Table S1. LA-ICP-MS zircon U-Pb data of samples from the Yitong Area.

Analytical No.	Pb	Th	U	Th/U	Isotopic ratio						Rho	Age(Ma)						
	(×10⁻⁶)	(×10⁻⁶)	(×10⁻⁶)		$^{207}Pb/^{235}U$	1σ	$^{206}Pb/^{238}U$	1σ	$^{207}Pb/^{206}Pb$	1σ		$^{207}Pb/^{235}U$	1σ	$^{206}Pb/^{238}U$	1σ	$^{207}Pb/^{206}Pb$	1σ	Conc.
Plešovice	311	134	1346	0.10	0.3771	0.01395	0.05398	0.00146	0.05071	0.00170	0.7650	325	10	339	9	228	75	104.1
D11.1	21	26	70	0.38	0.56023	0.04831	0.07252	0.00242	0.05606	0.00485	0.4922	452	31	451	15	455	132	99.8
D11.2	33	43	113	0.38	0.51748	0.04310	0.06798	0.00223	0.05524	0.00461	0.5035	423	29	424	13	422	128	100.2
D11.3	24	33	84	0.39	0.52030	0.04447	0.06836	0.00227	0.05523	0.00474	0.5082	425	30	426	14	422	132	100.2
D11.4	36	45	125	0.36	0.51698	0.03553	0.06792	0.00209	0.05523	0.00377	0.5035	423	24	424	13	422	99	100.2
D11.5	35	48	116	0.42	0.56157	0.03772	0.07282	0.00222	0.05595	0.00372	0.5066	453	25	453	13	450	95	100.0
D11.6	22	31	74	0.42	0.55144	0.05677	0.07257	0.00258	0.05513	0.00573	0.5688	446	37	452	16	417	167	101.3
D11.7	26	40	91	0.44	0.53292	0.06082	0.07007	0.00267	0.05517	0.00638	0.5372	434	40	437	16	419	187	100.7
D11.8	40	54	132	0.41	0.55016	0.06031	0.07246	0.00269	0.05508	0.00611	0.5710	445	40	451	16	415	179	101.3
D11.9	36	57	123	0.46	0.51516	0.03318	0.06746	0.00203	0.05539	0.00353	0.4845	422	22	421	12	428	90	99.8
D11.10	23	29	80	0.36	0.60631	0.04701	0.07011	0.00229	0.06273	0.00488	−0.1576	481	30	437	14	699	110	89.9
D11.11	33	52	108	0.48	0.54015	0.04177	0.07150	0.00227	0.05480	0.00423	0.5824	439	28	445	14	404	116	101.3
D11.12	29	39	97	0.40	0.55967	0.05887	0.07245	0.00265	0.05603	0.00596	0.4933	451	38	451	16	454	170	100.0
D11.13	49	85	167	0.51	0.51616	0.03380	0.06763	0.00202	0.05536	0.00358	0.4893	423	23	422	12	427	93	99.8
D11.14	40	61	139	0.44	0.51862	0.03262	0.06811	0.00202	0.05522	0.00343	0.5082	424	22	425	12	421	88	100.2
D11.15	14	20	50	0.40	0.51860	0.05943	0.06759	0.00256	0.05564	0.00646	0.4639	424	40	422	15	438	189	99.5
D11.16	29	53	100	0.53	0.52031	0.04310	0.06816	0.00222	0.05536	0.00460	0.4953	425	29	425	13	427	127	100.0
D11.17	36	56	124	0.45	0.48206	0.03457	0.06768	0.00206	0.05165	0.00368	0.7851	399	24	422	12	270	109	105.5
D11.18	39	74	134	0.55	0.47722	0.03339	0.06886	0.00207	0.05025	0.00349	0.8771	396	23	429	12	207	105	107.7
