论文发表-2011年

英文SCI

已出版：

54. Liu, X., Shieh, S. R., Fleet, M.E., Zhang, L., and He, Q. (2011) Equation of state of carbonated hydroxylapatite at ambient temperature: Significance of carbonate. American Mineralogist, 96, 74-80.

55. Yamazaki, D., Ito, E., Katsura, T., Yoshino, T., Zhai, S., Fukui, H., Shatzkiy, A., Guo, X., Shan, S., Okuchi, T., Tange, Y., Higo, Y., Funakoshi, K. (2011) Phase boundary between perovskite and post-perovskite structures in MnGeO3 determined by in situ X-ray diffraction measurements using sintered diamond anvils. American Mineralogist, 96, 89-92.

56. Zhai, S., Liu, A., Xue, W., Song, Y. (2011) Raman spectroscopic studies of orthophosphates Ba3(PO4)2 and Sr3(PO4)2 under high pressure. Solid State Communications, 151, 276-279.

57. Gu, T., Wu, X., Qin, S., and Dubrovinsky, L. (2011) In situ high-pressure study of FeP: Implications for planetary cores. Physics of Earth and Planetary Interiors, 184, 154-159.

58. Liu, X., Liu, W., He, Q., Deng, L., Wang, H., He, D., and Li, B. (2011) Isotropic thermal expansivity and anisotropic compressibility of ReB2. Chinese Physics Letters, 28, 036401.

59. Zhai, S., Xue, W., Yamazaki, D., Shan, S., Ito, E., Tomioka, N., Shimojuku, A., and Funakoshi, K. (2011) Compressibility of strontium orthophosphate Sr3(PO4)2 at high pressure. Physics and Chemistry of Minerals, 38, 357-361.

60. Liu, X., Fleet, M.E., Shieh, S.R., and He, Q. (2011) Synthetic lead bromapatite: X-ray structure at ambient pressure and compressibility up to about 20 GPa. Physics and Chemistry of Minerals, 38, 397-406.

61. Liu, W., Whitaker, M. L., Liu, Q., Wang, L., Nishiyama, N., Wang, Y., Kubo, A., Duffy, T.S., and Li, B. (2011) Thermal equation of state of CaIrO3 post-perovskite. Physics and Chemistry of Minerals, 38, 407-417.

62. Deng, L., Liu, X., Liu, H., and Zhang, Y. (2011) A first-principles study of the phase transition from Holl-I to Holl-II in the composition KAlSi3O8. American Mineralogist, 96, 974-982.

中文SCI

已出版：

17. 付培歌，郑海飞，(2011) 常温0.1—2GPa压力下文石的拉曼光谱研究。光谱学与光谱分析，31，127-130。

18. 刘锦，孙樯，(2011) 金刚石压腔蛇纹石原位拉曼光谱研究。光谱学与光谱分析，31，398-401。

19. 王世霞，郑海飞，(2011) 金刚石压腔结合拉曼光谱技术进行氢同位素分馏的实验研究。光谱学与光谱分析，31，691-695。

20. 赵永红，白骏天，李小凡，贾科，陈辉，(2011) 活动断裂带附近地下水中的氢同位素变化与地震关系研究。岩石学报，27，1909-1915。

21. 陈晓利，李杨，洪启宇，赵永红，(2011) 地震作用下边坡动力响应的数值模拟研究。岩石学报，27，1899-1908。

22. 刘川江，郑海飞，(2011) 常温0—1 GPa压力下重晶石的拉曼光谱研究。光谱学与光谱分析，31，1529-1532。

23. 王世霞，郑海飞，(2011) 方解石高压相变的拉曼光谱研究。光谱学与光谱分析，31，2117-2119。

NON-SCI

已出版：

14. Zhai, S., and Ito, E. (2011) Recent advances of high-pressure generation in the multianvil apparatus using sintered diamond anvils. Geoscience Frontiers, 2, 101-106.

15. Wu, X., Qin, S., and Dubrovinsky, L. (2011) Investigation into high-pressure behaviour of MnTiO3: X-ray diffraction and Raman spectroscopy with diamond anvil cells, Geoscience Frontiers, 2, 107-114.

