$\{Y_{3-2x}Ca_{2x}\}[Fe_2](Fe_{3-x}V_x)O_{12}$ [89]
$\{Bi_{3-2x}Ca_{2x}\}[Fe_2](Fe_{3-x}V_x)O_{12}$ [89,90]
See also 1, 3, 4, 8, 21, 27.

23. Nb^{5+}: *a* sites only (probably)

$\{Mn_3\}[NbZn](FeGe_2)O_{12}$ [43]	$a = 12.49$ Å
$\{Ca_3\}[NbZr](Ga_3)O_{12}$ [83]	12.595
$\{Ca_3\}[NbHf](Ga_3)O_{12}$ [83]	12.589
$\{Ca_3\}NbTiGa_3O_{12}$ [83]	12.452
$\{Ca_3\}SnNbGa_3O_{12}$ [83]	12.550

24. Ta^{5+}: *a* sites only (probably)

As indicated in my earlier survey[8], it is to be expected that Ta^{5+} with a size only slightly smaller than that of Nb^{5+} would replace Nb^{5+} in like compounds. This has been shown to be the case by Mill' [83]:

$\{Ca_3\}[TaZr](Ga_3)O_{12}$	$a = 12.591$ Å
$\{Ca_3\}[TaHf](Ga_3)O_{12}$	12.584
$\{Ca_3\}TaTiGa_3O_{12}$	12.455
$\{Ca_3\}TaSnGa_3O_{12}$	12.554

Group V*A*

25. P^{5+}: *d* sites only

$\{NaCa_2\}[Mg_2](P_3)O_{12}$ [73]	*a*, not reported

See 2.

26. As^{5+}: *d* sites only

See 2.

27. Sb^{5+}: *a* sites only

$\{Ca_3\}[Sb_{1.5}Fe_{0.5}](Fe_3)O_{12}$ [91]	$a = 12.580$ Å
$\{Ca_3\}[Sb_{1.5}Ga_{0.5}](Ga_3)O_{12}$ [45]	12.472
$\{NaCa_2\}[Sb_2](Fe_3)O_{12}$ [45]	12.600
$\{NaCa_2\}[Sb_2](Ga_3)O_{12}$ [45]	12.480

[89] S. Geller, G. P. Espinosa, H. J. Williams, R. C. Sherwood and E. A. Nesbitt, Ferrimagnetic garnets containing pentavalent vanadium. J. Appl. Physics **35** (1964) 570—572.

[90] G. P. Espinosa and S. Geller, Growth of single-crystal garnets of the system $\{Bi_{3-2x}Ca_{2x}\}[Fe_2](Fe_{3-x}V_x)O_{12}$. J. Appl. Physics **35** (1964) 2551—2552.

[91] S. Geller, H. J. Williams, G. P. Espinosa and R. C. Sherwood, Ferrimagnetic garnets containing pentavalent antimony. J. Appl. Physics 35 (1964) 542—547.

$\{Y_{3-2x}Ca_{2x}\}[Fe_{2-x}Sb_x](Fe_3)O_{12}$ [91,92]
$\{Ca_3\}[Sb_xFe_{2-x}](Fe_{1.5+x}V_{1.5-x})O_{12}$ [91]
$\{Me_{3-4x}Ca_{4x}\}[Sb_xFe_{2-x}](Fe_{3-x}V_x)O_{12}$, Me ≡ Y or Bi [91]

28. Bi^{3+}: *c* sites only

$\{Y_{3-x}Bi_x\}[Fe_2](Fe_3)O_{12}$ [93]

See 13, 22b, 27.

Group VI*B*

29. Cr^{3+}: *a* sites only

See Tables 3 and 4 for examples of end-members.

$\{Y_3\}[Fe_{2-x}Cr_x](Fe_3)O_{12}$ [59,66,82]
$\{Y_3\}[Ga_{2-x}Cr_x](Ga_3)O_{12}$ [66]
$\{Y_{3-x}Ca_x\}[Fe_{2-y}Cr_y](Fe_{3-x}Ge_x)O_{12}$ [55]

Group VII*B*

30a. Mn^{2+}: *c* and *a* sites

$\{CaGd_2\}[Mn_2](Ge_3)O_{12}$ [43]	$a = 12.55$ Å
$\{MnGd_2\}[Mn_2](Ge_3)O_{12}$ [43]	12.482
$\{CaY_2\}[Mn_2](Ge_3)O_{12}$ [43]	12.475
$\{MnY_2\}[Mn_2](Ge_3)O_{12}$ [43]	12.392
$\{Gd_3\}[Mn_2](GaGe_2)O_{12}$ [43]	12.550
$\{Y_3\}[Fe_{1.6}Mn_{0.4}](Fe_{2.6}Si_{0.4})O_{12}$ [55]	12.359
$\{Y_{2.9}Mn_{0.1}\}[Fe_2](Fe_{2.9}Si_{0.1})O_{12}$ [55]	12.368

See Tables 3 and 4 and also 2, 4, 8, 9, 33a, 35.

b. Mn^{3+}: *a* sites

$\{Y_3\}[Mn_{0.1}Fe_{1.9}](Fe_3)O_{12}$ [55]	$a = 12.375$ Å

See Table 4 for end-members.

Group VIII

31a. Fe^{2+}: *c* and *a* sites

$\{Fe_3\}[Al_2](Si_3)O_{12}$ [28]	$a = 11.526$ Å
$\{Y_{2.9}Fe_{0.1}\}[Fe^{2+}_{0.3}Fe^{3+}_{1.7}](Fe^{3+}_{2.6}Si_{0.4})O_{12}$ [55]	12.340
$\{Y_3\}[Fe^{3+}_{2-x}Fe^{2+}_x](Fe^{3+}_{3-x}Si_x)O_{12}$ [55]	

[92] G. Blasse, Magnetic-garnet phases containing pentavalent antimony. Philips Res. Reports 19 (1964) 68—72.

[93] S. Geller, H. J. Williams, G. P. Espinosa, R. C. Sherwood and M. A. Gilleo, The reduction of the preparation temperature of garnets by bismuth substitution. Appl. Physics Letters 3 (1963) 21—22.