

AM-90-443

Infrared spectra of 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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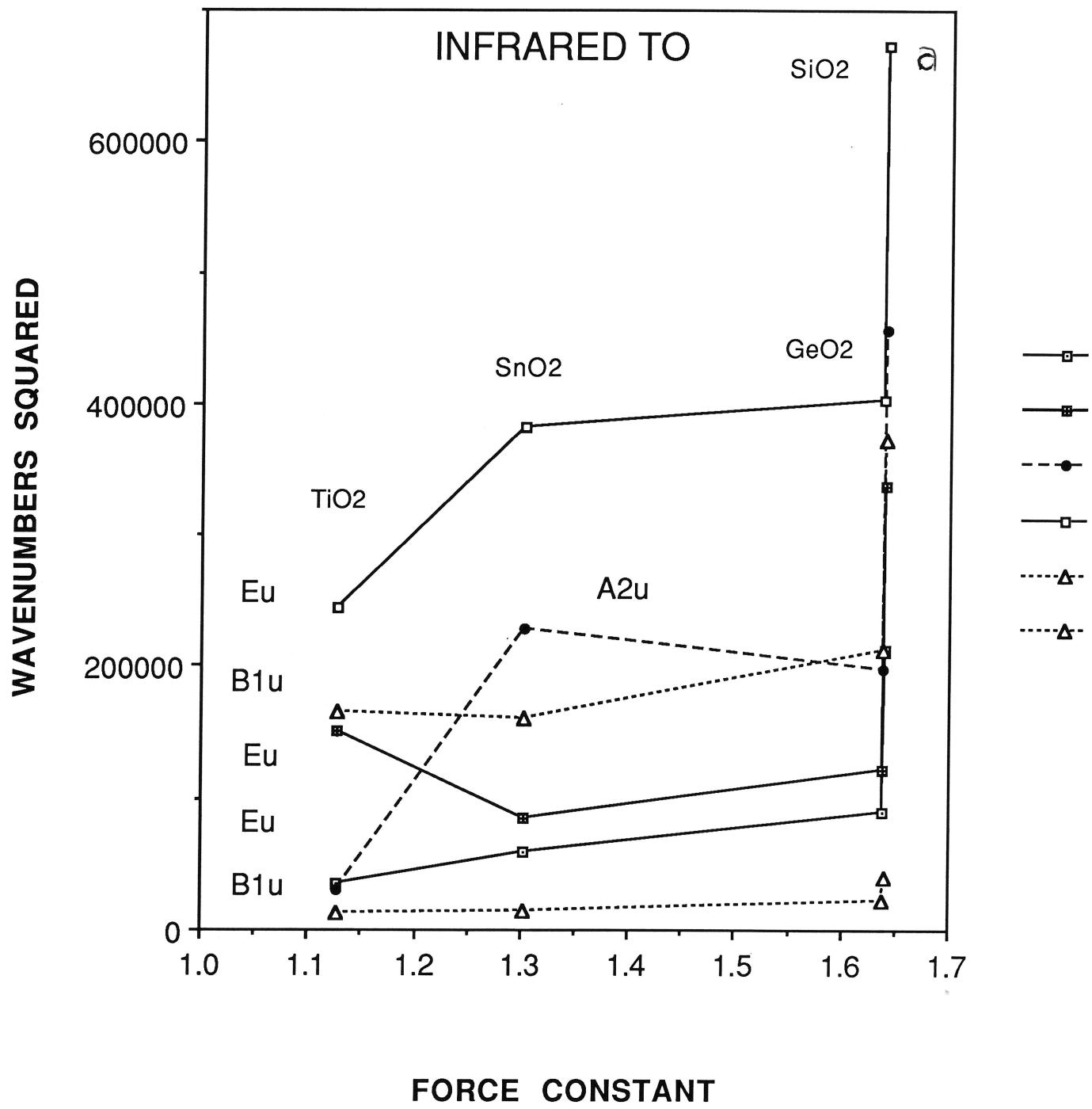
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For deposit: Figures 6

