补充数据表2 茫崖花岗岩Lu-Hf同位素分析结果表

Supplementary table 2 Zircon Lu-Hf isotopic data of the Mangya granites.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 样品点号 | 年龄 (Ma) | 176Hf/177Hf | 2σ | 176Lu/177Hf | 2σ | 176Yb/177Hf | 2σ | *ε*Hf (*0*) | *ε*Hf (*t*) | *2σ* | tDM1 | tDM2 | *f*Lu/Hf(s) |
| CL121-1-01 | 449  | 0.282506  | 0.000016  | 0.000342  | 0.000002  | 0.011044  | 0.000087  | -9.42  | 0.36  | 0.55  | 1038  | 1406  | -0.99  |
| CL121-1-02 | 446  | 0.282525  | 0.000014  | 0.000944  | 0.000009  | 0.032976  | 0.000431  | -8.72  | 0.82  | 0.49  | 1026  | 1375  | -0.97  |
| CL121-1-03 | 440  | 0.282564  | 0.000014  | 0.000478  | 0.000004  | 0.014502  | 0.000097  | -7.35  | 2.20  | 0.48  | 960  | 1283  | -0.99  |
| CL121-1-04 | 440  | 0.282512  | 0.000015  | 0.000761  | 0.000004  | 0.026370  | 0.000214  | -9.18  | 0.29  | 0.54  | 1040  | 1404  | -0.98  |
| CL121-1-05 | 435  | 0.282541  | 0.000012  | 0.000357  | 0.000001  | 0.011372  | 0.000058  | -8.19  | 1.29  | 0.43  | 990  | 1337  | -0.99  |
| CL121-1-06 | 435  | 0.282504  | 0.000017  | 0.000640  | 0.000004  | 0.020583  | 0.000071  | -9.48  | -0.08  | 0.59  | 1048  | 1424  | -0.98  |
| CL121-1-07 | 432  | 0.282556  | 0.000014  | 0.001465  | 0.000031  | 0.043131  | 0.000940  | -7.65  | 1.45  | 0.50  | 997  | 1324  | -0.96  |
| CL121-1-08 | 448  | 0.282580  | 0.000013  | 0.000512  | 0.000004  | 0.015196  | 0.000116  | -6.79  | 2.91  | 0.45  | 939  | 1243  | -0.98  |
| CL121-1-09 | 447  | 0.282529  | 0.000012  | 0.000298  | 0.000007  | 0.008564  | 0.000298  | -8.61  | 1.13  | 0.42  | 1005  | 1355  | -0.99  |
| CL121-1-10 | 435  | 0.282542  | 0.000017  | 0.001829  | 0.000005  | 0.062864  | 0.000214  | -8.14  | 0.91  | 0.62  | 1027  | 1361  | -0.94  |
| CL121-1-11 | 445  | 0.282554  | 0.000014  | 0.001623  | 0.000009  | 0.056611  | 0.000411  | -7.70  | 1.61  | 0.51  | 1004  | 1324  | -0.95  |
| CL121-1-12 | 443  | 0.282521  | 0.000016  | 0.001141  | 0.000007  | 0.038791  | 0.000329  | -8.88  | 0.53  | 0.58  | 1038  | 1390  | -0.97  |
| CL121-1-13 | 448  | 0.282571  | 0.000011  | 0.000313  | 0.000002  | 0.009888  | 0.000081  | -7.10  | 2.68  | 0.40  | 946  | 1258  | -0.99  |
| CL121-1-14 | 442  | 0.282518  | 0.000015  | 0.000776  | 0.000011  | 0.024664  | 0.000445  | -8.98  | 0.53  | 0.52  | 1032  | 1390  | -0.98  |
| CL121-1-15 | 447  | 0.282552  | 0.000016  | 0.001426  | 0.000006  | 0.048717  | 0.000378  | -7.77  | 1.64  | 0.58  | 1001  | 1323  | -0.96  |
| CL121-2-01 | 441  | 0.282538  | 0.000016  | 0.000513  | 0.000014  | 0.019454  | 0.000722  | -8.28  | 1.28  | 0.56  | 997  | 1342  | -0.98  |
