表1 宁多花岗岩样品的锆石LA-ICP-MS U-Pb定年结果

Table 1 Zircon LA-ICP-MS U-Pb dating results of the Ningduo granites

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 测试点 | 元素含量 (ppm) | Th/U | 同位素比值 | 　 | 同位素年龄 (Ma) |
| 232Th | 238U | 207Pb/206Pb | ±1σ | 207Pb/235U | ±1σ | 206Pb/238U | ±1σ |  | 207Pb/206Pb | ±1σ | 207Pb/235U | ±1σ | 206Pb/238U | ±1σ |
| ND01-2-01 | 214  | 938  | 0.23  | 0.05120  | 0.00197  | 0.27848  | 0.01039  | 0.03936  | 0.00045  | 　 | 250  | 65  | 249  | 8  | 249  | 3  |
| ND01-2-02 | 212  | 1496  | 0.14  | 0.05316  | 0.00199  | 0.29376  | 0.01060  | 0.04008  | 0.00039  |  | 335  | 87  | 262  | 8  | 253  | 2  |
| ND01-2-03 | 302  | 1021  | 0.30  | 0.05120  | 0.00185  | 0.28186  | 0.01006  | 0.03979  | 0.00041  |  | 250  | 63  | 252  | 8  | 252  | 3  |
| ND01-2-04 | 340  | 695  | 0.49  | 0.05185  | 0.00224  | 0.27762  | 0.01182  | 0.03895  | 0.00048  |  | 279  | 75  | 249  | 9  | 246  | 3  |
| ND01-2-05 | 371  | 1055  | 0.35  | 0.05628  | 0.00198  | 0.30239  | 0.01050  | 0.03895  | 0.00040  |  | 463  | 59  | 268  | 8  | 246  | 2  |
| ND01-2-06 | 433  | 1011  | 0.43  | 0.05054  | 0.00282  | 0.27688  | 0.01469  | 0.03973  | 0.00069  |  | 220  | 129  | 248  | 12  | 251  | 4  |
| ND01-2-07 | 307  | 886  | 0.35  | 0.05141  | 0.00191  | 0.27364  | 0.00991  | 0.03870  | 0.00039  |  | 259  | 64  | 246  | 8  | 245  | 2  |
| ND01-2-08 | 379  | 837  | 0.45  | 0.05175  | 0.00199  | 0.27475  | 0.01061  | 0.03843  | 0.00043  |  | 275  | 68  | 246  | 8  | 243  | 3  |
| ND01-2-09 | 418  | 940  | 0.44  | 0.05238  | 0.00190  | 0.28103  | 0.01090  | 0.03869  | 0.00045  |  | 302  | 67  | 251  | 9  | 245  | 3  |
| ND01-2-10 | 409  | 1138  | 0.36  | 0.05014  | 0.00169  | 0.26849  | 0.00910  | 0.03887  | 0.00041  |  | 201  | 59  | 241  | 7  | 246  | 3  |
| ND01-2-11 | 411  | 1537  | 0.27  | 0.05215  | 0.00236  | 0.28586  | 0.01256  | 0.03975  | 0.00043  |  | 292  | 106  | 255  | 10  | 251  | 3  |
| ND01-2-12 | 206  | 1497  | 0.14  | 0.05232  | 0.00158  | 0.28237  | 0.00873  | 0.03905  | 0.00037  |  | 299  | 53  | 253  | 7  | 247  | 2  |
| ND01-2-13 | 311  | 805  | 0.39  | 0.05275  | 0.00217  | 0.28344  | 0.01148  | 0.03918  | 0.00044  |  | 318  | 72  | 253  | 9  | 248  | 3  |
| ND01-2-14 | 484  | 1222  | 0.40  | 0.04908  | 0.00175  | 0.26212  | 0.00909  | 0.03880  | 0.00035  |  | 152  | 64  | 236  | 7  | 245  | 2  |
| ND01-2-15 | 477  | 1375  | 0.35  | 0.04999  | 0.00169  | 0.27222  | 0.00906  | 0.03955  | 0.00040  |  | 195  | 59  | 244  | 7  | 250  | 2  |