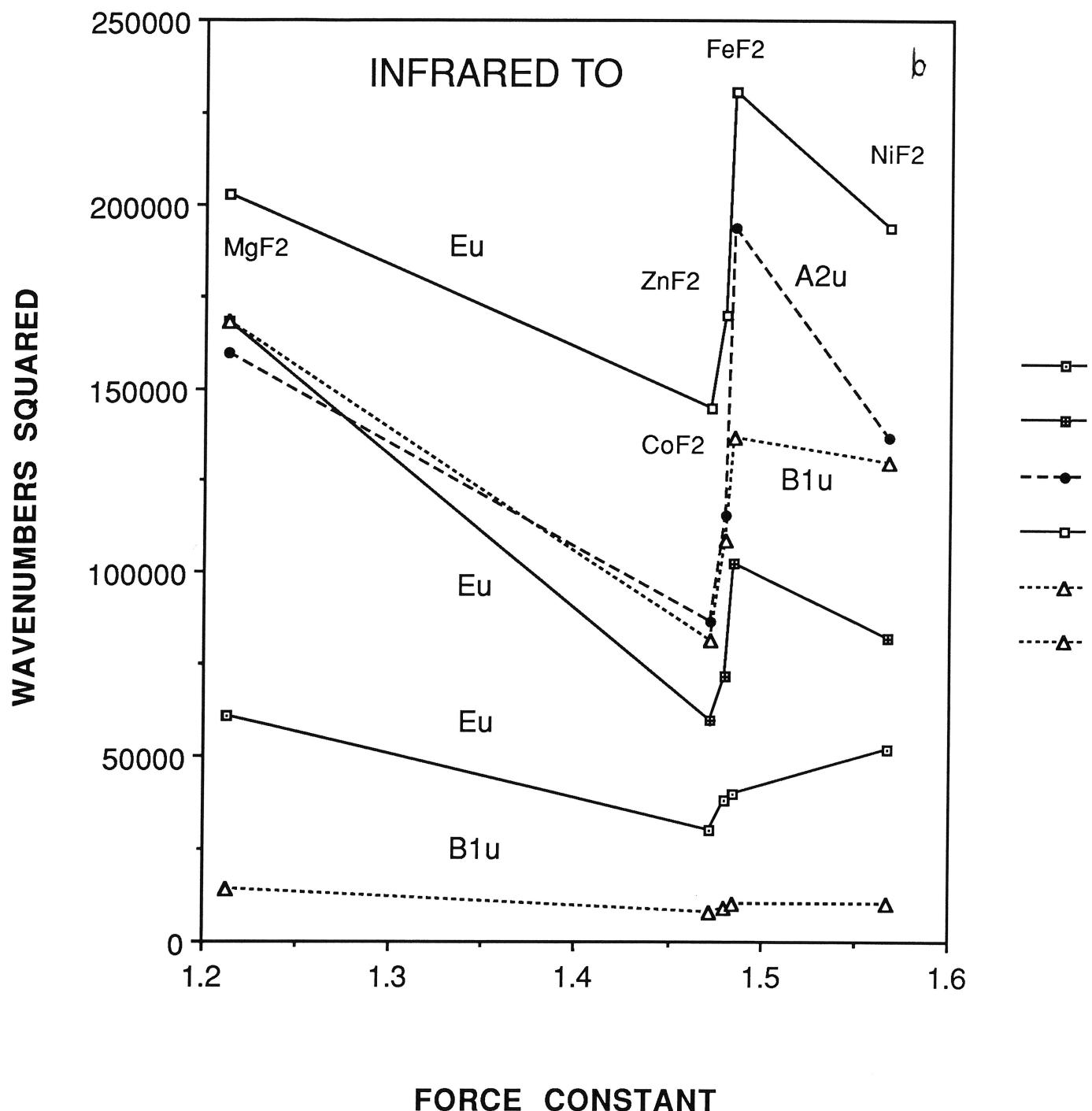
American Mineralogist, 75, 11-12, 1238-1248.

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.