D11.19	22	30	76	0.39	0.51736	0.04278	0.06829	0.00222	0.05493	0.00456	0.5359	423	29	426	13	409	127	100.7
D11.20	34	44	119	0.37	0.52265	0.04379	0.06823	0.00223	0.05554	0.00467	0.4811	427	29	425	13	434	129	99.5
D11.21	19	26	62	0.42	0.54336	0.05206	0.07141	0.00248	0.05517	0.00533	0.5527	441	34	445	15	419	153	100.9
D11.22	20	27	67	0.40	0.57671	0.06355	0.07386	0.00275	0.05661	0.00632	0.4658	462	41	459	17	476	179	99.3
D11.23	25	36	85	0.42	0.51217	0.04611	0.06808	0.00224	0.05454	0.00493	0.5674	420	31	425	14	393	143	101.2
D11.24	39	58	141	0.41	0.51972	0.03511	0.06734	0.00203	0.05595	0.00375	0.4328	425	23	420	12	450	97	98.8
D11.25	126	346	447	0.77	0.55310	0.02533	0.06758	0.00187	0.05934	0.00260	0.1100	447	17	422	11	580	54	94.1
Plešovice	267	104	1158	0.09	0.38033	0.01237	0.05375	0.0014	0.05129	0.00148	0.7087	327	9	338	9	254	65	103.0
Plešovice	131	56	598	0.09	0.39254	0.012	0.05368	0.00128	0.05304	0.00151	0.5162	336	9	337	8	331	63	100.2

DG075.1	79	193	302	0.64	1.03350	0.02572	0.07448	0.00177	0.10066	0.00223	−2.9092	721	13	463	11	1636	21	44.3
DG075.2	21	37	76	0.49	3.27986	0.08026	0.09165	0.00221	0.25960	0.00569	−4.8119	1476	19	565	13	3244	18	−61.2
DG075.3	36	61	137	0.45	0.93842	0.02537	0.07060	0.00170	0.09642	0.00239	−3.0032	672	13	440	10	1556	23	47.3
DG075.4	50	104	180	0.58	1.25268	0.03271	0.07708	0.00186	0.11789	0.00280	−3.5322	825	15	479	11	1924	21	27.8
DG075.5	27	41	97	0.42	1.88345	0.04701	0.08165	0.00196	0.16732	0.00375	−4.5908	1075	17	506	12	2531	19	−12.5
DG075.6	23	40	85	0.47	1.42909	0.03599	0.07655	0.00183	0.13541	0.00306	−4.2843	901	15	475	11	2169	20	10.3
DG075.7	25	57	94	0.60	2.34794	0.05518	0.08282	0.00195	0.20563	0.00420	−5.1425	1227	17	513	12	2871	17	−39.2
DG075.8	24	38	89	0.43	1.01106	0.02737	0.07315	0.00176	0.10024	0.00250	−3.0130	709	14	455	11	1629	22	44.2
DG075.9	27	57	102	0.56	0.69356	0.01882	0.06797	0.00163	0.07401	0.00184	−1.3661	535	11	424	10	1042	24	73.8
DG075.10	26	42	95	0.44	0.57115	0.01719	0.06810	0.00164	0.06083	0.00172	−0.0240	459	11	425	10	633	30	92.0
DG075.11	23	35	85	0.41	0.86613	0.02507	0.07222	0.00175	0.08698	0.00236	−2.1878	633	14	450	11	1360	25	59.3
DG075.12	31	82	118	0.69	0.53630	0.01531	0.06799	0.00162	0.05720	0.00151	0.3269	436	10	424	10	499	28	97.2
DG075.13	27	45	101	0.44	2.82413	0.06739	0.08696	0.00206	0.23554	0.00495	−5.0519	1362	18	538	12	3090	17	−53.2