| ND01-2-16 | 486  | 857  | 0.57  | 0.04953  | 0.00211  | 0.27012  | 0.01145  | 0.03975  | 0.00048  |  | 173  | 76  | 243  | 9  | 251  | 3  |
| ND01-2-17 | 371  | 897  | 0.41  | 0.05047  | 0.00194  | 0.27328  | 0.01035  | 0.03952  | 0.00044  |  | 217  | 67  | 245  | 8  | 250  | 3  |
| ND01-2-18 | 433  | 1155  | 0.38  | 0.04941  | 0.00173  | 0.26756  | 0.00915  | 0.03930  | 0.00039  |  | 167  | 61  | 241  | 7  | 249  | 2  |
| ND01-2-19 | 304  | 1080  | 0.28  | 0.05291  | 0.00186  | 0.29324  | 0.01054  | 0.04008  | 0.00043  |  | 325  | 62  | 261  | 8  | 253  | 3  |
| ND01-2-20 | 211  | 1033  | 0.20  | 0.05399  | 0.00228  | 0.29527  | 0.01206  | 0.03967  | 0.00043  |  | 370  | 98  | 263  | 9  | 251  | 3  |
| ND01-2-21 | 427  | 1045  | 0.41  | 0.05237  | 0.00175  | 0.28917  | 0.00957  | 0.04004  | 0.00044  |  | 302  | 55  | 258  | 8  | 253  | 3  |
| ND01-2-22 | 365  | 2371  | 0.15  | 0.05372  | 0.00142  | 0.29174  | 0.00770  | 0.03923  | 0.00034  |  | 359  | 44  | 260  | 6  | 248  | 2  |
| ND01-2-23 | 379  | 838  | 0.45  | 0.05365  | 0.00205  | 0.29032  | 0.01060  | 0.03941  | 0.00046  |  | 356  | 61  | 259  | 8  | 249  | 3  |
| ND01-2-24 | 345  | 1315  | 0.26  | 0.05185  | 0.00164  | 0.28058  | 0.00865  | 0.03923  | 0.00043  |  | 279  | 50  | 251  | 7  | 248  | 3  |
| ND01-2-25 | 499  | 1095  | 0.46  | 0.04957  | 0.00185  | 0.26978  | 0.01005  | 0.03929  | 0.00047  |  | 175  | 65  | 243  | 8  | 248  | 3  |
| ND01-2-26 | 257  | 601  | 0.43  | 0.05407  | 0.00232  | 0.29303  | 0.01253  | 0.03924  | 0.00051  |  | 374  | 73  | 261  | 10  | 248  | 3  |
| ND01-2-27 | 328  | 1168  | 0.28  | 0.05169  | 0.00191  | 0.28300  | 0.01063  | 0.03939  | 0.00042  |  | 272  | 66  | 253  | 8  | 249  | 3  |
| ND01-2-28 | 260  | 774  | 0.34  | 0.05283  | 0.00193  | 0.28388  | 0.00994  | 0.03905  | 0.00046  |  | 321  | 58  | 254  | 8  | 247  | 3  |
| ND01-2-29 | 446  | 1844  | 0.24  | 0.04842  | 0.00131  | 0.26513  | 0.00713  | 0.03964  | 0.00042  |  | 120  | 43  | 239  | 6  | 251  | 3  |
| ND01-2-30 | 184  | 1079  | 0.17  | 0.05183  | 0.00172  | 0.33677  | 0.01734  | 0.04610  | 0.00147  |  | 278  | 62  | 295  | 13  | 291  | 9  |
| ND01-2-31 | 211  | 952  | 0.22  | 0.05490  | 0.00294  | 0.35160  | 0.01983  | 0.04712  | 0.00153  | 　 | 408  | 70  | 306  | 15  | 297  | 9  |

表2 宁多花岗岩样品的主量元素、微量元素和Sr-Nd同位素组成

Table 2 Major (wt%), trace element (ppm) and Sr-Nd isotopic compositions of the Ningduo granites