appendix
Fig 6a

Hofmeister et al Fig 6a App



Appendix
Fig 6b

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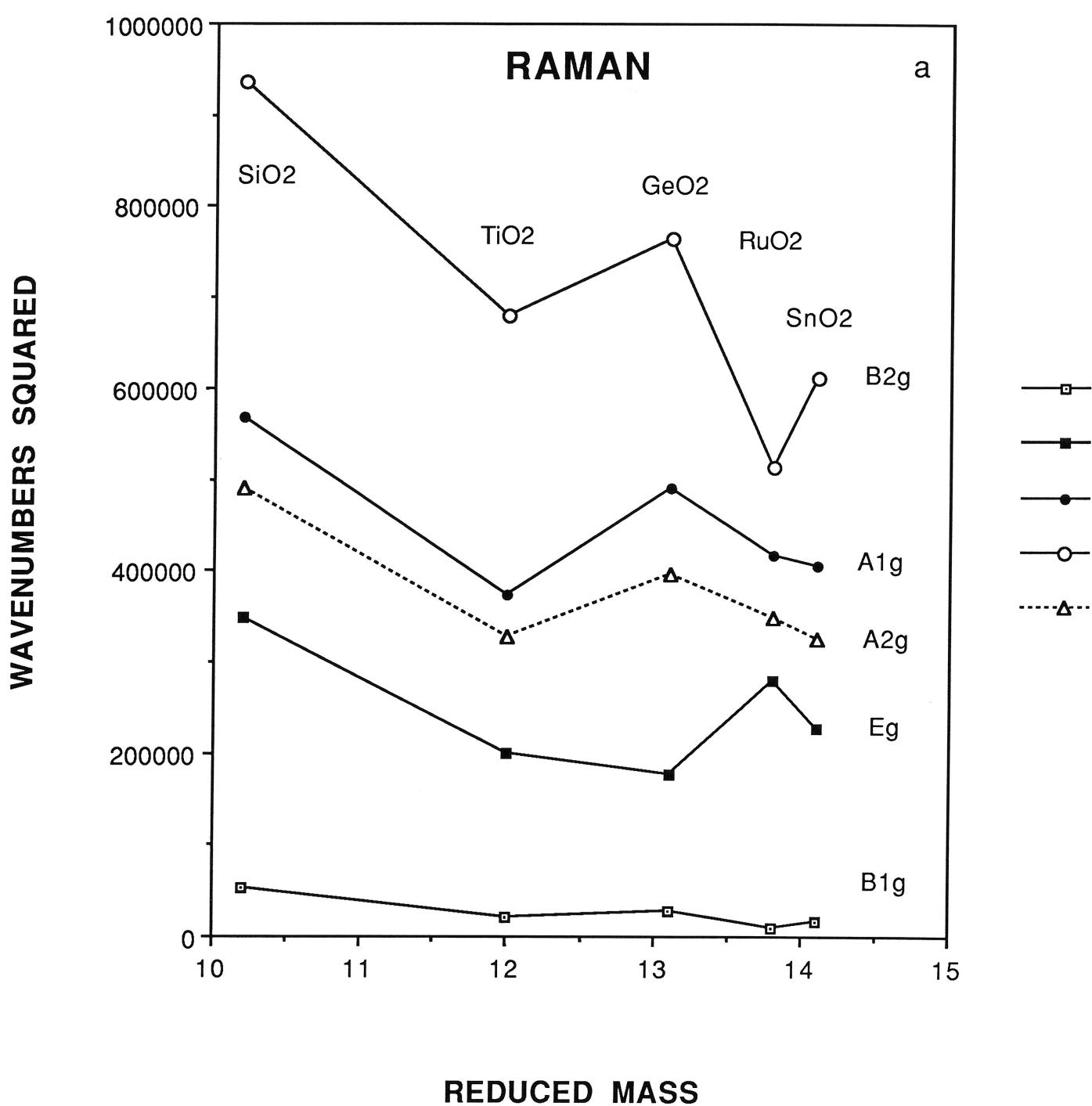
