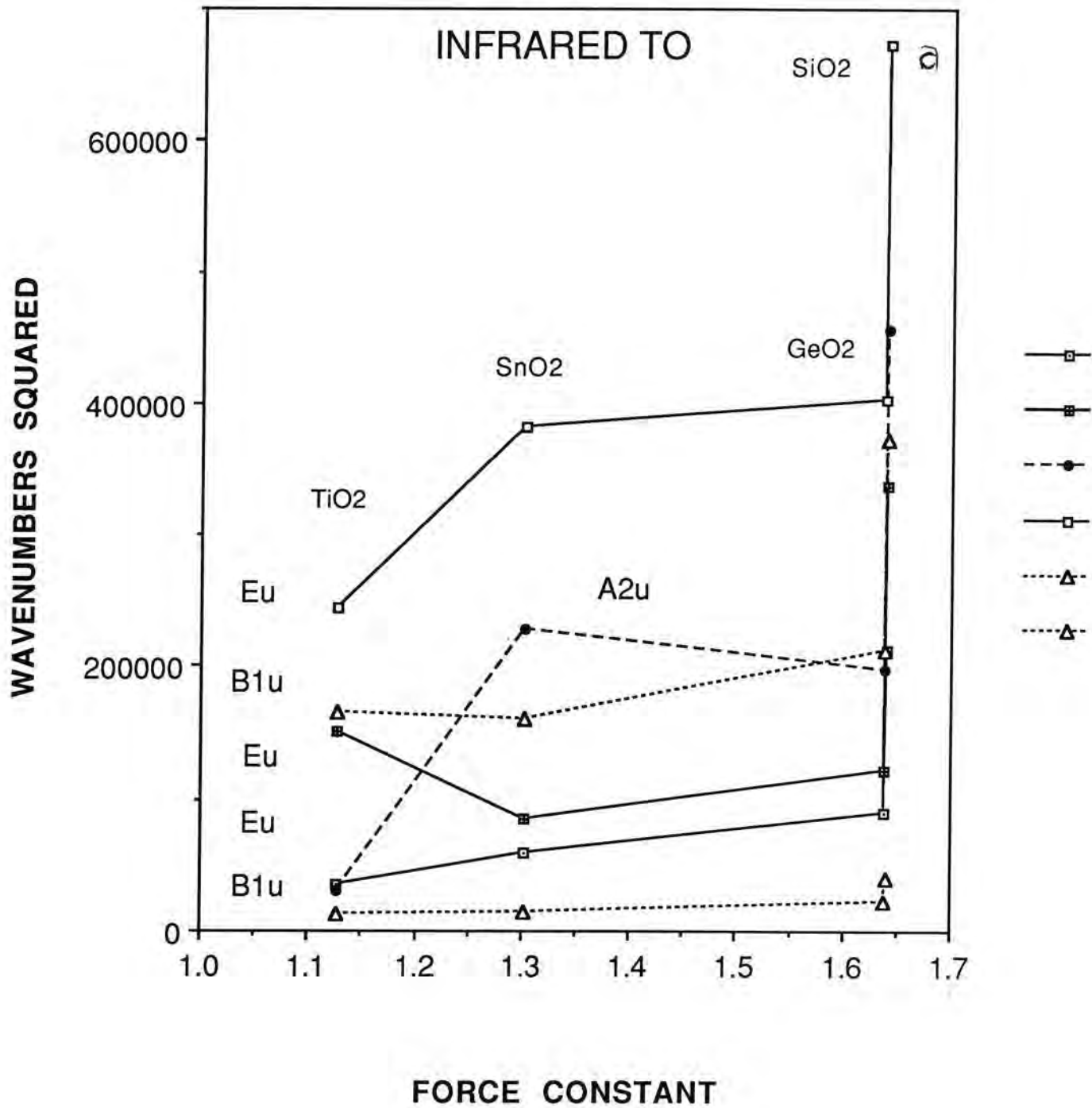
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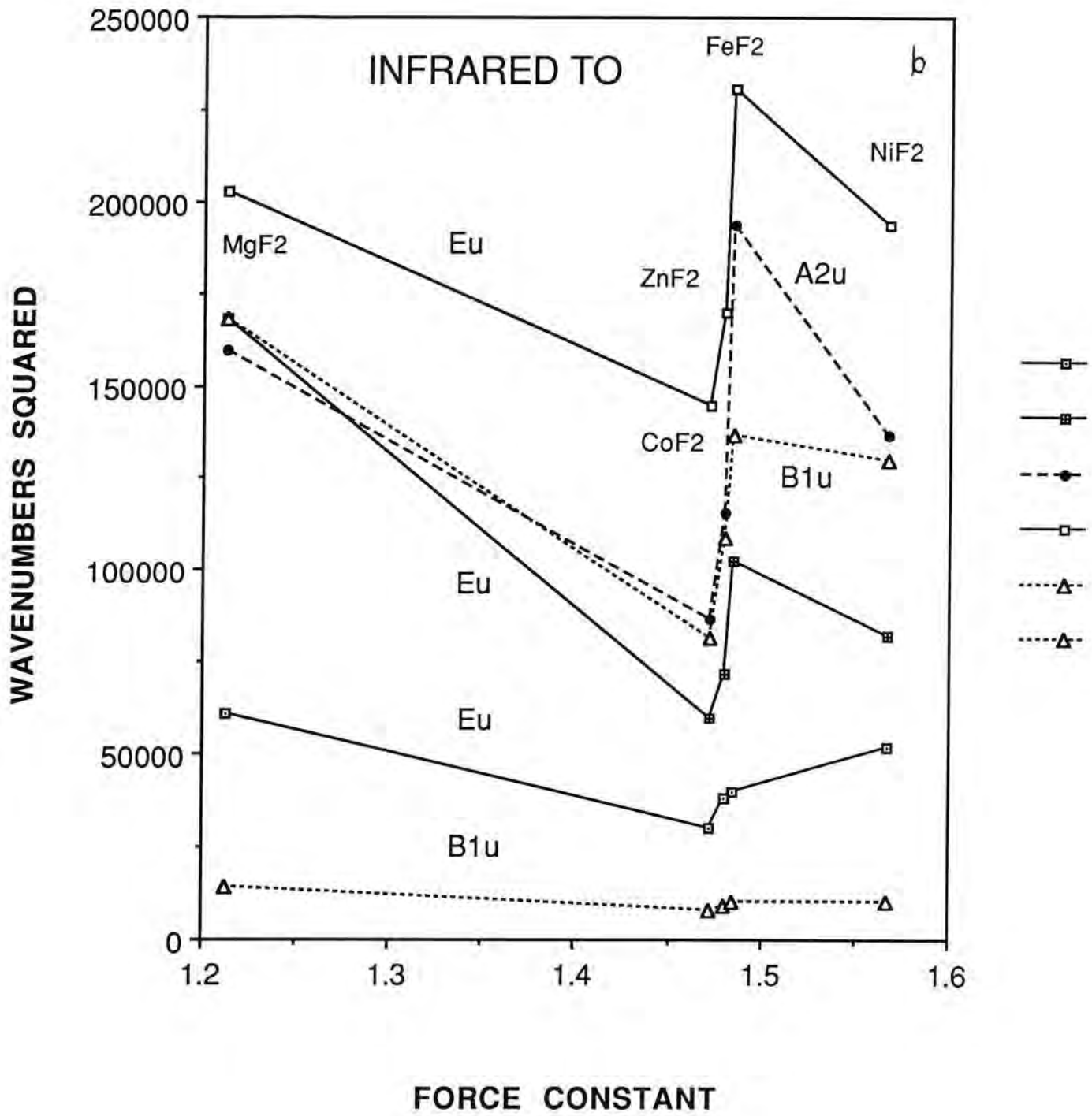
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**Fig. 6.** Dependence of the square of the vibrational frequency of the ungerade TO modes on force constant. (a) Oxides. (b) Fluorides. Force constants were