Table 5-6 elemental and Sr-Nd isotopic analyses for some early Paleozoic gneissic granites in the Wuyi, Wugong domains

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Samples | JX04 | JX14 | JX35 | JX36 | JX37 | JX39 | JX52 | JX70 | JX71 | JX66-5 | CQ3-1 | CQ3-2 | JX62 | JX63 |
| rock type | Tm-MG | Bi-SG | Bi-MG | Tm-MG | Tm-MG | Bi-MG | Tm-MG | Bi-MG | Bi-MG | Bi-MG | Tm-MG | Tm-MG | Bi-MG | Bi-MG |
| pluton | Fangtuan | Yujiacun | Tangwan | | | Shazhou | Fufang | Tangying | | Cunqian | Tancheng | | Wugongshan | |
| SiO2 | 73.30 | 71.75 | 70.16 | 73.13 | 70.70 | 70.73 | 72.16 | 68.93 | 71.11 | 67.53 | 70.61 | 71.66 | 72.45 | 72.24 |
| TiO2 | 0.22 | 0.37 | 0.32 | 0.22 | 0.39 | 0.38 | 0.36 | 0.51 | 0.39 | 0.48 | 0.36 | 0.28 | 0.31 | 0.30 |
| Al2O3 | 14.67 | 14.47 | 15.38 | 14.23 | 15.03 | 15.21 | 13.81 | 15.77 | 14.61 | 16.17 | 14.89 | 15.03 | 13.79 | 13.95 |
| Fe2O3 | 0.36 | 0.30 | 0.48 | 0.39 | 0.69 | 0.47 | 0.70 | 0.67 | 0.31 | 0.50 | 0.44 | 0.27 | 0.68 | 0.72 |
| FeO | 1.12 | 1.48 | 2.02 | 1.05 | 1.93 | 1.91 | 2.38 | 2.45 | 1.92 | 2.32 | 1.90 | 1.60 | 1.66 | 1.54 |
| MnO | 0.028 | 0.013 | 0.07 | 0.045 | 0.059 | 0.047 | 0.08 | 0.06 | 0.05 | 0.06 | 0.06 | 0.06 | 0.064 | 0.060 |
| MgO | 0.43 | 0.74 | 1.05 | 0.54 | 1.19 | 1.05 | 1.19 | 1.21 | 0.90 | 1.12 | 0.89 | 0.71 | 1.20 | 1.17 |
| CaO | 1.18 | 0.93 | 1.37 | 1.00 | 1.31 | 1.37 | 1.09 | 1.75 | 1.91 | 2.50 | 2.21 | 2.12 | 1.81 | 1.48 |
| Na2O | 3.01 | 2.46 | 3.54 | 2.94 | 3.08 | 3.35 | 3.09 | 3.46 | 2.87 | 3.40 | 3.17 | 3.23 | 2.87 | 2.69 |
| K2O | 4.34 | 6.36 | 3.79 | 4.57 | 4.08 | 3.89 | 3.90 | 3.69 | 4.03 | 4.32 | 3.94 | 3.67 | 3.93 | 4.65 |
| P2O5 | 0.11 | 0.26 | 0.25 | 0.26 | 0.19 | 0.22 | 0.07 | 0.21 | 0.18 | 0.27 | 0.33 | 0.25 | 0.096 | 0.10 |
| LOI | 0.83 | 0.53 | 0.89 | 0.94 | 0.77 | 0.76 | 0.79 | 0.85 | 0.98 | 0.72 | 0.78 | 0.73 | 0.82 | 0.65 |
| Total | 99.89 | 99.86 | 99.91 | 99.93 | 99.90 | 99.91 | 99.86 | 99.90 | 99.91 | 99.82 | 99.78 | 99.79 | 99.93 | 99.90 |
| Li | 52.7 | 14.7 | 129 | 88.7 | 90.2 | 28.4 | 62.3 | 69.29 | 36.90 | 74.8 | 88.7 | 78.6 | 78.9 | 71.6 |
| Cs | 11.2 | 3.52 | 24.3 | 9.61 | 17.6 | 5.59 | 12.0 | 21.0 | 13.9 | 12.0 | 10.13 | 10.13 | 16.5 | 14.3 |