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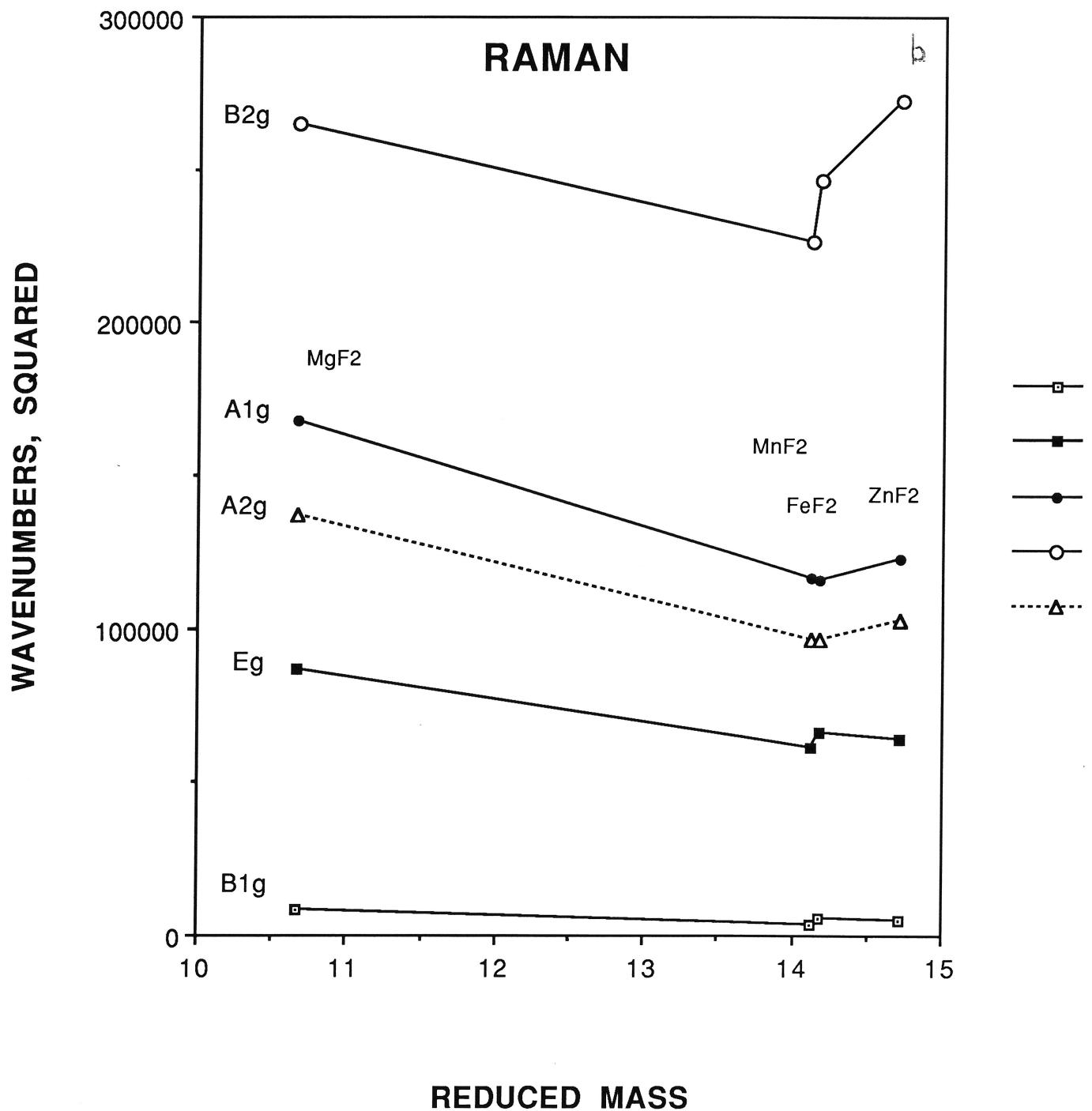
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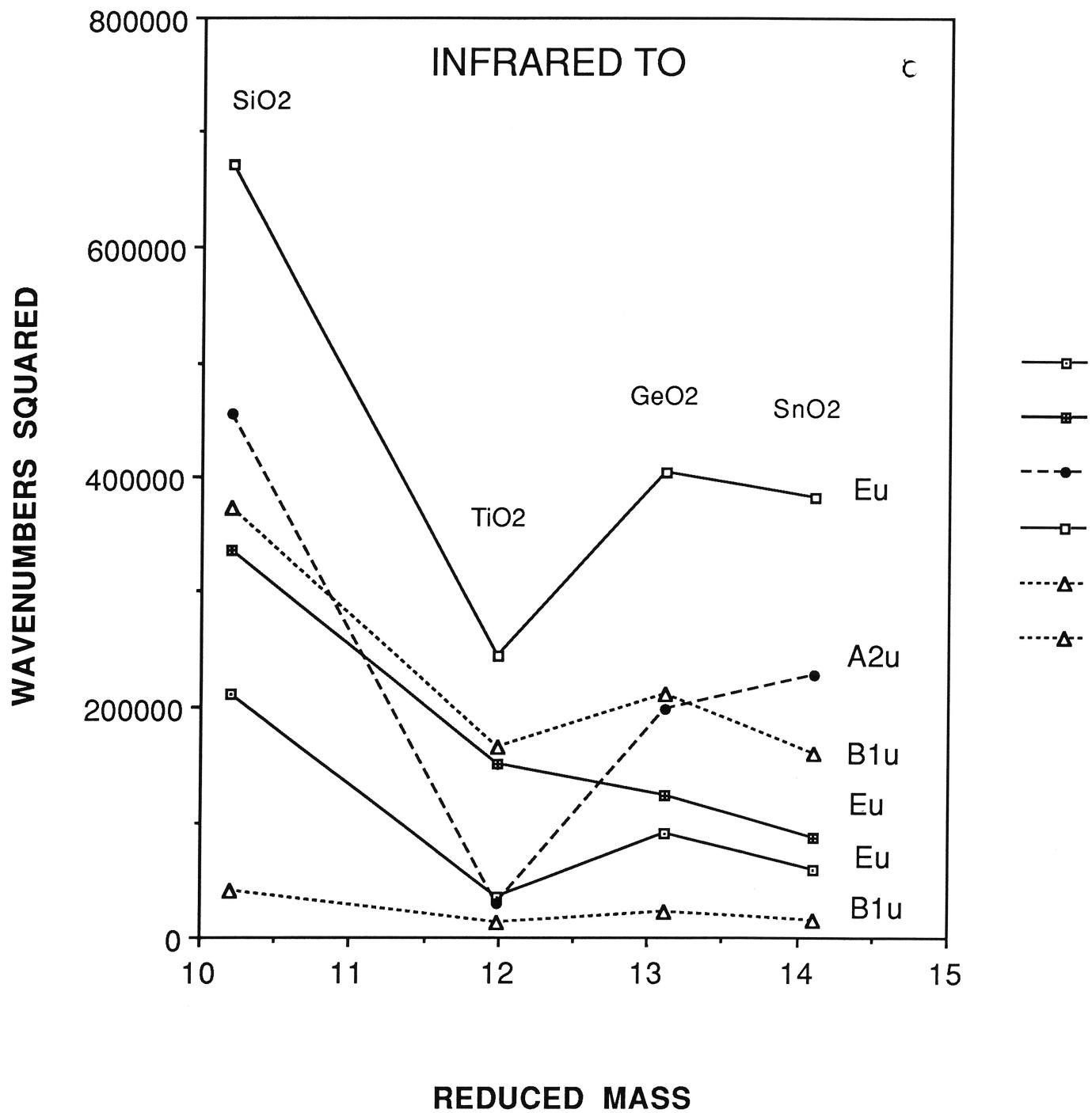
For deposit: Figures 7