| CL121-2-02 | 437  | 0.282519  | 0.000016  | 0.000879  | 0.000031  | 0.032268  | 0.001132  | -8.96  | 0.41  | 0.56  | 1034  | 1394  | -0.97  |
| CL121-2-03 | 439  | 0.282613  | 0.000020  | 0.002236  | 0.000047  | 0.089427  | 0.001678  | -5.63  | 3.38  | 0.69  | 935  | 1206  | -0.93  |
| CL121-2-04 | 425  | 0.282641  | 0.000019  | 0.001893  | 0.000021  | 0.075048  | 0.000667  | -4.63  | 4.20  | 0.68  | 886  | 1144  | -0.94  |
| CL121-2-05 | 439  | 0.282598  | 0.000017  | 0.001049  | 0.000008  | 0.039364  | 0.000279  | -6.15  | 3.20  | 0.59  | 927  | 1218  | -0.97  |
| CL121-2-06 | 437  | 0.282602  | 0.000019  | 0.001878  | 0.000013  | 0.073173  | 0.000619  | -6.03  | 3.05  | 0.68  | 943  | 1226  | -0.94  |
| CL121-2-07 | 438  | 0.282579  | 0.000017  | 0.000864  | 0.000016  | 0.032974  | 0.000942  | -6.83  | 2.55  | 0.59  | 949  | 1258  | -0.97  |
| CL121-2-08 | 432  | 0.282577  | 0.000018  | 0.001736  | 0.000008  | 0.062187  | 0.000321  | -6.90  | 2.11  | 0.64  | 975  | 1282  | -0.95  |
| CL121-2-09 | 437  | 0.282590  | 0.000016  | 0.000424  | 0.000007  | 0.014178  | 0.000314  | -6.44  | 3.06  | 0.57  | 923  | 1226  | -0.99  |
| CL121-2-10 | 439  | 0.282670  | 0.000020  | 0.002241  | 0.000038  | 0.088455  | 0.001754  | -3.62  | 5.41  | 0.69  | 853  | 1078  | -0.93  |
| CL121-2-11 | 441  | 0.282616  | 0.000020  | 0.001985  | 0.000031  | 0.076414  | 0.000913  | -5.53  | 3.60  | 0.72  | 925  | 1194  | -0.94  |
| CL121-2-12 | 440  | 0.282621  | 0.000028  | 0.003547  | 0.000044  | 0.146805  | 0.001564  | -5.34  | 3.32  | 1.01  | 958  | 1211  | -0.89  |
| CL121-2-13 | 443  | 0.282622  | 0.000021  | 0.001561  | 0.000075  | 0.062020  | 0.003167  | -5.30  | 3.99  | 0.76  | 905  | 1171  | -0.95  |
| CL121-2-14 | 440  | 0.282562  | 0.000017  | 0.001283  | 0.000033  | 0.051020  | 0.001485  | -7.42  | 1.89  | 0.60  | 983  | 1302  | -0.96  |
| CL121-2-15 | 438  | 0.282638  | 0.000025  | 0.002693  | 0.000020  | 0.113984  | 0.000599  | -4.74  | 4.12  | 0.87  | 910  | 1159  | -0.92  |
| CL123-01 | 445  | 0.282523  | 0.000020  | 0.001258  | 0.000043  | 0.042654  | 0.001447  | -8.82  | 0.61  | 0.70  | 1039  | 1387  | -0.96  |
| CL123-02 | 442  | 0.282508  | 0.000014  | 0.000199  | 0.000001  | 0.006144  | 0.000011  | -9.32  | 0.35  | 0.49  | 1030  | 1402  | -0.99  |
| CL123-03 | 451  | 0.282512  | 0.000015  | 0.000177  | 0.000000  | 0.005479  | 0.000010  | -9.19  | 0.70  | 0.52  | 1024  | 1387  | -0.99  |
| CL123-04 | 458  | 0.282547  | 0.000017  | 0.000724  | 0.000016  | 0.024266  | 0.000571  | -7.95  | 1.92  | 0.60  | 990  | 1315  | -0.98  |