| Rb | 167 | 167 | 242 | 224.0 | 185.2 | 141.1 | 201 | 194 | 179 | 145 | 170 | 138 | 129.2 | 237.9 |
| Sr | 97.8 | 152 | 119 | 90.2 | 125 | 119 | 181 | 145 | 164 | 395 | 202 | 173 | 84.0 | 132 |
| Ba | 560 | 747 | 366 | 363 | 469 | 415 | 741 | 472 | 492 | 1050 | 478 | 388 | 275 | 566 |
| Nb | 8.75 | 6.77 | 17.40 | 13.6 | 11.2 | 13.4 | 15.00 | 18.50 | 13.5 | 12.1 | 15.00 | 13.4 | 10.8 | 11.7 |
| Ta | 0.89 | 0.321 | 1.81 | 1.16 | 0.99 | 0.94 | 1.77 | 1.81 | 1.23 | 1.28 | 1.60 | 1.21 | 1.17 | 1.43 |
| Zr | 129 | 199 | 103.0 | 93.8 | 113 | 145 | 176 | 175 | 150 | 183 | 130 | 120 | 107 | 123 |
| Hf | 3.99 | 5.73 | 3.33 | 3.02 | 3.51 | 4.42 | 6.11 | 4.69 | 4.06 | 4.93 | 5.80 | 3.37 | 3.73 | 3.71 |
| Ga | 16.3 | 24.1 | 19.70 | 18.5 | 17.0 | 20.2 | 18.00 | 20.40 | 21.2 | 23.4 | 20.29 | 20.3 | 15.5 | 17.8 |
| Th | 17.5 | 31.7 | 8.54 | 7.34 | 9.01 | 9.51 | 7.84 | 12.62 | 11.1 | 12.6 | 12.14 | 9.31 | 17.8 | 14.5 |
| U | 2.20 | 4.66 | 4.45 | 4.03 | 1.89 | 3.51 | 1.29 | 3.99 | 3.65 | 3.47 | 1.59 | 1.54 | 4.56 | 2.96 |
| Pb | 39.22 | 53.4 | 37.50 | 50.16 | 37.97 | 42.68 | 24.60 | 32.82 | 34.1 | 26.8 | 26.58 | 28.4 | 29.96 | 44.40 |
| B | 11.3 | 6.79 | 78.95 | 78.5 | 25.8 | 7.23 | 7.28 | 18.62 | 43.24 | 10.5 |  |  | 11.3 | 11.5 |
| F | 142 | 250 | 708 | 349 | 540 | 415 | 540 | 688 | 623 | 604 | 700 | 605 | 483 | 366 |
| Y | 6.10 | 10.2 | 11.00 | 10.7 | 11.9 | 9.92 | 10.7 | 15.70 | 12.9 | 15.20 | 13.08 | 13.60 | 21.6 | 22.5 |
| La | 36.3 | 54.5 | 20.70 | 17.2 | 20.9 | 27.5 | 24.2 | 35.40 | 29.1 | 39.70 | 31.05 | 24.00 | 23.7 | 31.1 |
| Ce | 60.3 | 122 | 43.30 | 35.9 | 47.0 | 56.8 | 43.9 | 64.90 | 56.3 | 71.90 | 58.14 | 40.30 | 46.3 | 56.2 |
| Pr | 6.24 | 14.7 | 5.01 | 4.27 | 5.02 | 6.49 | 4.97 | 7.63 | 6.4 | 8.14 | 6.41 | 4.98 | 5.67 | 6.99 |
| Nd | 21.6 | 54.5 | 16.70 | 16.1 | 18.6 | 24.5 | 17 | 28.30 | 23 | 29.40 | 23.64 | 17.60 | 21.1 | 25.6 |
| Sm | 4.06 | 11.3 | 3.56 | 3.75 | 3.99 | 5.00 | 2.94 | 5.36 | 4.41 | 5.27 | 4.07 | 3.29 | 4.73 | 5.09 |
| Eu | 0.86 | 1.18 | 0.74 | 0.72 | 0.89 | 0.92 | 0.664 | 1.08 | 0.929 | 1.29 | 0.82 | 0.60 | 0.71 | 0.85 |
| Gd | 3.19 | 8.11 | 3.21 | 3.16 | 3.28 | 3.91 | 2.64 | 4.49 | 3.68 | 4.36 | 3.39 | 2.87 | 4.05 | 4.31 |