DG075.14	33	88	118	0.75	4.91788	0.11643	0.10037	0.00238	0.35534	0.00740	−4.6127	1805	20	617	14	3730	16	−92.5
DG075.15	28	50	107	0.47	1.81410	0.04797	0.07938	0.00192	0.16574	0.00405	−4.8140	1051	17	492	11	2515	20	−13.6
DG075.16	18	31	65	0.47	1.29505	0.03342	0.07353	0.00175	0.12773	0.00300	−4.3444	844	15	457	11	2067	20	15.3
DG075.17	26	42	103	0.41	1.62147	0.04061	0.07874	0.00187	0.14934	0.00336	−4.4583	979	16	489	11	2338	19	−0.2
DG075.18	57	132	219	0.60	1.08168	0.02737	0.07135	0.00169	0.10994	0.00250	−3.7570	744	13	444	10	1798	21	32.4
DG075.19	18	28	66	0.43	0.56338	0.01864	0.06823	0.00166	0.05988	0.00190	0.0724	454	12	425	10	599	34	93.2
DG075.20	40	75	157	0.48	1.04847	0.02696	0.07294	0.00173	0.10425	0.00243	−3.2636	728	13	454	10	1701	21	39.6
Plešovice	150	67	693	0.10	0.38517	0.0112	0.0538	0.00128	0.05192	0.00139	0.6448	331	8	338	8	282	60	102.1
Plešovice	274	108	1173	0.09	0.39427	0.0136	0.05366	0.00142	0.05329	0.00164	0.4896	338	10	337	9	341	68	99.8
J1917.1	118	406	437	0.93	0.46226	0.01991	0.06284	0.00171	0.05335	0.00217	0.6101	386	14	393	10	344	51	101.8
J1917.2	90	372	331	1.12	0.47664	0.02316	0.06344	0.00176	0.05450	0.00254	0.5113	396	16	397	11	392	61	100.3
J1917.3	83	276	320	0.86	0.45665	0.02312	0.06108	0.00171	0.05423	0.00265	0.5026	382	16	382	10	381	65	100.0
J1917.4	78	288	298	0.97	0.45480	0.02474	0.06279	0.00178	0.05254	0.00278	0.6816	381	17	393	11	309	73	103.1
J1917.5	87	366	339	1.08	0.48942	0.03805	0.06309	0.00200	0.05627	0.00438	0.3287	405	26	394	12	463	116	97.2
J1917.6	82	261	321	0.81	0.46460	0.02922	0.06212	0.00183	0.05425	0.00337	0.5179	387	20	389	11	381	89	100.5
J1917.7	82	257	306	0.84	0.47338	0.03343	0.06287	0.00191	0.05461	0.00384	0.4936	394	23	393	12	396	104	99.7
J1917.8	77	320	292	1.09	0.45773	0.02342	0.06190	0.00173	0.05364	0.00266	0.5725	383	16	387	11	356	66	101.0
J1917.9	59	173	220	0.79	0.47500	0.02717	0.06287	0.00181	0.05480	0.00307	0.4743	395	19	393	11	404	77	99.5
J1917.10	111	329	432	0.76	0.46129	0.02323	0.06165	0.00172	0.05427	0.00265	0.5090	385	16	386	10	382	64	100.3
J1917.11	67	202	252	0.80	0.46363	0.02364	0.06204	0.00174	0.05421	0.00268	0.5192	387	16	388	11	380	66	100.3
J1917.12	57	119	211	0.56	0.48442	0.03054	0.06281	0.00185	0.05594	0.00349	0.3577	401	21	393	11	450	88	98.0

J1917.13	231	1265	862	1.47	0.46680	0.01551	0.06178	0.00162	0.05481	0.00162	0.4565	389	11	386	10	404	34	99.2