16. 杨晶，巫翔，秦善，(2011) (Fe0.03Ni0.97)8(Si0.79P0.21)3的等温状态方程研究。高压物理学报，25，275-281。

17. Zheng, H., Qiao, E., Yang, Y., and Duan, T. (2011) Determination of inner pressure for fluid inclusions by Raman spectroscopy and its application. Geoscience Frontiers, 2, 403-407.

18. 杨晶，顾婷婷，朱峰，巫翔，秦善，刘景，李晓东，(2011) 冰晶石(Na3AlF6)的高压研究:同步辐射X射线衍射和第一性原理计算。核技术，6，406-410。

19. 赵永红，李小凡，邓凯，方晨，(2011) 三峡树坪滑坡动力学的有限元模拟。中国力学大会-2011暨钱学森诞辰100周年纪念大会，2011年8月，哈尔滨。

63. Hu, X., Liu, X., He, Q., Wang, H., Qin, S., Ren, L., Wu, C., and Chang, L. (2011) Thermal expansion of andalusite and sillimanite at ambient pressure: a powder X-ray diffraction study up to 1000oC. Mineralogical Magazine, 75, 363-374.

64. Mookherjee, M., Nakajima, Y., Steinle-Neumann, G., Wu, X. (2011) High pressure behavior of iron carbide (Fe7C3) at inner core conditions. Journal of Geophysical Research, 116, B04201.

65. Fleet, M.E., Liu, X., and Liu, X. (2011) Orientation of channel carbonate ions in apatite: effect of pressure and composition. American Mineralogist, 96, 1148-1157.

66. Zhai, S., Xue, W., Lin, C., Wu, X., Ito, E. (2011) Raman spectra and X-ray diffraction of tuite at various temperatures. Physics and Chemistry of Minerals, 38, 639-646.

67. Liu, X., He, Q., Deng, L., Zhai, S., Hu, X., Li, B., Zhang, L., Chen, Z., Liu, Q. (2011) Equation of state of CAS phase to pressure of the uppermost lower mantle at ambient temperature. Science China D: Earth Sciences, 54, 1394-1399.

68. Wu, X., Qin, S., Gu, T., Yang, J., and Manthilake, G. (2011) Structural and elastic properties of CaGeO3 perovskite at high pressures. Physics of Earth and Planetary Interiors, 189, 151-156.

69. Zhang, Q., Wu, X., and Qin, S. (2011) In situ high-pressure X-ray diffraction experiments and ab initio calculations of Co2P. Chinese Physics B, 20, 066101.

70. Sun, Q., and Qin, C. (2011) Raman OH stretching band of water as an internal standard to determine carbonate concentrations. Chemical Geology, 283, 274-278.

71. Wang, X., Chou, I., Hu, W., Burruss, R., Sun, Q., and Song, Y. (2011) Raman spectroscopic measurements of CO2 density: Experimental calibration with high-pressure optical cell (HPOC) and fused silica capillary capsule (FSCC) with application to fluid inclusion observations. Geochimica et Cosmochimica Acta, 75, 4080-4093.

72. He, Q., Liu, X., Hu, X., Li, S., and Wang, H. (2011) Solid solution between lead fluorapatite and lead fluorvanadate apatite: mixing behavior, Raman feature and thermal expansivity. Physics and Chemistry of Minerals, 38, 741-752.

73. Huang, H., Fei, Y., Cai, L., Jing, F., Hu, X., Xie, H., Zhang, L., and Gong, Z. (2011) Evidence for an oxygen-depleted liquid outer core of the Earth. Nature, 479, 513-516.

74. Zhang, Q., Yang, J., Wu, X., and Qin, S. (2011) Phase stability and elasticity of Sc2O3 at high pressure. The European Physical Journal, B84, 11-16.

75. Wu, X., Mookherjee, M., Gu, T., and Qin, S. (2011) Elasticity and anisotropy of iron-nickel phosphides at high pressures. Geophysical Research Letters, 38, L20301.