| Tb | 0.40 | 0.775 | 0.49 | 0.51 | 0.51 | 0.54 | 0.351 | 0.62 | 0.478 | 0.60 | 0.49 | 0.42 | 0.64 | 0.70 |
| Dy | 1.63 | 2.61 | 2.39 | 2.39 | 2.57 | 2.41 | 1.81 | 3.06 | 2.33 | 3.14 | 2.57 | 2.28 | 3.67 | 4.09 |
| Ho | 0.24 | 0.356 | 0.400 | 0.38 | 0.44 | 0.38 | 0.355 | 0.55 | 0.436 | 0.53 | 0.46 | 0.43 | 0.69 | 0.75 |
| Er | 0.66 | 0.74 | 1.07 | 0.97 | 1.21 | 1.04 | 1.01 | 1.54 | 1.19 | 1.47 | 1.18 | 1.19 | 1.98 | 2.19 |
| Tm | 0.10 | 0.090 | 0.17 | 0.14 | 0.18 | 0.15 | 0.165 | 0.29 | 0.184 | 0.26 | 0.17 | 0.18 | 0.38 | 0.42 |
| Yb | 0.54 | 0.489 | 1.06 | 0.85 | 1.12 | 0.89 | 1.12 | 1.63 | 1.17 | 1.39 | 1.05 | 1.10 | 2.17 | 2.29 |
| Lu | 0.08 | 0.082 | 0.15 | 0.12 | 0.16 | 0.14 | 0.197 | 0.25 | 0.195 | 0.19 | 0.15 | 0.17 | 0.33 | 0.35 |
| t(Zr)/℃ | 767 | 786 | 746 | 740 | 755 | 775 | 792 | 786 | 767 | 768 | 748 | 749 | 738 | 749 |
| 87Rb/86Sr | 4.932 | 3.179 | 5.884 | 7.182 |  | 3.428 | 3.213 |  | 3.158 | 1.062 |  | 2.308 | 4.444 |  |
| 147Sm/144Nd | 0.1137 | 0.1254 | 0.1287 | 0.1411 |  | 0.1234 | 0.1046 |  | 0.1159 | 0.1113 |  | 0.1130 | 0.1349 |  |
| 87Sr/86Sr | 0.744814 | 0.738509 | 0.753889 | 0.759983 |  | 0.739273 | 0.733888 |  | 0.734230 | 0.716661 |  | 0.727459 | 0.748863 |  |
| ±2σ | 0.000005 | 0.000005 | 0.000012 | 0.000006 |  | 0.000006 | 0.000005 |  | 0.000005 | 0.000006 |  | 0.000005 | 0.000007 |  |
| 143Nd/144Nd | 0.512049 | 0.512021 | 0.511947 | 0.511934 |  | 0.511902 | 0.511682 |  | 0.511960 | 0.512015 |  | 0.511982 | 0.512027 |  |
| ±2σ | 0.000003 | 0.000003 | 0.000003 | 0.000003 |  | 0.000004 | 0.000003 |  | 0.000003 | 0.000003 |  | 0.000003 | 0.000005 |  |
| t(Ma) | 443.1 | 438.2 | 444.7 | 442 |  | 443.4 | 443 |  | 444 | 442.6 |  | 442.7 | 453.1 |  |
| (87Sr/86Sr)ⅰ | 0.71368 | 0.71867 | 0.71661 | 0.71477 |  | 0.71762 | 0.71361 |  | 0.71426 | 0.70996 |  | 0.71290 | 0.72018 |  |
| εNd(t) | -6.79 | -8.06 | -9.62 | -10.61 |  | -10.22 | -13.45 |  | -8.66 | -7.33 |  | -8.07 | -8.35 |  |
| T2DM | 1732 | 1831 | 1962 | 2040 |  | 2010 | 2271 |  | 1884 | 1775 |  | 1836 | 1867 |  |

Rock type abbreviation: two mica(Tm), monzogranite(MG), Biotite(Bi), Seynogranite(SG).