| CL123-05 | 456  | 0.282508  | 0.000017  | 0.000789  | 0.000002  | 0.025240  | 0.000099  | -9.34  | 0.46  | 0.60  | 1047  | 1405  | -0.98  |
| CL123-06 | 455  | 0.282574  | 0.000021  | 0.000975  | 0.000015  | 0.032026  | 0.000551  | -7.01  | 2.72  | 0.73  | 959  | 1261  | -0.97  |
| CL123-07 | 451  | 0.282498  | 0.000018  | 0.000564  | 0.000012  | 0.019058  | 0.000456  | -9.68  | 0.07  | 0.64  | 1054  | 1426  | -0.98  |
| CL123-08 | 447  | 0.282527  | 0.000015  | 0.000626  | 0.000025  | 0.019562  | 0.000797  | -8.66  | 1.00  | 0.55  | 1015  | 1364  | -0.98  |
| CL123-09 | 451  | 0.282527  | 0.000016  | 0.000587  | 0.000012  | 0.018814  | 0.000375  | -8.66  | 1.08  | 0.56  | 1014  | 1362  | -0.98  |
| CL123-10 | 452  | 0.282499  | 0.000016  | 0.000437  | 0.000001  | 0.014263  | 0.000095  | -9.66  | 0.15  | 0.58  | 1050  | 1421  | -0.99  |
| CL123-11 | 446  | 0.282583  | 0.000017  | 0.000933  | 0.000002  | 0.030629  | 0.000150  | -6.68  | 2.86  | 0.59  | 945  | 1245  | -0.97  |
| CL123-12 | 455  | 0.282581  | 0.000017  | 0.000577  | 0.000012  | 0.017704  | 0.000402  | -6.76  | 3.08  | 0.62  | 939  | 1238  | -0.98  |
| CL123-13 | 454  | 0.282573  | 0.000017  | 0.000860  | 0.000001  | 0.028446  | 0.000194  | -7.05  | 2.69  | 0.62  | 958  | 1262  | -0.97  |
| CL123-14 | 447  | 0.282560  | 0.000016  | 0.000516  | 0.000001  | 0.016066  | 0.000105  | -7.48  | 2.20  | 0.56  | 966  | 1288  | -0.98  |
| CL123-15 | 449  | 0.282544  | 0.000018  | 0.000588  | 0.000017  | 0.018696  | 0.000525  | -8.06  | 1.66  | 0.63  | 991  | 1324  | -0.98  |
| CL123-16 | 445  | 0.282541  | 0.000018  | 0.000700  | 0.000022  | 0.022609  | 0.000780  | -8.17  | 1.42  | 0.64  | 998  | 1336  | -0.98  |
| CL123-17 | 453  | 0.282529  | 0.000018  | 0.000299  | 0.000005  | 0.009338  | 0.000145  | -8.61  | 1.27  | 0.63  | 1005  | 1351  | -0.99  |
| CL123-18 | 452  | 0.282516  | 0.000018  | 0.000461  | 0.000005  | 0.013944  | 0.000145  | -9.06  | 0.76  | 0.64  | 1026  | 1383  | -0.99  |
| CL123-19 | 451  | 0.282570  | 0.000020  | 0.000668  | 0.000016  | 0.022443  | 0.000618  | -7.16  | 2.56  | 0.70  | 957  | 1268  | -0.98  |
| CL123-20 | 454  | 0.282518  | 0.000017  | 0.000752  | 0.000063  | 0.025348  | 0.002121  | -9.00  | 0.78  | 0.60  | 1032  | 1384  | -0.98  |
| CL123-21 | 452  | 0.282557  | 0.000022  | 0.001256  | 0.000059  | 0.045365  | 0.002356  | -7.62  | 1.95  | 0.77  | 991  | 1307  | -0.96  |
| CL123-22 | 450  | 0.282543  | 0.000020  | 0.000930  | 0.000019  | 0.029872  | 0.000499  | -8.09  | 1.54  | 0.69  | 1001  | 1332  | -0.97  |