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 样品号 | ND06-3 | ND01-1 | ND01-2 | ND05-6 | ND03-4 | ND02-3 | JR2\* | JR3\* | JR4\* | JR5\* | JR6\* |
| SiO2 | 69.59  | 67.10  | 66.94  | 64.59  | 65.94  | 68.22  | 68.73  | 70.87  | 66.74  | 65.66  | 62.80  |
| TiO2 | 0.64  | 0.82  | 0.80  | 0.82  | 0.78  | 0.59  | 0.65  | 0.57  | 0.75  | 0.74  | 0.58  |
| Al2O3 | 14.45  | 13.81  | 13.66  | 13.30  | 13.65  | 13.48  | 14.78  | 14.20  | 15.09  | 15.27  | 14.57  |
| Fe2O3T | 4.22  | 5.60  | 5.34  | 5.09  | 5.16  | 3.95  | 3.91  | 3.55  | 4.70  | 5.42  | 5.62  |
| MnO | 0.04  | 0.06  | 0.08  | 0.08  | 0.07  | 0.06  | 0.06  | 0.06  | 0.07  | 0.08  | 0.11  |
| MgO | 1.47  | 2.60  | 2.18  | 2.49  | 2.10  | 1.58  | 1.97  | 1.68  | 2.48  | 2.83  | 3.14  |
| CaO | 0.38  | 1.16  | 2.03  | 3.13  | 1.95  | 1.86  | 2.59  | 2.17  | 2.31  | 2.27  | 2.65  |
| Na2O | 1.96  | 2.35  | 1.95  | 2.27  | 1.97  | 2.27  | 3.19  | 2.85  | 3.32  | 3.16  | 3.41  |
| K2O | 4.93  | 3.80  | 4.53  | 3.54  | 4.55  | 5.01  | 2.88  | 3.39  | 2.76  | 2.82  | 2.76  |
| P2O5 | 0.17  | 0.18  | 0.19  | 0.19  | 0.18  | 0.16  | 0.14  | 0.13  | 0.07  | 0.08  | 0.13  |
| LOI | 2.02  | 2.20  | 1.55  | 4.07  | 2.87  | 2.81  | 1.54  | 0.98  | 2.00  | 1.53  | 1.09  |
| Mg# | 41  | 48  | 45  | 49  | 45  | 44  | 47  | 46  | 48  | 48  | 50  |
| Sc | 10.6  | 13.5  | 14.0  | 13.8  | 13.7  | 10.1  | 11.7  | 11.6  | 13.2  | 19.1  | 17.1  |
| V | 52  | 74  | 71  | 73  | 72  | 49  | 71  | 65  | 82  | 94  | 80  |
| Cr | 40.1  | 55.7  | 53.3  | 55.8  | 53.5  | 37.4  | 42.0  | 38.6  | 74.3  | 78.8  | 86.0  |
| Co | 8.9  | 11.0  | 12.5  | 10.2  | 12.3  | 7.6  | 136.0  | 135.0  | 109.0  | 123.0  | 105.0  |
| Ni | 14.2  | 20.1  | 21.5  | 19.6  | 20.3  | 13.0  | 19.0  | 19.6  | 35.8  | 34.9  | 34.2  |
| Cu | 17.8  | 13.9  | 15.8  | 20.1  | 15.4  | 10.2  | 13.9  | 14.8  | 7.6  | 14.0  | 13.1  |
| Zn | 56.0  | 46.4  | 70.7  | 46.7  | 71.5  | 57.2  | 93.1  | 105.0  | 121.0  | 162.0  | 122.0  |
| Ga | 18.9  | 19.6  | 18.6  | 18.1  | 18.7  | 17.8  | 18.4  | 18.4  | 21.6  | 22.3  | 20.5  |
| Rb | 248.5  | 174.9  | 201.5  | 164.3  | 195.2  | 218.3  | 147.0  | 162.0  | 166.0  | 180.0  | 143.0  |
| Sr | 82  | 97  | 176  | 87  | 120  | 81  | 134  | 97  | 90  | 112  | 131  |
| Y | 29.1  | 31.5  | 35.2  | 40.3  | 33.8  | 29.6  | 27.1  | 30.0  | 66.1  | 48.9  | 35.4  |
| Zr | 206  | 248  | 266  | 240  | 257  | 200  | 139  | 105  | 171  | 153  | 99  |
| Nb | 16.6  | 18.5  | 17.9  | 18.3  | 17.4  | 16.6  | 16.5  | 11.8  | 15.6  | 16.1  | 9.9  |
| Cs | 11.0  | 6.2  | 7.0  | 12.2  | 9.2  | 6.7  | 4.5  | 4.6  | 4.3  | 5.3  | 3.7  |