calculated from eq. 4. See caption of Fig. 2 for further details.



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Fig 6a  
Hofmeister über Fig 6a App



6b

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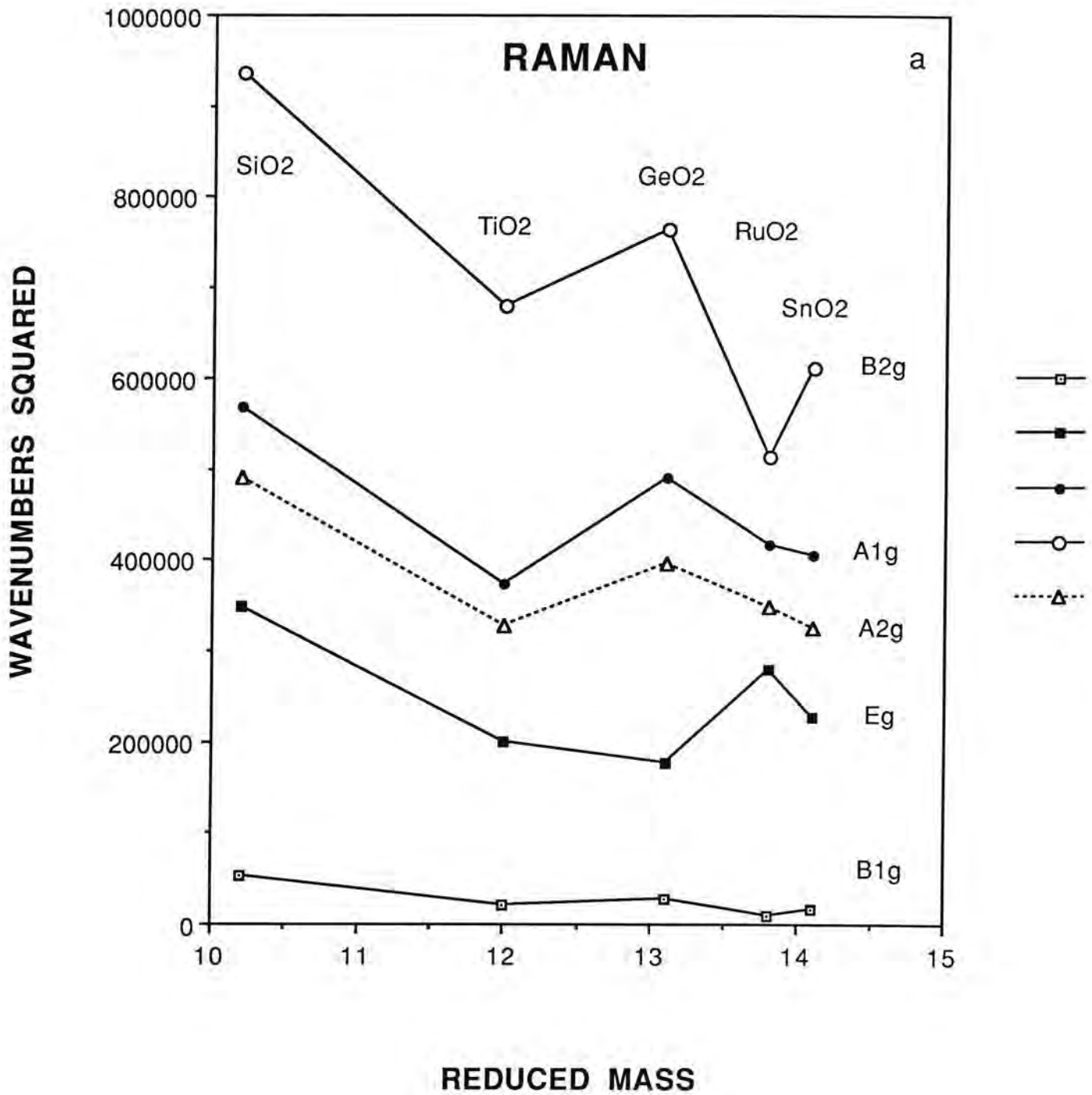
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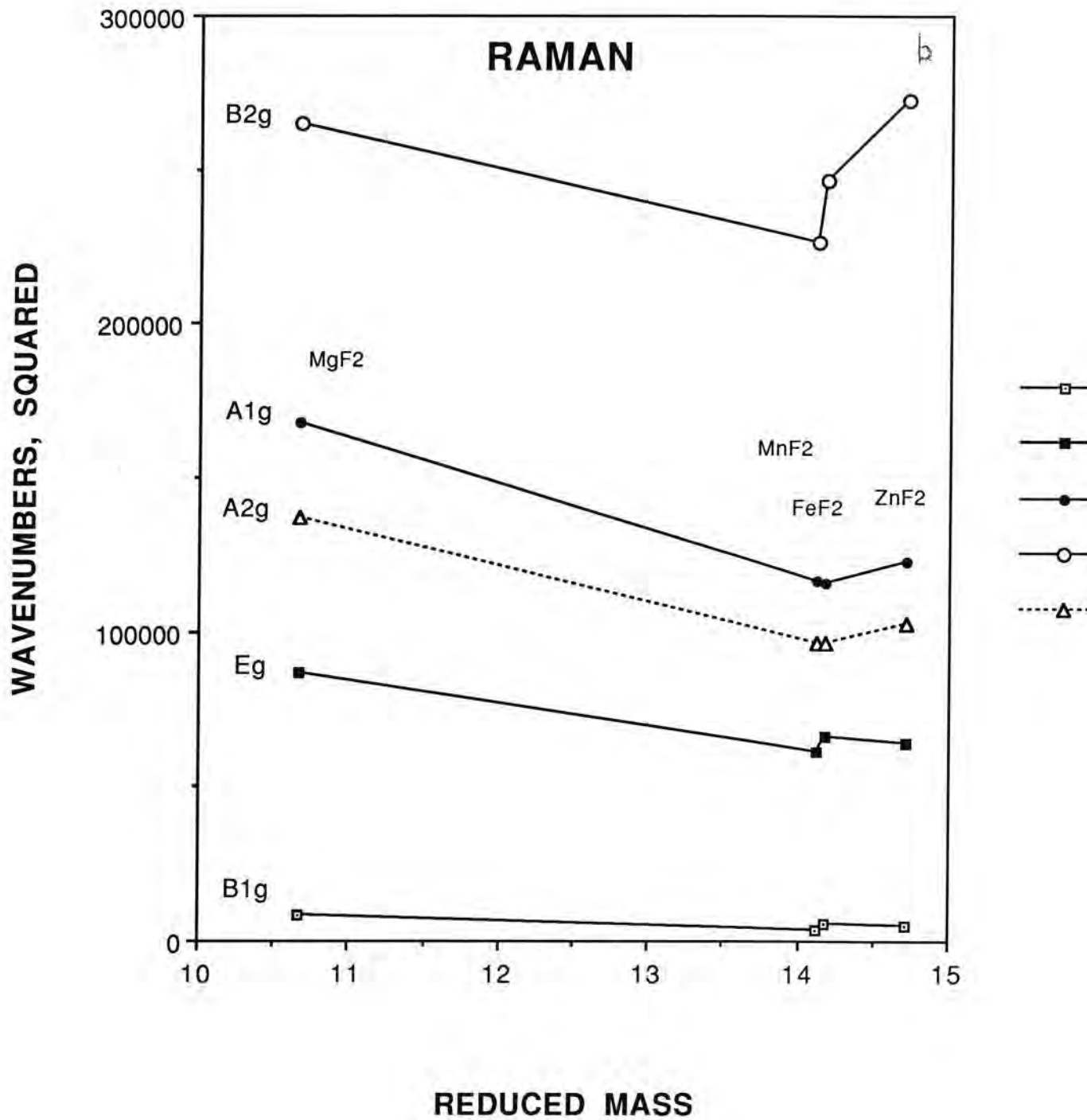
For deposit: Figures 7

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**Fig. 7.** Dependence of the square of the vibrational frequency on reduced mass. (a) Gerade modes of the oxides. (b) Gerade modes of the fluorides. (c) Ungerade modes of the oxides. (d) Ungerade modes of the fluorides. See caption of Fig. 2 for further details.