J1917.14	81	260	311	0.83	0.46672	0.02291	0.06113	0.00170	0.05538	0.00263	0.3838	389	16	382	10	428	61	98.2
J1917.15	102	313	385	0.81	0.49824	0.02124	0.06254	0.00170	0.05779	0.00233	0.1534	411	14	391	10	522	49	94.9
J1917.16	60	149	216	0.69	0.46007	0.02583	0.06296	0.00179	0.05301	0.00292	0.6426	384	18	394	11	329	77	102.5
J1917.17	76	174	284	0.61	0.48274	0.02781	0.06410	0.00184	0.05463	0.00309	0.5087	400	19	401	11	397	78	100.2
J1917.18	70	210	262	0.80	0.48475	0.02440	0.06254	0.00174	0.05622	0.00275	0.3226	401	17	391	11	461	64	97.4
J1917.19	58	193	215	0.90	0.46652	0.02645	0.06219	0.00178	0.05442	0.00303	0.5026	389	18	389	11	388	77	100.0
J1917.20	51	147	197	0.75	0.45207	0.02932	0.06093	0.00180	0.05382	0.00346	0.5412	379	21	381	11	364	93	100.5
J1917.21	84	228	328	0.69	0.45314	0.02315	0.06063	0.00169	0.05422	0.00269	0.4974	379	16	379	10	380	66	100.0
J1917.22	142	517	528	0.98	0.46378	0.01779	0.06183	0.00164	0.05441	0.00194	0.4974	387	12	387	10	388	43	100.0
J1917.23	67	202	253	0.80	0.44706	0.02375	0.06127	0.00171	0.05293	0.00274	0.6302	375	17	383	10	326	71	102.1
J1917.24	77	271	301	0.90	0.45786	0.02775	0.06119	0.00177	0.05427	0.00325	0.5026	383	19	383	11	382	85	100.0
J1917.25	62	173	237	0.73	0.45181	0.02583	0.06215	0.00177	0.05273	0.00296	0.6595	379	18	389	11	317	79	102.6
J1917.26	62	172	227	0.76	0.46273	0.02878	0.06182	0.00180	0.05429	0.00334	0.5090	386	20	387	11	383	88	100.3
J1917.27	113	440	431	1.02	0.46704	0.02125	0.06229	0.00170	0.05438	0.00238	0.5064	389	15	390	10	387	55	100.3
J1917.28	68	182	255	0.71	0.44702	0.02293	0.06177	0.00171	0.05249	0.00262	0.6749	375	16	386	10	307	68	102.8
J1917.29	117	439	443	0.99	0.45753	0.02266	0.06134	0.00169	0.05410	0.00260	0.5219	383	16	384	10	375	63	100.3
Plešovice	243	96	1070	0.09	0.38235	0.0131	0.05363	0.0014	0.05171	0.00161	0.6642	329	10	337	9	273	70	102.4
Plešovice	135	63	648	0.10	0.39405	0.01118	0.05369	0.00127	0.05324	0.00140	0.4940	337	8	337	8	339	59	99.9
PM07−12.1	96	401	411	0.98	0.47612	0.01647	0.06133	0.00151	0.05631	0.00187	0.5442	395	11	384	9	372	53	97.4
PM07−12.2	94	149	333	0.45	0.55298	0.01688	0.07099	0.00170	0.05650	0.00163	0.4363	447	11	442	10	472	31	98.9
PM07−12.3	122	415	498	0.83	0.48388	0.01360	0.06224	0.00147	0.05639	0.00147	0.2984	401	9	389	9	468	28	96.9
PM07−12.4	121	333	501	0.67	0.46059	0.01412	0.06170	0.00147	0.05415	0.00156	0.5218	385	10	386	9	377	32	100.3