| Ba | 1093  | 1098  | 1611  | 935  | 1437  | 1295  | 458  | 469  | 249  | 333  | 538  |
| La | 41.2  | 41.1  | 53.4  | 53.6  | 50.9  | 40.2  | 45.1  | 47.5  | 62.9  | 54.5  | 68.3  |
| Ce | 80.6  | 84.7  | 106.9  | 106.2  | 101.5  | 80.1  | 86.5  | 94.1  | 124.0  | 110.0  | 145.0  |
| Pr | 9.3  | 9.6  | 11.6  | 11.9  | 11.2  | 8.9  | 9.8  | 11.0  | 14.6  | 13.0  | 16.9  |
| Nd | 35.1  | 38.7  | 45.4  | 46.1  | 43.5  | 34.3  | 35.1  | 40.5  | 52.9  | 47.3  | 62.5  |
| Sm | 7.20  | 8.40  | 9.03  | 9.12  | 8.67  | 7.08  | 7.15  | 8.29  | 11.60  | 9.80  | 12.70  |
| Eu | 1.01  | 2.00  | 1.33  | 1.14  | 1.54  | 1.07  | 1.00  | 0.85  | 1.05  | 1.08  | 1.24  |
| Gd | 6.05  | 7.50  | 7.67  | 8.02  | 7.43  | 6.40  | 6.18  | 7.95  | 11.64  | 10.29  | 12.09  |
| Tb | 0.93  | 1.05  | 1.12  | 1.23  | 1.08  | 0.95  | 1.07  | 1.16  | 1.88  | 1.57  | 1.73  |
| Dy | 5.47  | 5.89  | 6.76  | 7.08  | 6.28  | 5.26  | 5.51  | 5.93  | 10.90  | 8.52  | 7.90  |
| Ho | 1.02  | 1.09  | 1.22  | 1.38  | 1.17  | 0.99  | 1.07  | 1.16  | 2.36  | 1.78  | 1.42  |
| Er | 2.71  | 2.85  | 3.42  | 3.76  | 3.20  | 2.77  | 2.85  | 2.92  | 6.56  | 4.47  | 3.35  |
| Tm | 0.38  | 0.38  | 0.48  | 0.52  | 0.44  | 0.39  | 0.37  | 0.37  | 0.87  | 0.57  | 0.38  |
| Yb | 2.45  | 2.54  | 3.22  | 3.46  | 2.93  | 2.57  | 2.42  | 2.39  | 5.39  | 3.09  | 2.37  |
| Lu | 0.35  | 0.36  | 0.46  | 0.51  | 0.41  | 0.37  | 0.35  | 0.35  | 0.75  | 0.38  | 0.32  |
| Hf | 5.44  | 6.72  | 6.96  | 6.02  | 6.62  | 5.25  | 4.10  | 3.04  | 4.91  | 4.36  | 2.82  |
| Ta | 1.46  | 1.44  | 1.39  | 1.41  | 1.33  | 1.38  | 1.50  | 1.18  | 1.47  | 1.46  | 0.77  |
| Pb | 38.1  | 34.0  | 34.7  | 27.8  | 34.1  | 39.4  | 27.5  | 33.6  | 22.1  | 57.6  | 24.4  |
| Th | 25.17  | 27.14  | 28.37  | 27.85  | 26.49  | 23.65  | 25.50  | 28.30  | 43.00  | 35.30  | 47.40  |
| U | 4.12  | 3.50  | 3.91  | 4.54  | 4.64  | 5.23  | 2.30  | 2.73  | 2.99  | 2.38  | 1.80  |
| Nb/La | 0.40  | 0.45  | 0.34  | 0.34  | 0.34  | 0.41  | 0.37  | 0.25  | 0.25  | 0.30  | 0.14  |
| T(℃) | 845  | 849  | 839  | 811  | 836  | 806  | 777  | 758  | 798  | 790  | 739  |
| 87Rb/86Sr | 8.790599  |  | 3.331025  |  |  |  | 3.183682  | 4.836339  | 5.355183  | 4.665341  | 3.168891  |
| 87Sr/86Sr | 0.751319  |  | 0.734207  |  |  |  | 0.738668  | 0.748054  | 0.743193  | 0.741306  | 0.741628  |
| 147Sm/144Nd | 0.124177  |  | 0.120381  |  |  |  | 0.123166  | 0.123764  | 0.132584  | 0.125272  | 0.122862  |