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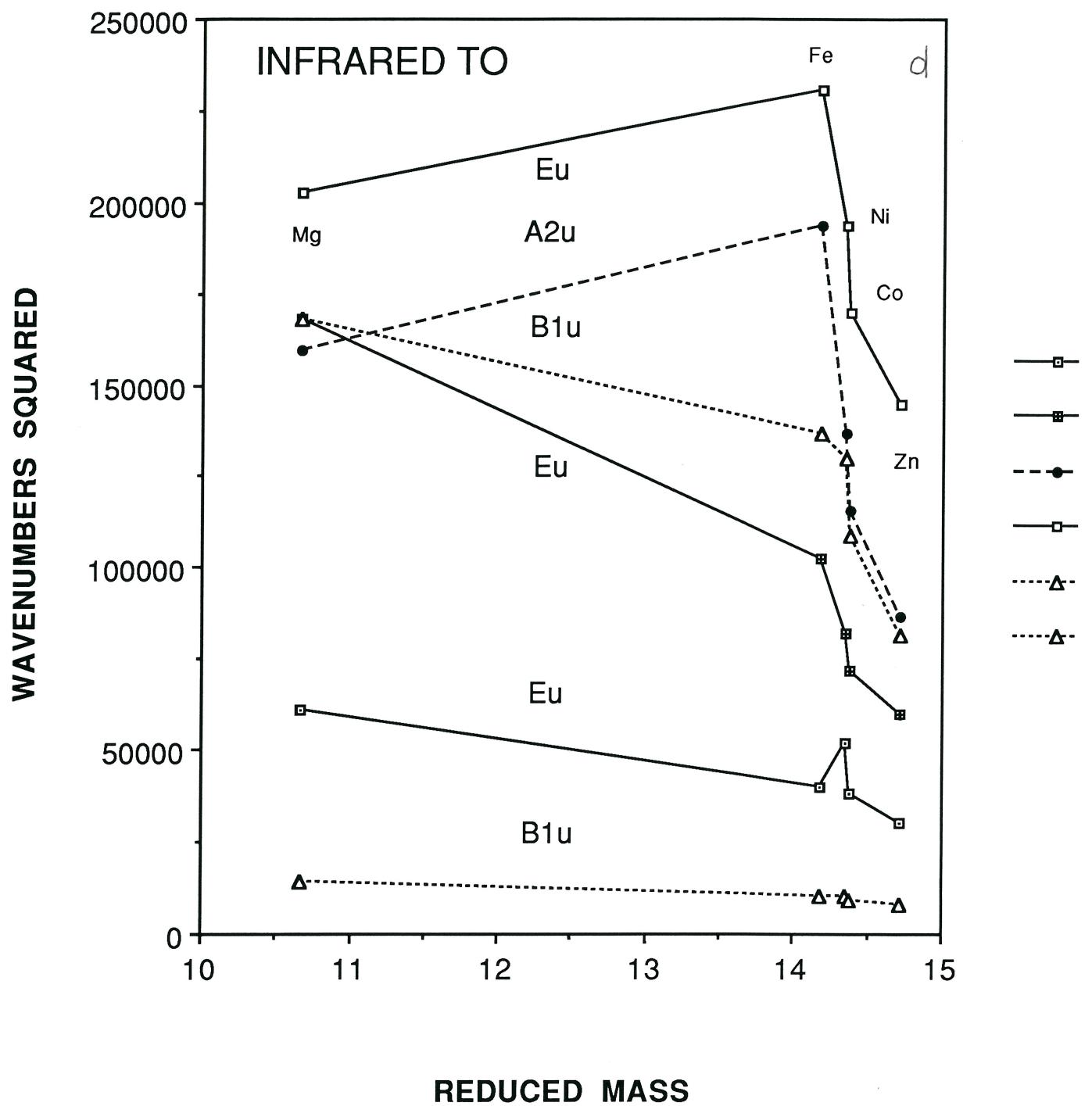
Fig. 7. Dependence of the square of the vibrational frequency on reduced mass. (a) Gerade modes of the oxides. (b) Gerade modes of the fluorides. (c) Ungerade modes of the oxides. (d) Ungerade modes of the fluorides. See caption of Fig. 2 for further details.