PM07−12.5	125	298	514	0.58	0.46613	0.01359	0.06156	0.00146	0.05492	0.00149	0.4416	389	9	385	9	409	30	99.0
PM07−12.6	137	447	555	0.81	0.48649	0.01343	0.06213	0.00147	0.05680	0.00144	0.2535	403	9	389	9	484	27	96.4
PM07−12.7	36	69	130	0.53	0.58259	0.02122	0.07085	0.00175	0.05964	0.00211	0.1517	466	14	441	11	591	40	94.3
PM07−12.8	111	350	451	0.78	0.46214	0.01375	0.06203	0.00148	0.05404	0.00150	0.5355	386	10	388	9	373	31	100.5
PM07−12.9	81	274	344	0.80	0.47175	0.01458	0.05985	0.00144	0.05717	0.00167	0.1574	392	10	375	9	498	32	95.5
PM07−12.10	64	382	283	1.35	0.52363	0.01624	0.05760	0.00139	0.06593	0.00194	−1.0773	428	11	361	8	804	30	81.4
PM07−12.11	126	540	532	1.02	0.47091	0.01570	0.06119	0.00149	0.05582	0.00178	0.3408	392	11	383	9	445	35	97.7
PM07−12.12	108	519	439	1.18	0.46940	0.01349	0.06201	0.00148	0.05490	0.00146	0.4514	391	9	388	9	408	29	99.2
PM07−12.13	29	52	111	0.47	0.51730	0.02390	0.06702	0.00175	0.05598	0.00257	0.4223	423	16	418	11	452	58	98.8
PM07−12.14	130	407	458	0.89	0.55694	0.01529	0.07169	0.00170	0.05635	0.00142	0.4590	450	10	446	10	466	27	99.1
PM07−12.15	111	306	445	0.69	0.45915	0.01285	0.06169	0.00147	0.05399	0.00139	0.5357	384	9	386	9	371	28	100.5

PM07−12.16	131	539	557	0.97	0.46494	0.01557	0.06111	0.00149	0.05519	0.00177	0.4050	388	11	382	9	420	36	98.4
PM07−12.17	195	735	838	0.88	0.46610	0.01223	0.05941	0.00141	0.05691	0.00135	0.1759	388	8	372	9	488	26	95.7
PM07−12.18	81	198	336	0.59	0.47197	0.01427	0.06163	0.00149	0.05554	0.00157	−29.6209	393	10	386	9	3048	19	−53.9
Plešovice	147	68	697	0.10	0.39361	0.0107	0.05371	0.00128	0.05316	0.00131	0.5030	337	8	337	8	336	55	100.1

Table S2. Major element (wt.%), and trace elements (ppm) compositions of samples from the Yitong Area.

Sample No.	DG075-1	DG075-2	DG075-3	DG075-4	D11-1-1	D11-1-2	D11-1-3	D11-1-4	J1917-2	J1917-5	PM07-9-2	PM07-9-4	PM07-9-5
SiO_2	50.09	52.13	50.99	52.69	66.89	68.00	66.47	68.91	55.67	58.90	53.52	48.07	50.18
TiO_2	1.07	0.98	1.01	0.95	0.61	0.57	0.50	0.54	1.10	0.92	0.65	0.56	0.64
Al_2O_3	16.42	16.81	16.66	16.46	14.53	14.25	15.30	14.14	17.50	16.54	17.47	13.65	16.65
Fe_2O_3	7.23	6.15	6.43	5.31	0.69	0.82	0.04	0.36	2.80	2.29	6.53	8.06	7.92
FeO	3.22	2.82	3.29	3.43	4.62	4.12	4.39	4.46	6.39	6.02	2.17	4.50	3.18
MnO	0.25	0.21	0.22	0.21	0.08	0.07	0.10	0.08	0.28	0.27	1.30	5.35	4.13
