

Supplementary table S4 Zircon Hf isotopic compositions of the Wugongshan granites.

Sample No.	Age (Ma)	$^{176}\text{Hf}/^{177}\text{Hf}$	2 σ	$^{176}\text{Lu}/^{177}\text{Hf}$	2 σ	$^{176}\text{Yb}/^{177}\text{Hf}$	2 σ	$\epsilon_{\text{Hf}}(0)$	$\epsilon_{\text{Hf}}(t)$	2 σ	T_{DM1} (Ma)	T_{DM2} (Ma)	$f_{\text{Lu/Hf}}$
CJK06-2(N=15)													
1	438.9	0.282334	0.000012	0.001224	0.000012	0.031727	0.000325	-15.5	-6.2	0.4	1305	1809	-0.96
2	438.9	0.282311	0.000010	0.002222	0.000029	0.050636	0.000311	-16.3	-7.3	0.4	1374	1878	-0.93
3	438.9	0.282324	0.000011	0.001305	0.000005	0.033557	0.000183	-15.8	-6.6	0.4	1322	1833	-0.96
4	438.9	0.282329	0.000012	0.002098	0.000027	0.056002	0.001034	-15.7	-6.6	0.4	1343	1836	-0.94
5	438.9	0.282306	0.000012	0.001386	0.000036	0.036215	0.000897	-16.5	-7.2	0.4	1351	1875	-0.96
6	438.9	0.282285	0.000011	0.001280	0.000011	0.033894	0.000415	-17.2	-7.9	0.4	1376	1918	-0.96
7	438.9	0.282321	0.000012	0.001262	0.000005	0.031733	0.000245	-16.0	-6.7	0.4	1325	1839	-0.96
8	438.9	0.282316	0.000011	0.001096	0.000037	0.027673	0.000873	-16.5	-7.1	0.4	1339	1867	-0.97
9	438.9	0.282337	0.000013	0.001187	0.000012	0.030498	0.000400	-15.7	-6.4	0.5	1313	1823	-0.96
10	438.9	0.282324	0.000013	0.001895	0.000014	0.049311	0.000469	-16.4	-7.3	0.5	1365	1878	-0.94
11	438.9	0.282314	0.000012	0.001381	0.000012	0.034885	0.000418	-16.6	-7.4	0.4	1356	1883	-0.96
12	438.9	0.282305	0.000013	0.001232	0.000008	0.030656	0.000318	-16.9	-7.6	0.5	1360	1896	-0.96
13	438.9	0.282322	0.000013	0.001408	0.000008	0.035488	0.000256	-16.3	-7.1	0.5	1345	1865	-0.96
14	438.9	0.282295	0.000011	0.001160	0.000027	0.029766	0.000685	-17.2	-7.9	0.4	1370	1915	-0.97
15	438.9	0.282250	0.000012	0.000889	0.000008	0.022966	0.000170	-18.7	-9.3	0.4	1421	2006	-0.97
WGS06022(N=16)													
2	439.4	0.282300	0.000012	0.001867	0.000019	0.052601	0.000508	-17.2	-8.1	0.4	1398	1930	-0.94
3	439.4	0.282244	0.000013	0.001315	0.000009	0.035537	0.000263	-19.1	-9.8	0.5	1450	2035	-0.96
4	439.4	0.282253	0.000012	0.002144	0.000013	0.061007	0.000474	-19.0	-10.0	0.4	1480	2045	-0.94
5	439.4	0.282227	0.000012	0.001123	0.000007	0.030485	0.000326	-19.6	-10.3	0.4	1465	2066	-0.97
6	439.4	0.282224	0.000012	0.000715	0.000014	0.019433	0.000364	-19.6	-10.1	0.4	1448	2056	-0.98
7	439.4	0.282231	0.000012	0.000785	0.000008	0.021438	0.000277	-19.4	-10.0	0.4	1443	2045	-0.98
8	439.4	0.282239	0.000013	0.001227	0.000024	0.034668	0.000699	-19.2	-9.9	0.5	1453	2043	-0.96
9	439.4	0.282245	0.000011	0.001222	0.000017	0.034746	0.000539	-19.0	-9.7	0.4	1445	2030	-0.96
10	439.4	0.282274	0.000014	0.001384	0.000007	0.039570	0.000182	-18.0	-8.8	0.5	1412	1971	-0.96
11	439.4	0.282219	0.000013	0.001162	0.000010	0.031936	0.000253	-19.9	-10.6	0.5	1478	2086	-0.96
12	439.4	0.282225	0.000014	0.001195	0.000016	0.032441	0.000394	-19.7	-10.4	0.5	1471	2072	-0.96
13	439.4	0.282247	0.000013	0.001080	0.000024	0.030342	0.000755	-18.9	-9.6	0.5	1435	2021	-0.97
14	439.4	0.282239	0.000013	0.001193	0.000003	0.032606	0.000148	-19.2	-9.9	0.5	1451	2041	-0.96