appendix 7c
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appendix 7 d
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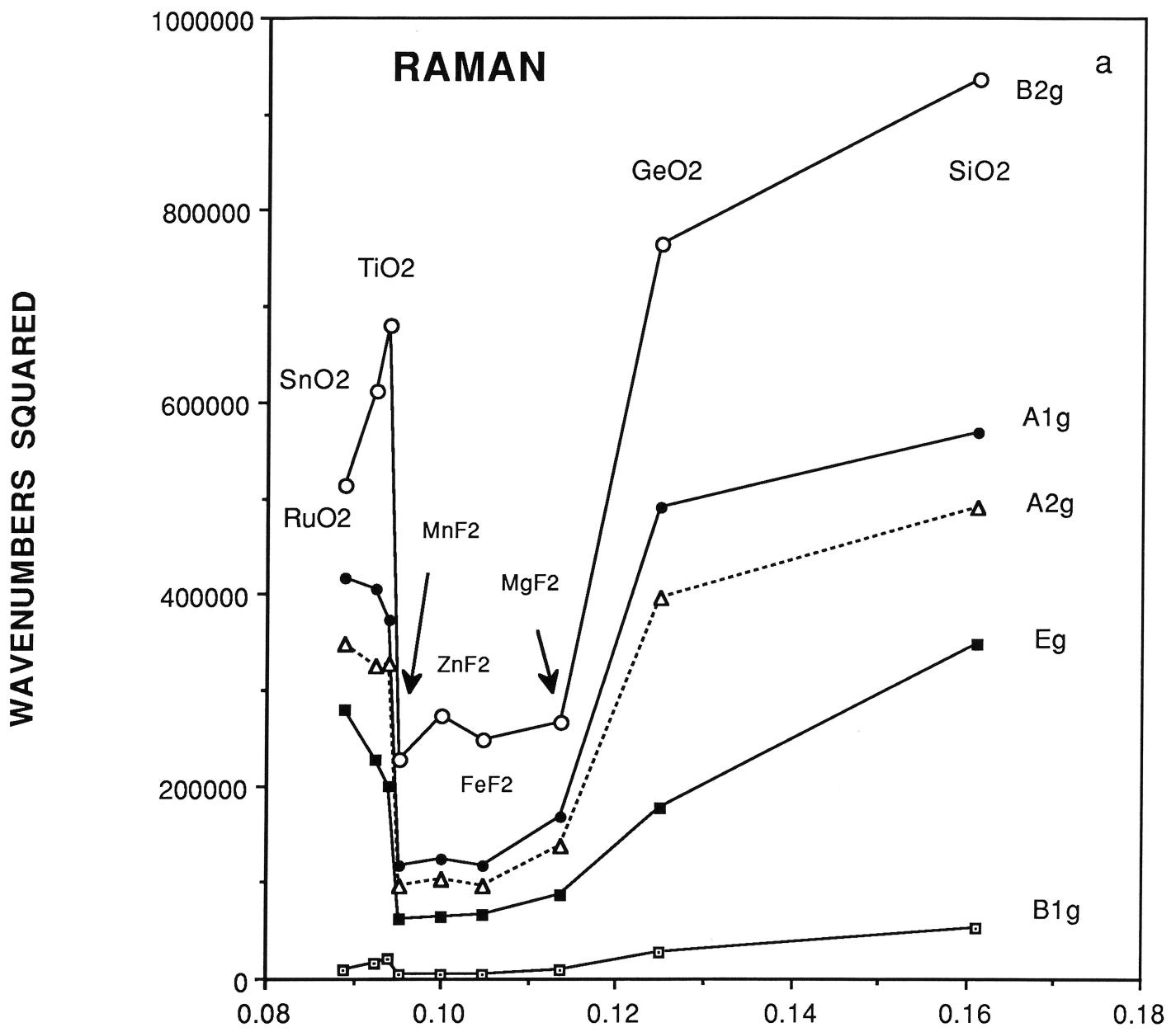
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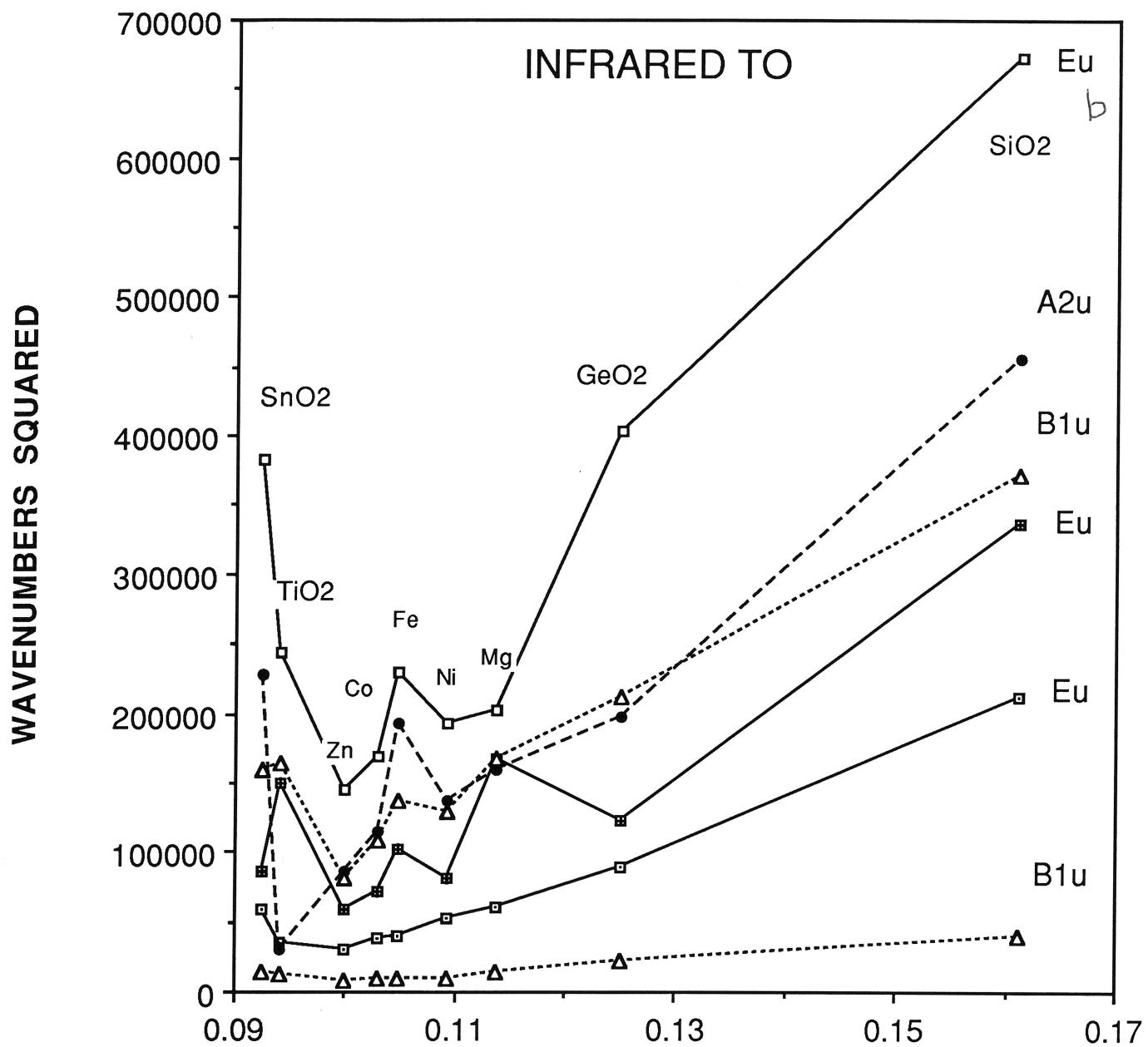
For deposit: Figures 8