| 143Nd/144Nd | 0.511892  |  | 0.511880  |  |  |  | 0.511949  | 0.511965  | 0.511917  | 0.511917  | 0.511954  |
| t(Ma) | 249 |  | 249 |  |  |  |  |  |  |  |  |
|  Isr | 0.720  |  | 0.722  |  |  |  | 0.727  | 0.731  | 0.724  | 0.725  | 0.730  |
| εNd(t) | -12.3  |  | -12.4  |  |  |  | -11.1  | -10.8  | -12.0  | -11.8  | -11.0  |
| T2DM(Nd) | 2.02  | 　 | 2.03  | 　 | 　 | 　 | 1.92  | 1.90  | 2.00  | 1.98  | 1.92  |

续上表

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 样品号 | JR7\* | JR8\* | JR1\* | 11ST-60A\*\* | 11ST-60C\*\* | 11ST-60E\*\* | 11ST-60F\*\* | 11ST-61A\*\* | 11ST-61C\*\* |
| SiO2 | 67.61  | 63.45  | 68.22  | 67.50  | 67.49  | 67.35  | 67.04  | 67.04  | 67.26  |
| TiO2 | 0.62  | 0.67  | 0.75  | 0.46  | 0.47  | 0.45  | 0.46  | 0.60  | 0.63  |
| Al2O3 | 15.87  | 15.16  | 13.27  | 15.00  | 15.02  | 15.25  | 15.43  | 13.98  | 14.16  |
| Fe2O3T | 3.20  | 6.30  | 5.48  | 3.65  | 3.64  | 3.55  | 3.56  | 3.94  | 3.76  |
| MnO | 0.03  | 0.10  | 0.07  | 0.07  | 0.07  | 0.07  | 0.08  | 0.07  | 0.06  |
| MgO | 1.97  | 3.83  | 2.49  | 1.23  | 1.21  | 1.30  | 1.24  | 2.44  | 2.33  |
| CaO | 0.83  | 2.90  | 1.09  | 3.21  | 3.25  | 3.01  | 2.92  | 2.20  | 2.27  |
| Na2O | 4.22  | 2.56  | 1.84  | 2.80  | 2.71  | 2.90  | 2.92  | 2.28  | 2.36  |
| K2O | 2.12  | 1.75  | 2.42  | 3.73  | 3.93  | 3.69  | 4.00  | 3.75  | 3.57  |
| P2O5 | 0.16  | 0.07  | 0.09  | 0.12  | 0.12  | 0.12  | 0.12  | 0.18  | 0.18  |
| LOI | 2.20  | 2.16  | 2.85  | 1.24  | 1.09  | 1.35  | 1.29  | 2.57  | 2.48  |
| Mg# | 52  | 52  | 45  | 38  | 37  | 39  | 38  | 52  | 52  |
| Sc | 13.7  | 18.0  | 14.2  | 7.6  | 6.6  | 11.4  | 4.6  | 10.8  | 12.6  |
| V | 70  | 113  | 108  | 35  | 40  | 51  | 21  | 66  | 80  |
| Cr | 41.7  | 122.0  | 82.5  | 15.0  | 9.0  | 23.0  | 9.0  | 80.0  | 104.0  |
| Co | 86.1  | 103.0  | 103.0  | 5.0  | 6.0  | 8.0  | 3.0  | 9.0  | 11.0  |
| Ni | 19.1  | 52.9  | 40.7  | 3.0  | 4.0  | 5.0  | 2.0  | 24.0  | 32.0  |
| Cu | 14.7  | 14.9  | 33.6  |  |  |  |  |  |  |
| Zn | 55.9  | 141.0  | 79.6  |  |  |  |  |  |  |
| Ga | 18.9  | 23.3  | 15.8  | 15.2  | 18.0  | 21.5  | 9.5  | 17.4  | 21.1  |
| Rb | 116.0  | 96.3  | 87.5  | 136.0  | 96.0  | 132.0  | 76.5  | 159.0  | 175.0  |
| Sr | 152  | 136  | 105  | 234  | 161  | 241  | 120  | 147  | 131  |
| Y | 30.3  | 16.1  | 27.3  | 26.6  | 23.9  | 28.9  | 16.6  | 27.7  | 36.9  |
| Zr | 229  | 153  | 127  | 201  | 135  | 162  | 97  | 170  | 206  |
| Nb | 12.4  | 8.7  | 12.3  | 12.8  | 13.1  | 14.1  | 6.9  | 14.3  | 15.2  |