15	439.4	0.282234	0.000013	0.001257	0.000005	0.035852	0.000246	-19.4	-10.1	0.5	1462	2055	-0.96
16	439.4	0.282238	0.000014	0.001508	0.000012	0.042935	0.000468	-19.3	-10.1	0.5	1469	2056	-0.95
17	439.4	0.282266	0.000013	0.001229	0.000008	0.033532	0.000191	-18.3	-9.0	0.5	1416	1983	-0.96
WGS06028(N=18)													
1	441.9	0.282202	0.000017	0.001896	0.000040	0.052406	0.001254	-20.7	-11.6	0.6	1540	2148	-0.94
2	441.9	0.282234	0.000016	0.000934	0.000008	0.026741	0.000327	-19.3	-9.9	0.5	1445	2042	-0.97
3	441.9	0.282208	0.000015	0.001059	0.000004	0.029829	0.000169	-20.2	-10.9	0.5	1488	2104	-0.97
4	441.9	0.282253	0.000018	0.001762	0.000007	0.048277	0.000371	-18.9	-9.7	0.6	1461	2030	-0.95
5	441.9	0.282245	0.000015	0.001207	0.000005	0.032411	0.000098	-19.0	-9.6	0.5	1444	2028	-0.96
6	441.9	0.282279	0.000018	0.001328	0.000007	0.034648	0.000175	-17.8	-8.5	0.6	1402	1957	-0.96
7	441.9	0.282262	0.000016	0.002018	0.000008	0.058703	0.000503	-18.6	-9.5	0.6	1461	2019	-0.94
8	441.9	0.282250	0.000021	0.001895	0.000031	0.052277	0.000748	-19.0	-9.9	0.7	1471	2041	-0.94
9	441.9	0.282264	0.000017	0.001074	0.000013	0.029209	0.000454	-18.3	-8.9	0.6	1411	1981	-0.97
10	441.9	0.282286	0.000019	0.001314	0.000020	0.036665	0.000539	-17.6	-8.3	0.7	1392	1940	-0.96
11	441.9	0.282250	0.000019	0.001912	0.000021	0.050289	0.000468	-19.0	-9.9	0.7	1472	2042	-0.94
12	441.9	0.282235	0.000015	0.001302	0.000004	0.033696	0.000088	-19.4	-10.0	0.5	1462	2052	-0.96
13	441.9	0.282263	0.000015	0.002952	0.000035	0.075212	0.000795	-18.9	-10.0	0.5	1509	2052	-0.91
14	441.9	0.282228	0.000014	0.001291	0.000005	0.034590	0.000270	-19.6	-10.3	0.5	1472	2068	-0.96
15	441.9	0.282245	0.000014	0.001421	0.000018	0.038873	0.000379	-19.1	-9.8	0.5	1455	2036	-0.96
16	441.9	0.282236	0.000019	0.001823	0.000020	0.045088	0.000834	-19.5	-10.3	0.7	1488	2070	-0.95
17	441.9	0.282262	0.000017	0.001864	0.000003	0.049603	0.000241	-18.6	-9.4	0.6	1453	2014	-0.94
18	441.9	0.282241	0.000016	0.001788	0.000011	0.046640	0.000331	-19.3	-10.1	0.6	1479	2057	-0.95