

The Impact of Humic Acid Fertilizers on Crop Yield and Nitrogen

Use Efficiency: A meta-analysis

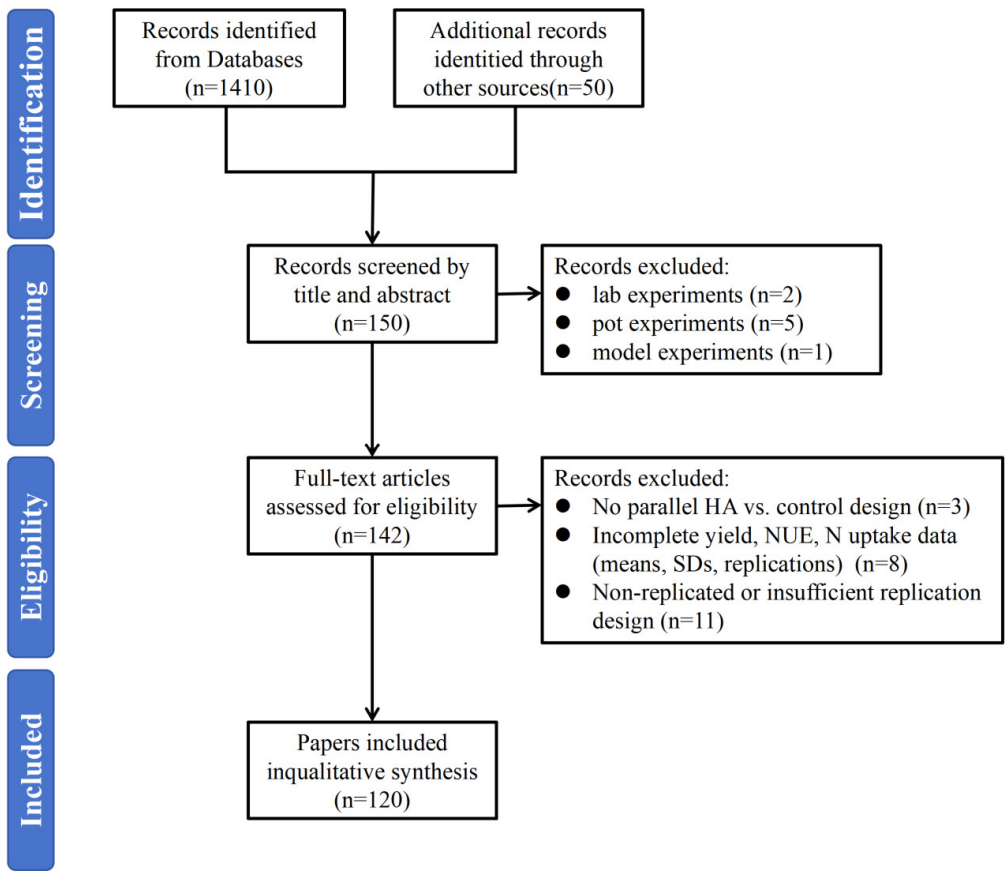


Figure S1 Literatures retrieval and screening process

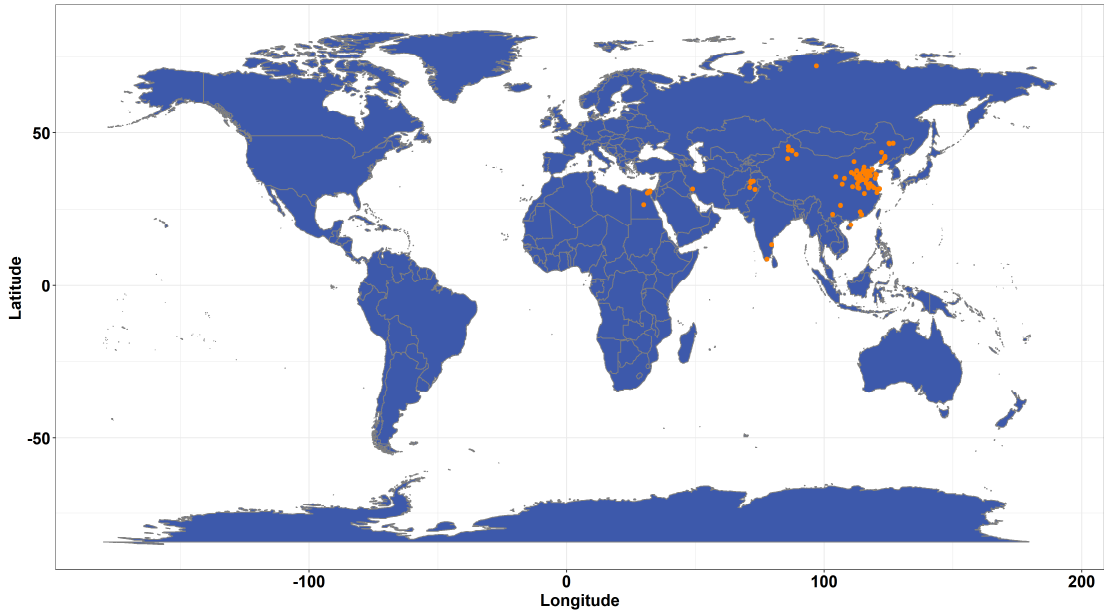


Figure S2. The geographical locations of the study sites included in this analysis

Table S1 Comparison of different subgroups

Category types		Yield	NUE	N uptake
Category 1	Category 2	P		
MAT≤10	10<MAT≤20	0.68	0.34	0.22
MAT≤10	MAT>20	0.92	0.24	0.93
10<MAT≤20	MAT>20	0.49	0.56	<0.05
MAP≤300	300<MAP≤600	<0.05	<0.05	0.24
MAP≤300	MAP>600	0.74	<0.05	0.35
300<MAP≤600	MAP>600	<0.05	0.28	0.71
Upland cereal	Paddy rice	0.70	0.85	57
Upland cereal	Cash crop	0.83	0.48	<0.05
Paddy rice	Cash crop	0.85	0.74	0.10
NAR≤100	100<NAR≤200	0.35	0.71	<0.05
NAR≤100	NAR>200	0.98	0.17	0.32
100<NAR≤200	NAR>200	0.44	0.21	0.28
Single fertilization	Split fertilization	0.35	0.71	0.22
pH≤6	6<pH≤8	0.23	0.14	0.97
pH≤6	pH>8	0.65	0.17	0.13
6<pH≤8	pH>8	<0.05	<0.05	<0.05
SOC≤10	SOC>10	0.62	0.86	<0.05
TN≤0.8	0.8<TN≤1.2	0.20	0.20	<0.05
TN≤0.8	TN>1.2	<0.05	<0.05	0.28
0.8<TN≤1.2	TN>1.2	<0.01	<0.01	0.51