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

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.



appendix 8 a
Hofmeister et al.



appendix 8b
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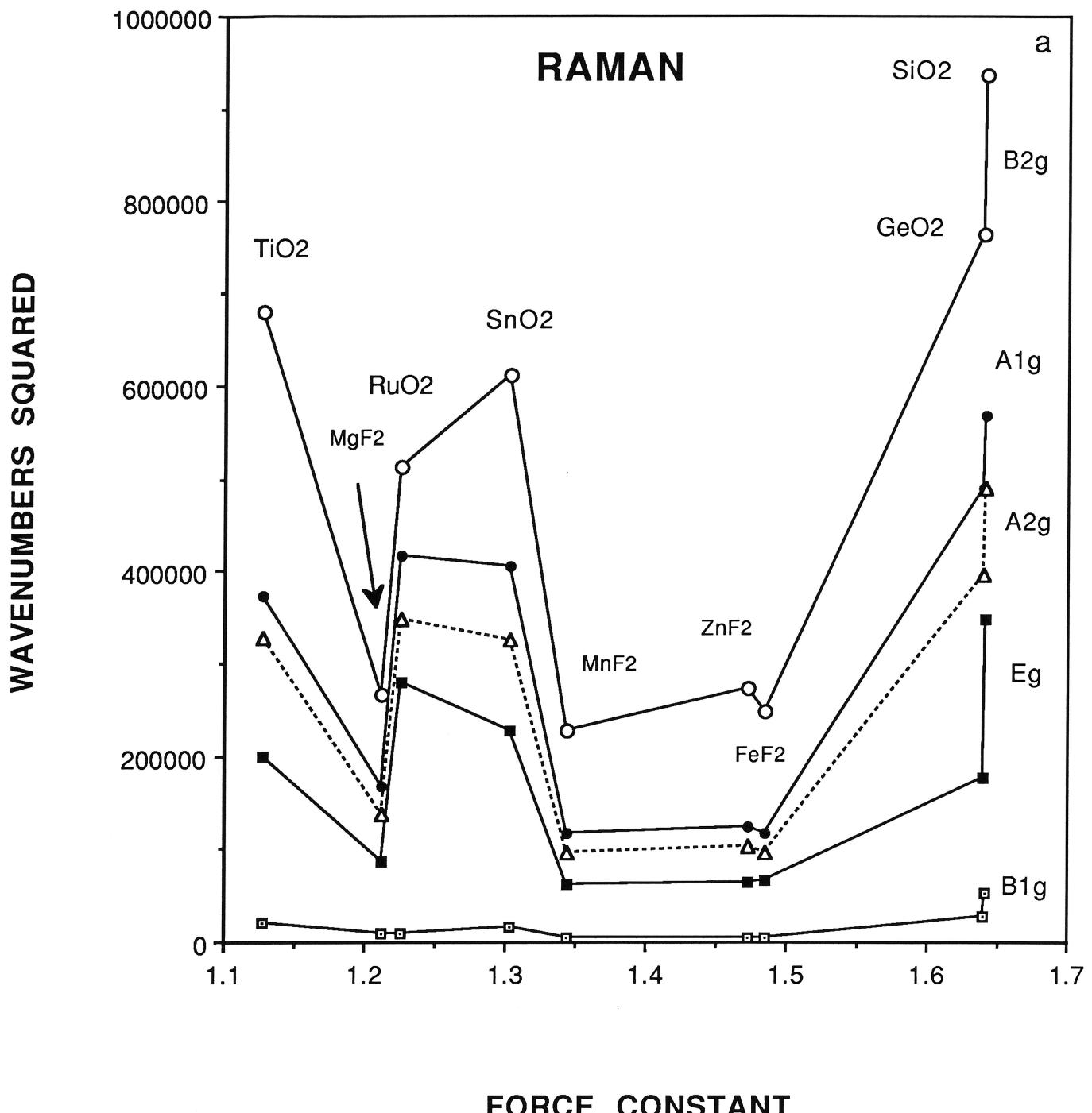
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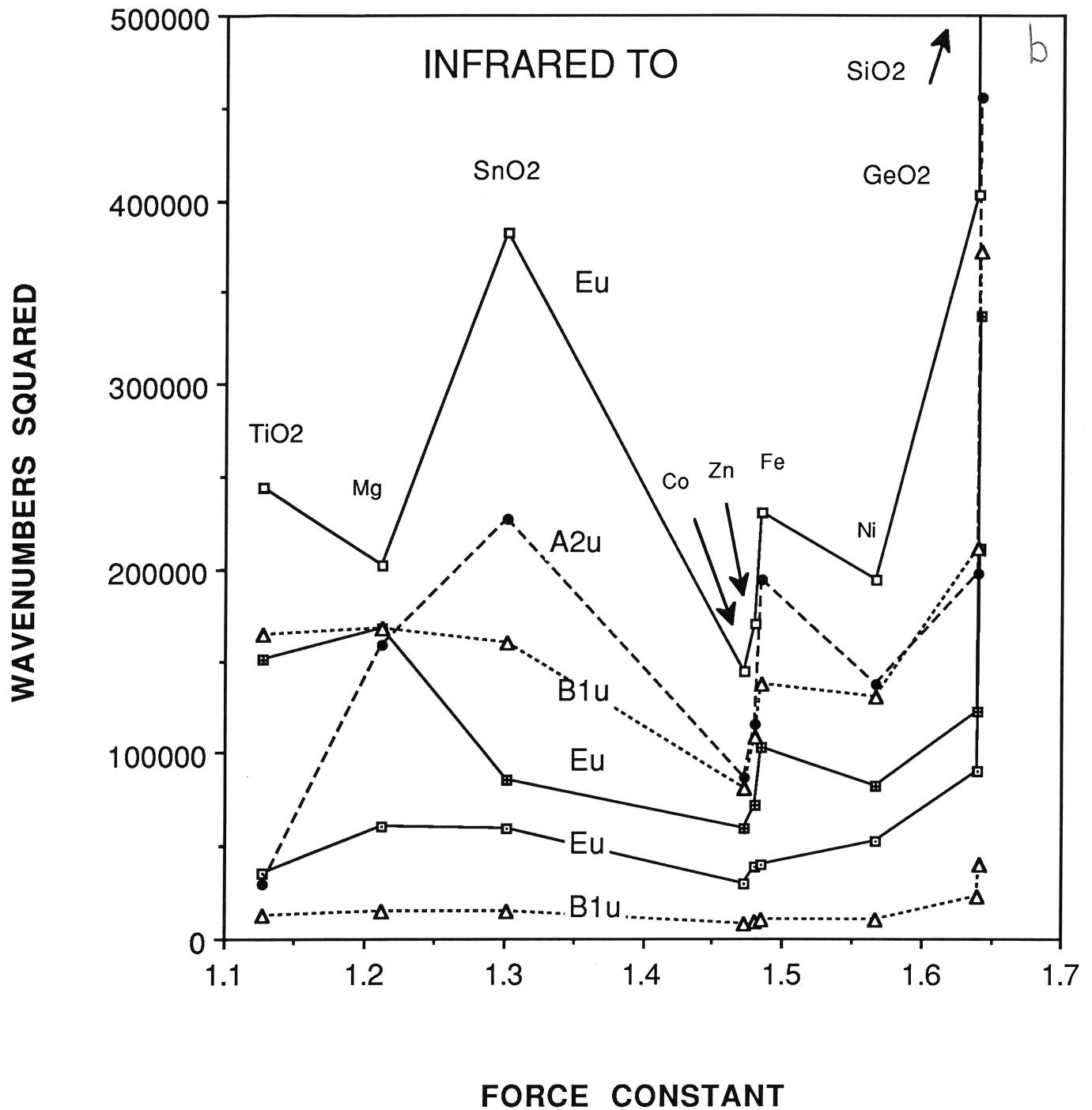
For deposit: Figures 9

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

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.



opposite G a
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Appendix 9b
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