| CL123-23 | 455  | 0.282552  | 0.000017  | 0.000732  | 0.000011  | 0.024557  | 0.000512  | -7.77  | 2.03  | 0.61  | 983  | 1305  | -0.98  |
| CL124-01 | 451  | 0.282620  | 0.000014  | 0.000503  | 0.000006  | 0.020652  | 0.000366  | -5.36  | 4.42  | 0.48  | 883  | 1150  | -0.98  |
| CL124-02 | 453  | 0.282543  | 0.000014  | 0.000985  | 0.000006  | 0.044864  | 0.000346  | -8.10  | 1.58  | 0.50  | 1003  | 1332  | -0.97  |
| CL124-03 | 468  | 0.282462  | 0.000015  | 0.000025  | 0.000001  | 0.001347  | 0.000053  | -10.96  | -0.68  | 0.53  | 1089  | 1486  | -1.00  |
| CL124-04 | 464  | 0.282604  | 0.000018  | 0.001099  | 0.000024  | 0.050691  | 0.001481  | -5.93  | 3.96  | 0.62  | 919  | 1189  | -0.97  |
| CL124-05 | 456  | 0.282520  | 0.000015  | 0.000507  | 0.000013  | 0.020627  | 0.000850  | -8.90  | 0.98  | 0.55  | 1022  | 1372  | -0.98  |
| CL124-06 | 470  | 0.282578  | 0.000015  | 0.000660  | 0.000005  | 0.025812  | 0.000409  | -6.87  | 3.27  | 0.54  | 946  | 1237  | -0.98  |
| CL124-07 | 468  | 0.282655  | 0.000023  | 0.001872  | 0.000117  | 0.084880  | 0.005345  | -4.13  | 5.61  | 0.82  | 865  | 1088  | -0.94  |
| CL124-08 | 450  | 0.282447  | 0.000014  | 0.000520  | 0.000007  | 0.023083  | 0.000355  | -11.48  | -1.73  | 0.51  | 1123  | 1539  | -0.98  |
| CL124-09 | 465  | 0.282616  | 0.000022  | 0.000980  | 0.000017  | 0.038022  | 0.000281  | -5.51  | 4.43  | 0.77  | 900  | 1160  | -0.97  |
| CL124-10 | 454  | 0.282542  | 0.000017  | 0.000247  | 0.000004  | 0.012901  | 0.000097  | -8.14  | 1.78  | 0.60  | 985  | 1320  | -0.99  |
| CL124-11 | 468  | 0.282474  | 0.000019  | 0.001881  | 0.000047  | 0.083505  | 0.001921  | -10.52  | -0.80  | 0.66  | 1126  | 1494  | -0.94  |
| CL124-12 | 456  | 0.282568  | 0.000015  | 0.000529  | 0.000004  | 0.021561  | 0.000239  | -7.22  | 2.66  | 0.53  | 956  | 1266  | -0.98  |
| CL124-13 | 453  | 0.282567  | 0.000018  | 0.000938  | 0.000011  | 0.036606  | 0.000410  | -7.25  | 2.45  | 0.63  | 968  | 1277  | -0.97  |
| CL124-14 | 462  | 0.282662  | 0.000015  | 0.000656  | 0.000035  | 0.029478  | 0.001598  | -3.90  | 6.08  | 0.54  | 828  | 1053  | -0.98  |
| CL124-15 | 446  | 0.282424  | 0.000020  | 0.001593  | 0.000010  | 0.066186  | 0.000486  | -12.32  | -2.97  | 0.72  | 1189  | 1615  | -0.95  |
| CL124-16 | 454  | 0.282560  | 0.000015  | 0.000653  | 0.000005  | 0.026792  | 0.000363  | -7.48  | 2.32  | 0.53  | 970  | 1286  | -0.98  |
| CL124-17 | 450  | 0.282498  | 0.000015  | 0.000074  | 0.000001  | 0.004392  | 0.000053  | -9.68  | 0.21  | 0.53  | 1040  | 1417  | -1.00  |