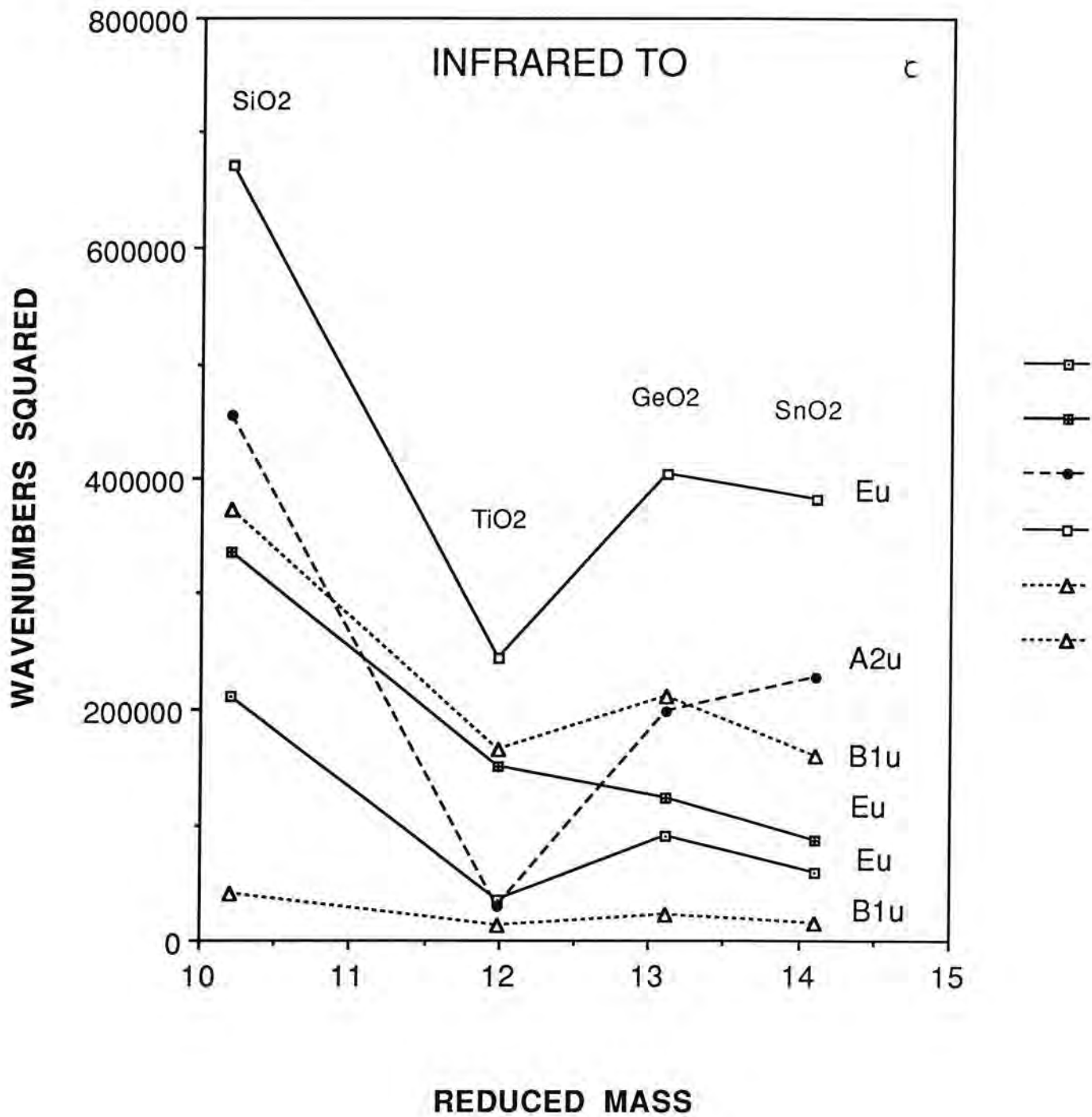


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 75  
 Hofmeister et al Fig 7a App



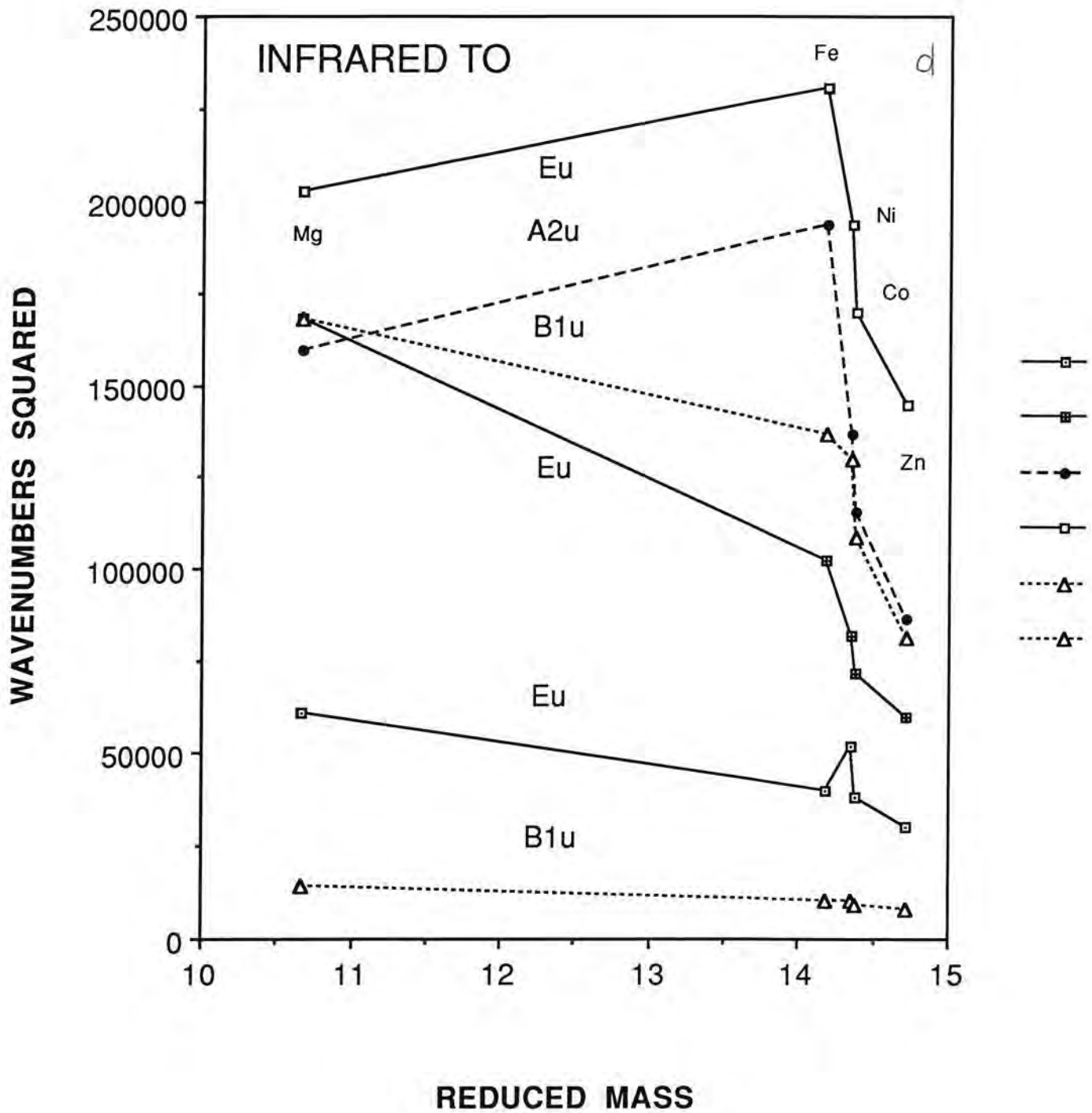
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