

Supplementary material

Table S1. The change rate and publication bias test results of SOC, soil salt content, soil total N, soil available P, and soil available K

Variables	RR (%)	CI (%)		P	Q	P <sub>Q</sub>	n	Z <sub>B</sub>	P <sub>B</sub>	Fail safe number
		LL	UL							
SOC	34.82	25.73	44.96	0.876	90.34	0.000	108	1.763	0.078	2246.1
Soil salt content	-47.75	-54.15	-41.09	0.000	103.36	0.000	51	-0.625	0.532	3732.3
Soil total N	32.23	25.79	39.00	0.000	140.66	0.000	77	5.612	0.000	3457.4
Soil available P	34.34	21.65	46.09	0.000	130.51	0.000	66	-0.113	0.910	1713.1
Soil available K	17.25	7.35	29.48	0.979	48.91	0.000	72	-0.183	0.855	908.7

Notes:

Table S2. Results of random effects model inter-group heterogeneity testing.

Variables	Subgroup	Between Group Heterogeneity	
		Q <sub>m</sub>	P <sub>m</sub>
SOC	MAP	30.64	0.001
	MAT	8.15	0.017
	Green manure type	3.20	0.2019
	Initial soil salt content	5.21	0.1571
	Experimental years	9.13	0.1662
	Returning methods	1.57	0.2106
Soil salt content	MAP	0.34	0.5576
	MAT	0.61	0.7357
	Green manure type	1.76	0.1849
	Initial soil salt content	55.33	0.000
	Experimental years	32.79	0.000
	Returning methods	5.09	0.024
Soil total N	MAP	12.54	0.0058
	MAT	8.01	0.018
	Green manure type	14.63	0.0006
	Initial soil salt content	1.39	0.7078
	Experimental years	53.00	0.000
	Returning methods	3.08	0.079
Soil available P	MAP	25.74	0.0001
	MAT	0.86	0.6496
	Green manure type	2.81	0.245
	Initial soil salt content	0.43	0.9332
	Experimental years	19.15	0.0007
	Returning methods	0.14	0.705
Soil available K	MAP	34.88	0.000
	MAT	12.29	0.002
	Green manure type	1.43	0.488
	Initial soil salt content	14.62	0.002
	Experimental years	0.57	0.9661

Returning methods

2.50

0.1135

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