MgO	2.58	2.41	2.74	2.35	2.29	2.08	1.61	1.94	3.76	3.55	2.41	5.94	1.56
CaO	9.06	7.84	8.22	7.74	4.67	4.40	5.64	4.16	1.55	1.44	4.52	6.94	6.74
Na_2O	3.97	3.72	4.24	3.96	3.08	2.96	3.17	2.98	0.04	0.10	0.31	0.25	0.34
K_2O	5.30	5.85	5.28	5.88	1.72	1.74	1.41	1.74	5.93	5.75	7.53	3.31	5.41
P_2O_5	0.20	0.19	0.19	0.17	0.13	0.11	0.12	0.11	0.40	0.35	0.22	0.17	0.20
LOI	0.50	0.75	0.62	0.68	0.63	0.72	0.70	0.55	4.78	4.16	3.25	3.18	2.94
SUM	99.90	99.88	99.90	99.84	99.93	99.84	99.44	99.96	100.20	100.28	99.87	99.98	99.90
Na_2O+K_2O	9.27	9.57	9.52	9.84	4.80	4.71	4.58	4.72	5.97	5.84	7.84	3.56	5.76
K_2O/Na_2O	1.34	1.57	1.24	1.49	0.56	0.59	0.44	0.59	150.06	57.74	24.14	13.25	15.73
La	32.58	31.84	31.30	30.86	29.20	29.78	30.94	30.73	42.86	36.76	22.15	18.44	22.52
Ce	47.67	48.92	50.25	46.98	59.60	58.01	62.41	58.90	69.59	67.02	44.16	39.59	43.42
Pr	8.49	8.38	8.23	7.85	8.11	7.61	7.88	7.75	10.10	8.84	5.24	4.47	5.39
Nd	34.06	34.49	33.64	31.74	36.65	35.40	34.15	33.18	40.35	35.20	19.38	17.87	20.71
Sm	6.50	6.33	6.55	6.15	7.85	7.49	7.99	7.09	7.80	6.79	3.52	3.26	3.59
Eu	2.13	2.47	2.24	2.28	1.87	1.66	1.75	1.66	2.07	1.88	1.19	2.02	1.49
Gd	5.03	5.11	5.14	4.93	5.25	5.08	5.46	4.86	5.62	5.00	2.80	2.41	2.85
Tb	0.90	0.89	0.92	0.84	1.18	1.07	1.28	1.13	0.85	0.77	0.47	0.40	0.50
Dy	5.27	5.17	5.34	5.28	7.80	7.59	9.38	7.74	4.09	3.72	2.48	2.01	2.39
Ho	1.08	1.08	1.07	1.02	1.39	1.41	1.67	1.35	0.70	0.73	0.44	0.34	0.45
Er	2.78	2.80	2.92	2.76	5.40	5.17	6.52	4.88	1.88	1.93	1.31	1.08	1.60
Tm	0.54	0.55	0.57	0.52	1.13	1.09	1.41	1.02	0.31	0.31	0.21	0.19	0.23
Yb	3.57	3.57	3.58	3.42	6.47	6.46	8.70	6.23	1.99	2.04	1.53	1.25	1.48
Lu	0.57	0.54	0.57	0.53	0.88	0.92	1.25	0.86	0.29	0.29	0.23	0.20	0.26
Y	26.65	25.84	26.59	24.24	25.85	21.76	27.63	25.47	18.96	17.85	13.16	11.05	12.07
ΣREE	151.16	152.13	152.30	145.15	172.78	168.75	180.81	167.38	188.49	171.29	105.11	93.52	106.89

LREE	131.43	132.43	132.21	125.86	143.28	139.96	145.12	139.30	172.76	156.49	95.64	85.65	97.12
HREE	19.74	19.70	20.10	19.29	29.50	28.79	35.68	28.08	15.73	14.80	9.47	7.87	9.77
LREE/HREE	6.66	6.72	6.58	6.52	4.86	4.86	4.07	4.96	10.98	10.58	10.10	10.88	9.94
La_N/Yb_N	6.16	6.01	5.89	6.09	3.04	3.11	2.40	3.32	14.54	12.15	9.77	9.99	10.23
δEu	1.10	1.29	1.14	1.23	0.84	0.78	0.77	0.82	0.91	0.95	1.12	2.12	1.38
δCe	0.68	0.71	0.74	0.71	0.92	0.91	0.94	0.90	0.78	0.87	0.96	1.02	0.92