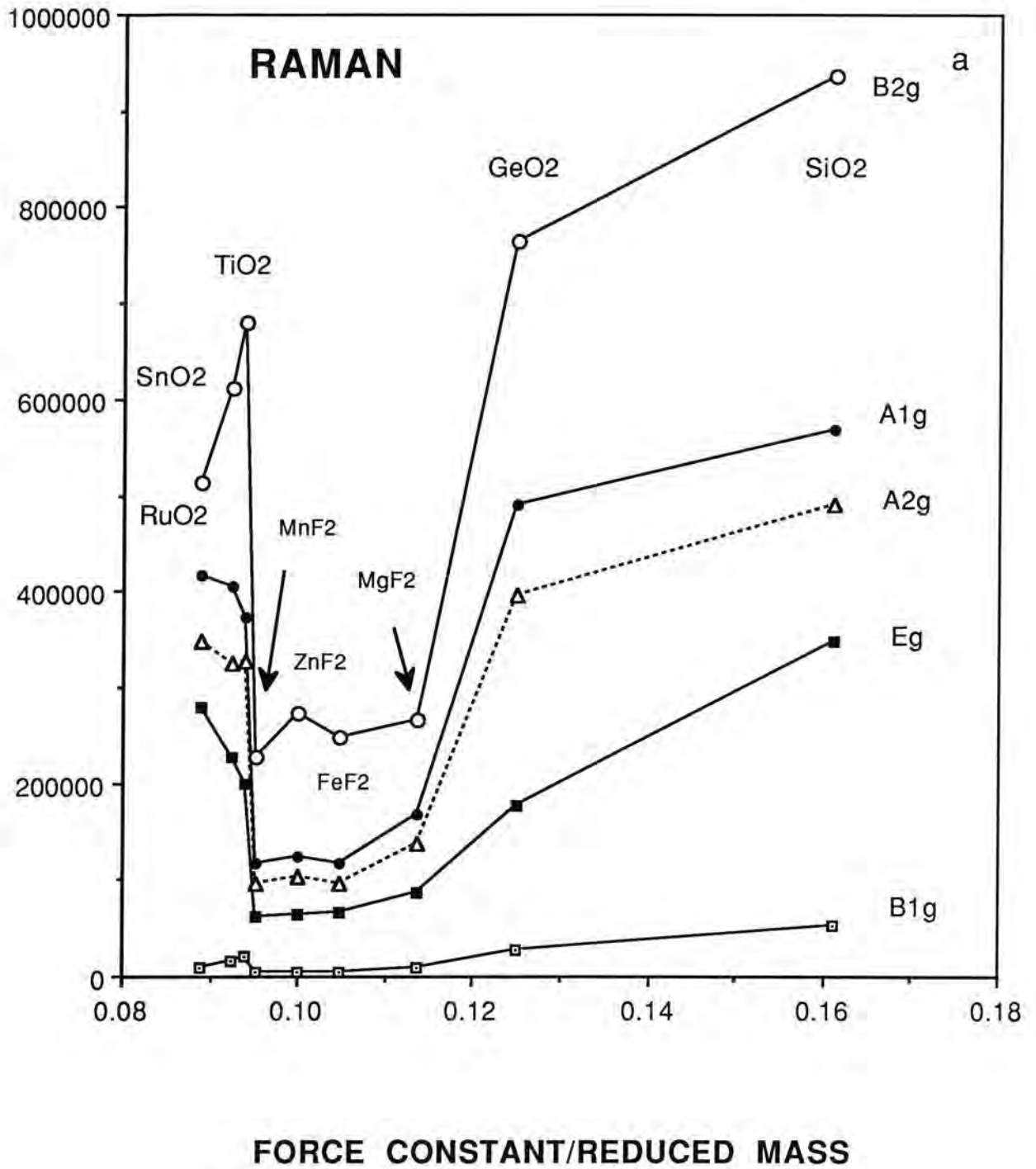
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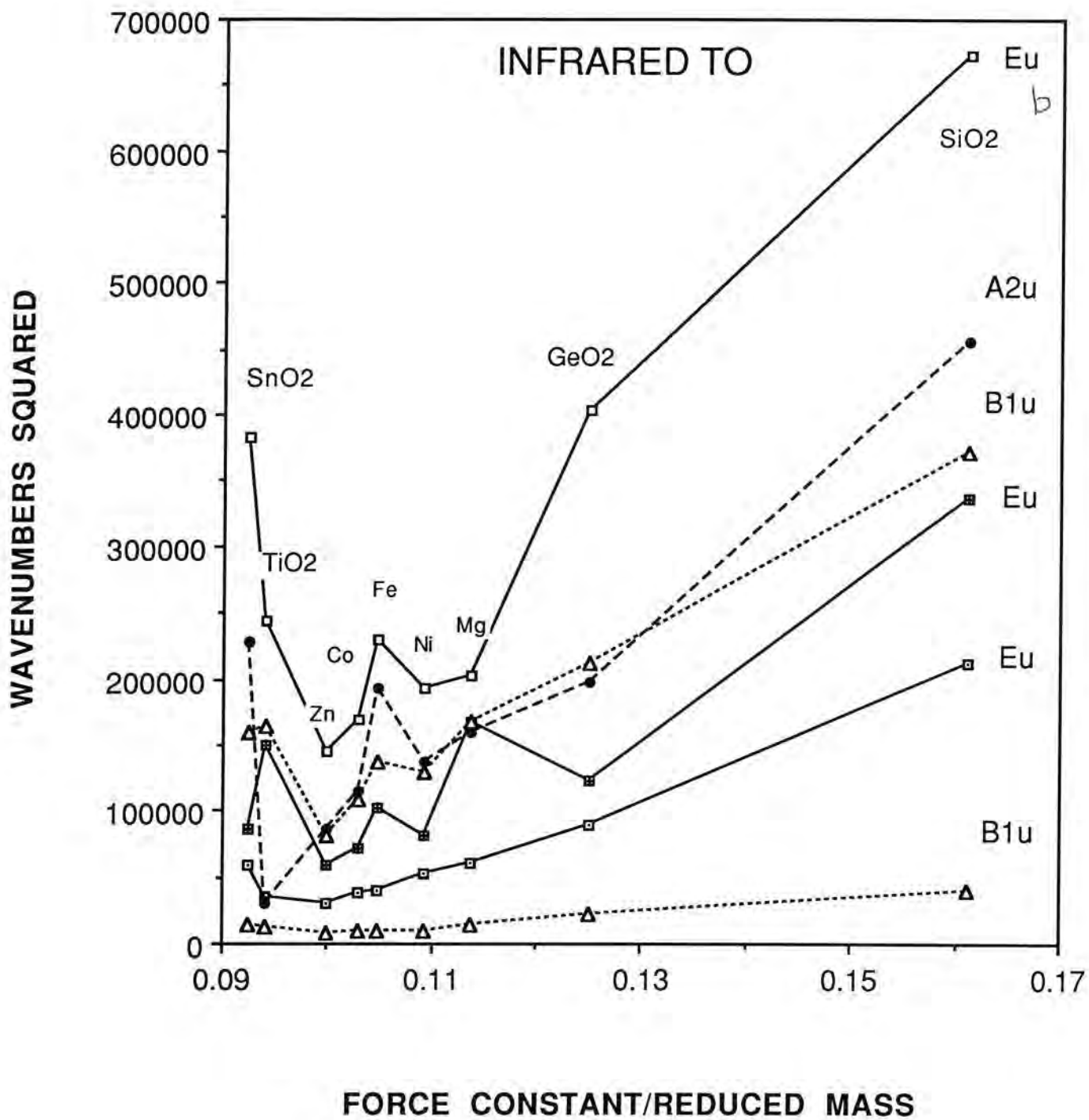
**Fig. 8.** Dependence of the squared of vibrational frequencies on force constant divided by reduced