| CL124-18 | 452  | 0.282455  | 0.000016  | 0.000435  | 0.000014  | 0.020526  | 0.000611  | -11.20  | -1.38  | 0.56  | 1110  | 1519  | -0.99  |
| CL124-19 | 455  | 0.282531  | 0.000016  | 0.000829  | 0.000013  | 0.035783  | 0.000526  | -8.53  | 1.24  | 0.57  | 1016  | 1355  | -0.98  |
| CL124-20 | 452  | 0.282439  | 0.000016  | 0.000733  | 0.000011  | 0.030621  | 0.000498  | -11.77  | -2.04  | 0.56  | 1141  | 1561  | -0.98  |
| CL126-01 | 437  | 0.282446  | 0.000017  | 0.000675  | 0.000006  | 0.026521  | 0.000126  | -11.53  | -2.11  | 0.58  | 1130  | 1554  | -0.98  |
| CL126-02 | 432  | 0.282417  | 0.000019  | 0.000587  | 0.000007  | 0.025527  | 0.000451  | -12.54  | -3.21  | 0.66  | 1167  | 1619  | -0.98  |
| CL126-03 | 428  | 0.282558  | 0.000016  | 0.001794  | 0.000025  | 0.075966  | 0.000996  | -7.57  | 1.34  | 0.55  | 1003  | 1328  | -0.95  |
| CL126-04 | 432  | 0.282474  | 0.000018  | 0.000563  | 0.000003  | 0.023510  | 0.000083  | -10.54  | -1.20  | 0.65  | 1088  | 1492  | -0.98  |
| CL126-05 | 431  | 0.282439  | 0.000018  | 0.000651  | 0.000006  | 0.026076  | 0.000138  | -11.76  | -2.46  | 0.64  | 1138  | 1571  | -0.98  |
| CL126-06 | 429  | 0.282425  | 0.000017  | 0.000844  | 0.000029  | 0.035350  | 0.001112  | -12.29  | -3.08  | 0.59  | 1164  | 1609  | -0.97  |
| CL126-07 | 428  | 0.282451  | 0.000020  | 0.000787  | 0.000003  | 0.031881  | 0.000059  | -11.37  | -2.18  | 0.70  | 1127  | 1551  | -0.98  |
| CL126-08 | 433  | 0.282427  | 0.000017  | 0.000446  | 0.000006  | 0.018724  | 0.000132  | -12.18  | -2.77  | 0.61  | 1148  | 1593  | -0.99  |
| CL126-09 | 427  | 0.282407  | 0.000018  | 0.000677  | 0.000008  | 0.028948  | 0.000306  | -12.92  | -3.72  | 0.65  | 1184  | 1648  | -0.98  |
| CL126-10 | 427  | 0.282496  | 0.000025  | 0.001600  | 0.000014  | 0.051661  | 0.000295  | -9.75  | -0.79  | 0.87  | 1086  | 1463  | -0.95  |
| CL126-11 | 427  | 0.282465  | 0.000017  | 0.000615  | 0.000012  | 0.025133  | 0.000234  | -10.85  | -1.63  | 0.61  | 1101  | 1516  | -0.98  |
| CL126-12 | 430  | 0.282424  | 0.000017  | 0.000549  | 0.000001  | 0.023761  | 0.000130  | -12.29  | -2.98  | 0.60  | 1156  | 1603  | -0.98  |
| CL126-13 | 430  | 0.282484  | 0.000019  | 0.000634  | 0.000004  | 0.027834  | 0.000298  | -10.20  | -0.93  | 0.67  | 1076  | 1473  | -0.98  |
| CL126-14 | 435  | 0.282431  | 0.000016  | 0.000487  | 0.000010  | 0.021903  | 0.000338  | -12.04  | -2.62  | 0.56  | 1144  | 1584  | -0.99  |
| CL126-15 | 430  | 0.282512  | 0.000016  | 0.001231  | 0.000013  | 0.050576  | 0.000649  | -9.19  | -0.08  | 0.56  | 1053  | 1419  | -0.96  |