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 |