Rb	53.80	69.40	60.17	67.33	56.30	44.33	39.92	67.48	303.78	302.77	257.76	109.52	163.48
Ba	908.31	1172.88	897.23	1069.80	715.00	662.66	441.53	558.10	479.07	480.43	284.55	91.21	211.79
Th	6.04	6.60	7.01	6.74	3.63	4.80	9.13	6.42	9.76	9.48	4.26	3.66	3.62
U	2.16	2.12	2.28	2.04	0.88	0.80	4.69	1.24	2.54	2.30	1.69	1.42	1.09
Ta	0.80	0.61	0.83	0.51	0.60	1.51	3.52	2.60	0.50	0.57	0.47	0.99	0.47
Nb	13.18	13.29	13.76	12.50	7.45	12.06	14.47	12.75	10.77	11.16	3.06	1.80	3.63
Sr	342.30	431.00	366.30	434.37	418.00	377.95	353.10	383.10	61.20	50.47	161.52	263.92	326.04
Zr	138.90	136.50	140.80	134.24	156.68	163.73	145.90	184.22	111.55	107.18	149.13	136.44	171.07
Hf	4.56	4.65	4.81	4.50	11.40	10.92	11.39	12.42	3.79	3.73	3.82	2.74	3.72
Cr	70.51	67.60	68.99	68.22	30.82	28.82	24.70	29.69	8.82	10.09	3.05	2.35	2.50
Ni	38.95	39.87	40.13	39.29	6.56	5.92	5.34	6.15			2.74	3.96	3.83
Sc	19.24	18.49	18.72	17.15	15.56	14.59	13.48	15.09	20.31	17.75	5.28	4.67	5.07
Li	2.01	1.81	1.89	1.81	8.95	7.07	6.06	10.95	20.39	20.24	40.00	21.86	28.82
Be	1.12	1.26	1.24	1.34	1.16	0.94	1.43	1.43	3.89	3.94	5.77	3.37	4.00
Ga	15.43	16.54	15.93	15.25	17.65	13.17	15.17	18.33	29.26	28.30	23.18	12.59	18.00
Co	17.96	19.03	19.97	18.38	15.71	10.93	11.18	15.03	12.34	12.50	6.49	6.43	6.33
Pb	9.64	11.01	10.69	12.11	10.66	10.60	8.91	10.97	8.05	6.51	66.96	54.07	34.85
V	125.10	132.30	130.60	126.29	92.55	91.17	86.01	87.55	193.14	173.26	42.14	36.06	39.30
Ce_N/Ce^*	0.90	0.88	0.93	0.89									
Pr_N/Pr^*	0.94	0.90	0.94	0.95									
Tb_N/Tb^*	1.25	1.15	1.24	1.27									
Dy_N/Dy^*	1.23	1.20	1.29	1.28									
Tm_N/Tm^*	1.33	1.30	1.30	1.30									
Yb_N/Yb^*	1.16	1.14	1.15	1.17									
Y/Ho	18.59	15.41	16.52	18.83									
T1	0.08	0.11	0.06	0.08									

T3	0.24	0.18	0.27	0.27
t1	0.92	0.89	0.94	0.92
t3	1.24	1.18	1.27	1.27
t4	1.24	1.22	1.23	1.23

$Ce^*=La_N^{2/3} \times Nd_N^{1/3}$; $Pr^*=La_N^{1/3} \times Nd_N^{2/3}$; $Tb^*=Gb_N^{2/3} \times Ho_N^{1/3}$; $Dy^*=Gb_N^{1/3} \times Ho_N^{2/3}$; $Tm^*=Er_N^{2/3} \times Lu_N^{1/3}$; $Yb^*=Er_N^{1/3} \times Lu_N^{2/3}$; $t1=([Ce_N/Ce^* \times Pr_N/Pr^*])^{1/2}$; $t3=([Tb_N/Tb^* \times Dy_N/Dy^*])^{1/2}$; $t4=([Tm_N/Tm^* \times Yb_N/Yb^*])^{1/2}$ [146]; $T1=\sqrt{1/2\,([Ce_N/Ce^*-1)]^2+([Pr_N/Pr^*-1)]^2}$; $T3=\sqrt{1/2\,([Tb_N/Tb^*-1)]^2+([Dy_N/Dy^*-1)]^2}$ [147].

Table S3. Lu-Hf isotopic compositions of zircons from the Yitong area.