mass. (a) Gerade modes for both oxides and fluorides. (b) Ungerade TO modes. Force constants were calculated from eq. 4. See caption of Fig. 2 for further details.

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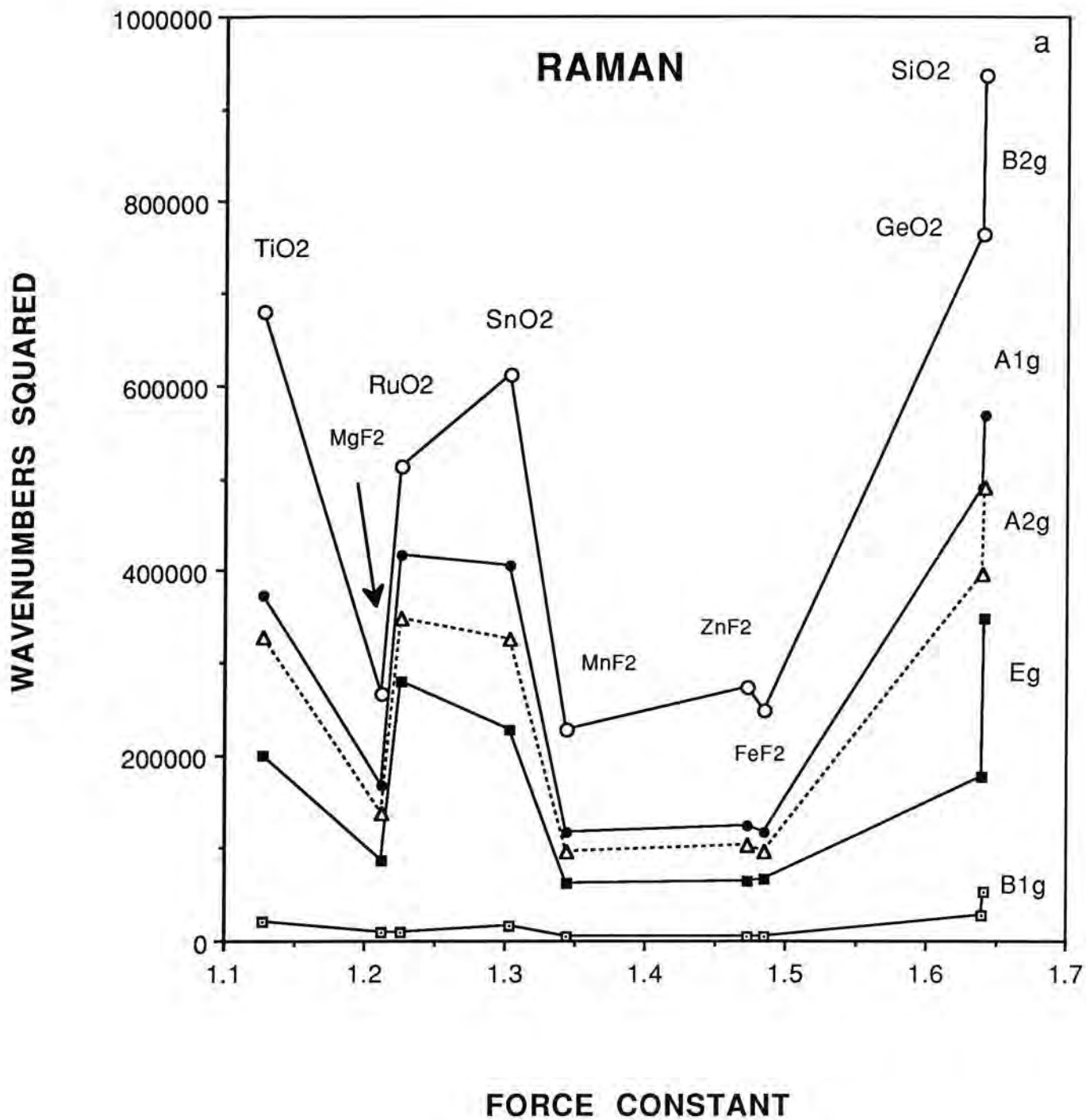