| Cs | 1.4  | 2.7  | 5.8  | 2.2  | 2.8  | 3.4  | 1.2  | 3.3  | 2.7  |
| Ba | 697  | 540  | 719  | 1091  | 1020  | 1243  | 608  | 1137  | 826  |
| La | 54.1  | 43.2  | 32.3  | 55.9  | 23.3  | 45.1  | 18.1  | 43.8  | 44.6  |
| Ce | 105.0  | 86.2  | 65.2  | 106.0  | 48.1  | 85.1  | 35.0  | 89.9  | 89.2  |
| Pr | 12.1  | 10.1  | 7.5  | 11.8  | 5.4  | 9.6  | 4.2  | 10.8  | 10.4  |
| Nd | 43.7  | 36.9  | 27.4  | 42.8  | 20.9  | 33.9  | 15.6  | 41.1  | 39.1  |
| Sm | 8.12  | 7.22  | 5.90  | 7.21  | 4.36  | 6.38  | 3.10  | 7.56  | 7.37  |
| Eu | 1.11  | 1.27  | 1.22  | 1.28  | 0.99  | 1.27  | 0.67  | 1.34  | 1.21  |
| Gd | 7.12  | 6.64  | 5.40  | 6.59  | 4.59  | 5.93  | 3.17  | 6.93  | 6.88  |
| Tb | 1.13  | 0.87  | 0.89  | 0.99  | 0.72  | 0.93  | 0.52  | 0.99  | 1.11  |
| Dy | 5.60  | 3.49  | 5.08  | 5.67  | 4.45  | 5.58  | 3.12  | 5.70  | 6.71  |
| Ho | 1.12  | 0.61  | 1.10  | 1.14  | 0.94  | 1.12  | 0.66  | 1.13  | 1.43  |
| Er | 3.12  | 1.57  | 2.94  | 3.15  | 2.63  | 3.16  | 1.88  | 3.05  | 4.05  |
| Tm | 0.41  | 0.20  | 0.40  | 0.45  | 0.39  | 0.45  | 0.28  | 0.42  | 0.57  |
| Yb | 2.61  | 1.42  | 2.67  | 2.89  | 2.57  | 2.90  | 1.86  | 2.72  | 3.72  |
| Lu | 0.35  | 0.21  | 0.38  | 0.44  | 0.38  | 0.44  | 0.28  | 0.39  | 0.55  |
| Hf | 6.30  | 4.24  | 3.80  | 5.74  | 3.64  | 4.52  | 2.85  | 4.69  | 5.73  |
| Ta | 1.20  | 0.56  | 1.07  | 1.23  | 1.19  | 1.39  | 0.85  | 1.45  | 1.66  |
| Pb | 4.8  | 18.9  | 14.4  | 30.0  | 26.5  | 31.7  | 16.7  | 37.5  | 28.1  |
| Th | 28.40  | 23.80  | 14.70  | 25.40  | 13.60  | 21.40  | 9.69  | 24.40  | 22.90  |
| U | 2.30  | 1.80  | 2.20  | 3.59  | 2.24  | 3.23  | 1.91  | 2.57  | 3.16  |
| Nb/La | 0.23  | 0.20  | 0.38  | 0.23  | 0.56  | 0.31  | 0.38  | 0.33  | 0.34  |
| T(℃) | 847  | 796  |  | 800  | 764  | 784  | 741  | 800  | 818  |
| 87Rb/86Sr |  | 2.056288  | 2.418803  |  | 1.730000  |  | 1.850000  | 3.140000  | 3.870000  |
| 87Sr/86Sr |  | 0.745266  | 0.740191  |  | 0.723624  |  | 0.724253  | 0.736370  | 0.741243  |
| 147Sm/144Nd |  | 0.118302  | 0.130192  |  | 0.130000  |  | 0.120000  | 0.110000  | 0.110000  |
| 143Nd/144Nd |  | 0.511849  | 0.511865  |  | 0.511967  |  | 0.511951  | 0.511892  | 0.511882  |
| t(Ma) |  |  |  |  |  |  |  |  |  |
|  Isr |  | 0.738  | 0.732  |  | 0.717  |  | 0.718  | 0.725  | 0.728  |
| εNd(t) |  | -12.9  | -13.0  |  | -11.0  |  | -11.0  | -11.8  | -12.0  |
| T2DM(Nd) | 　 | 2.07  | 2.07  |  | 1.91  | 　 | 1.91  | 1.98  | 2.00  |

\*和\*\*数据分别为东达山和吉塘花岗岩的数据（Peng et al.,2015; Tao et al., 2014)，其中JR1\*为元古代片麻岩。