Analyticl spot	Age (Ma)	$^{176}Yb/^{177}Hf$	$^{176}Lu/^{177}Hf$	$^{176}Hf/^{177}Hf$	I_{Hf}	$\varepsilon_{Hf}(0)$	$\varepsilon_{Hf}(t)$	t_{DM1}(Ma)	t_{DM2}(Ma)	$f_{Lu/Hf}$
D11−3	426	0.027743	0.001126	0.282528	0.282519	−8.62	0.44	1027	1379	−0.97
D11−4	424	0.031722	0.001300	0.282605	0.282594	−5.92	3.05	924	1213	−0.96
D11−5	453	0.019222	0.000809	0.282577	0.282571	−6.88	2.85	950	1248	−0.98
D11−7	437	0.028572	0.001194	0.282624	0.282615	−5.22	4.06	893	1159	−0.96
D11−8	451	0.016931	0.000717	0.282546	0.282540	−8.00	1.71	992	1318	−0.98
D11−11	445	0.031160	0.001267	0.282645	0.282634	−4.51	4.92	866	1111	−0.96
D11−12	451	0.022954	0.000982	0.282615	0.282606	−5.56	4.08	902	1169	−0.97
D11−13	422	0.045779	0.001786	0.282651	0.282637	−4.29	4.50	870	1120	−0.95
D11−15	422	0.033308	0.001324	0.282599	0.282588	−6.13	2.79	933	1228	−0.96
D11−16	425	0.027606	0.001105	0.282531	0.282522	−8.51	0.53	1022	1373	−0.97
D11−17	422	0.030951	0.001277	0.282656	0.282646	−4.09	4.85	850	1098	−0.96
D11−18	429	0.028280	0.001185	0.282631	0.282622	−4.98	4.12	883	1149	−0.96
D11−19	426	0.019280	0.000781	0.282611	0.282605	−5.68	3.48	902	1187	−0.98
D11−20	425	0.026336	0.001116	0.282605	0.282597	−5.89	3.15	918	1207	−0.97
D11−22	459	0.022504	0.000914	0.282608	0.282600	−5.81	4.02	910	1178	−0.97
D11−25	422	0.025871	0.001122	0.282696	0.282688	−2.67	6.31	790	1005	−0.97
J1917−1	393	0.071636	0.002723	0.282776	0.282756	0.15	8.10	706	869	−0.92
J1917−4	393	0.076253	0.002900	0.282770	0.282749	−0.06	7.84	719	885	−0.91
J1917−5	394	0.059717	0.002252	0.282863	0.282846	3.21	11.28	571	666	−0.93
J1917−9	393	0.049080	0.001945	0.282815	0.282800	1.50	9.65	636	770	−0.94
J1917−11	388	0.072304	0.002767	0.282840	0.282820	2.42	10.25	612	728	−0.92
J1917−15	391	0.077897	0.002914	0.282855	0.282833	2.93	10.78	593	696	−0.91
J1917−18	391	0.071828	0.002755	0.282880	0.282860	3.83	11.73	552	636	−0.92
J1917−19	389	0.068908	0.002580	0.282838	0.282820	2.34	10.25	612	729	−0.92
J1917−27	390	0.082438	0.003117	0.282767	0.282744	−0.19	7.59	729	899	−0.91
J1917−29	384	0.088314	0.003169	0.282723	0.282700	−1.74	5.90	796	1001	−0.90

Table S4. Sr-Nd isotopic compositions of samples from the Yitong area.

Sample No.	Age (Ma)	$^{87}Rb/^{86}Sr$	$^{87}Sr/^{86}Sr$	$^{147}Sm/^{144}Nd$	$^{143}Nd/^{144}Nd$	I_{Sr}	t_{DM1}	t_{DM2}	$\varepsilon_{Nd}(t)$	$f_{Sm/Nd}$
D11−1−1	423.8	0.3900	0.708816	0.1154	0.512430	0.70646	1119	1138	0.35	−0.41
DG075−1	425	0.4551	0.707837	0.1154	0.512663	0.70508	758	767	4.91	−0.41
DG075−2	425	0.4663	0.707814	0.1110	0.512716	0.70499	647	663	6.18	−0.44
J1917−2	388.4	14.3736	0.754953	0.1168	0.512628	0.67546	823	828	3.77	−0.41
J1917−5	388.4	17.3727	0.764075	0.1166	0.512542	0.66800	956	964	2.11	−0.41