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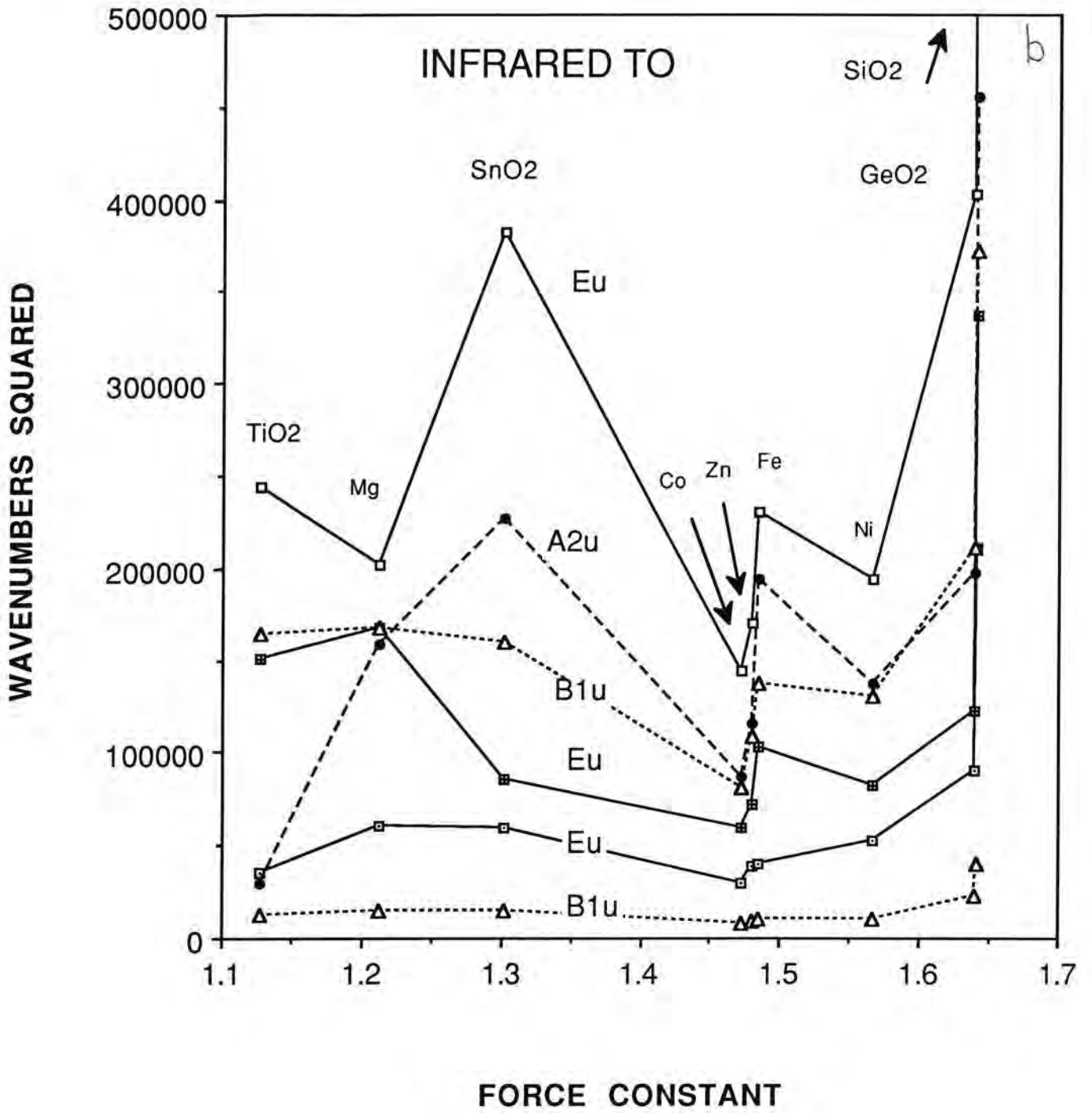
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**Fig. 9.** Dependence of the squared of vibrational frequencies on force constant. (a) Gerade modes for both oxides and fluorides. (b) Ungerade TO modes. Force constants were calculated from eq. 4. See caption of Fig. 2 for further details.



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