

Table S1. The information of sample sites and number of bumblebees collected in this study

Province	County	Site	Altitude	Species	Number
Hebei	Longhua	Longhua	553	<i>B. patagiatus</i>	30
				<i>B. ignitus</i>	30
Hebei	Xinglong	Wulingshan	905	<i>B. patagiatus</i>	30
				<i>B. ignitus</i>	24
Shanxi	Fangshan	Beiwudang	1372	<i>B. patagiatus</i>	15
Shanxi	Jiaochen	Pangquangou	1482	<i>B. pyrosoma</i>	30
Yunnan	Kaiyuan	Dazhuang	2467	<i>B. friseanus</i>	30
Yunnan	Mengzi	Lengquan	1583	<i>B. breviceps</i>	30
Jiangsu	Yixing	Hufu	66	<i>B. trifasciatus</i>	30
Jiangxi	Nanchang	Wanli_Meiling	186	<i>B. trifasciatus</i>	30
Shannxi	Zhashui	Yingpan	1116	<i>B. longipes</i>	14
Shannxi	Yangxian	Huayang	2289	<i>B. trifasciatus</i>	30
Zhejiang	Hangzhou	Chunan_Zhaitang	131	<i>B. braccatus</i>	28
Xinjiang	Hejing	Dukugonglu	2820	<i>B. lucorum</i>	18
				<i>B. keriensis</i>	29
Xinjiang	Mulei	Shuimogou	1608	<i>B. cryptarum</i>	22
				<i>B. turkestanicus</i>	30
				<i>B. cullumanus</i>	15
				<i>B. subterraneus</i>	29
				<i>B. soroeensis</i>	5
				<i>B. armeniacus</i>	14
Qinghai	Guide	Garang	2777	<i>B. lantschouensis</i>	30
Gansu	Huixian	Lichuan	1520	<i>B. longipes</i>	9
Gansu	Diebu	Zhagana	3277	<i>B. convexus</i>	16
				<i>B. rufofasciatus</i>	30
Gansu	Tianzhu	Shimen	2612	<i>B. waltoni</i>	20
Gansu	Zhuoni	Daogao	2846	<i>B. lepidus</i>	30
				<i>B. pyrosoma</i>	30
Gansu	Kangle	Huguan	1978	<i>B. pyrosoma</i>	30
Sichuan	Nuoergai	Tangke	3500	<i>B. friseanus</i>	16
				<i>B. keriensis</i>	29
				<i>B. sushkinis</i> s.l.	18
Total numbers					771