

Figure S1. Composting reactor. 1. Screen; 2. air outlet; 3. water intake; 4. reactor; 5. air intake; 6. sampling collection port; 7. temperature sensor; 8. stirring paddle; 9. rotating shaft; 10. raw material inlet; 11. water outlet; 12. fixed rod; 13. support bottom plate.

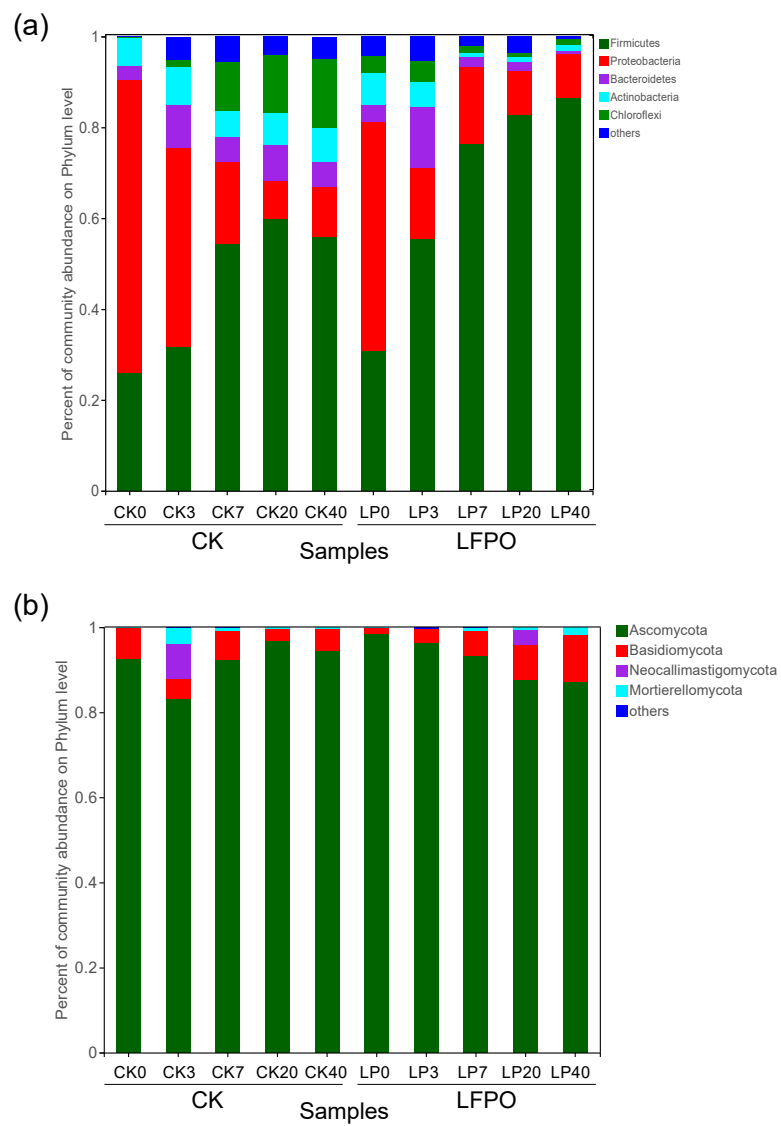


Figure S2. (a) The relative abundance of bacterial taxa at the phylum level. (b) The relative abundance of fungal taxa at the phylum level;

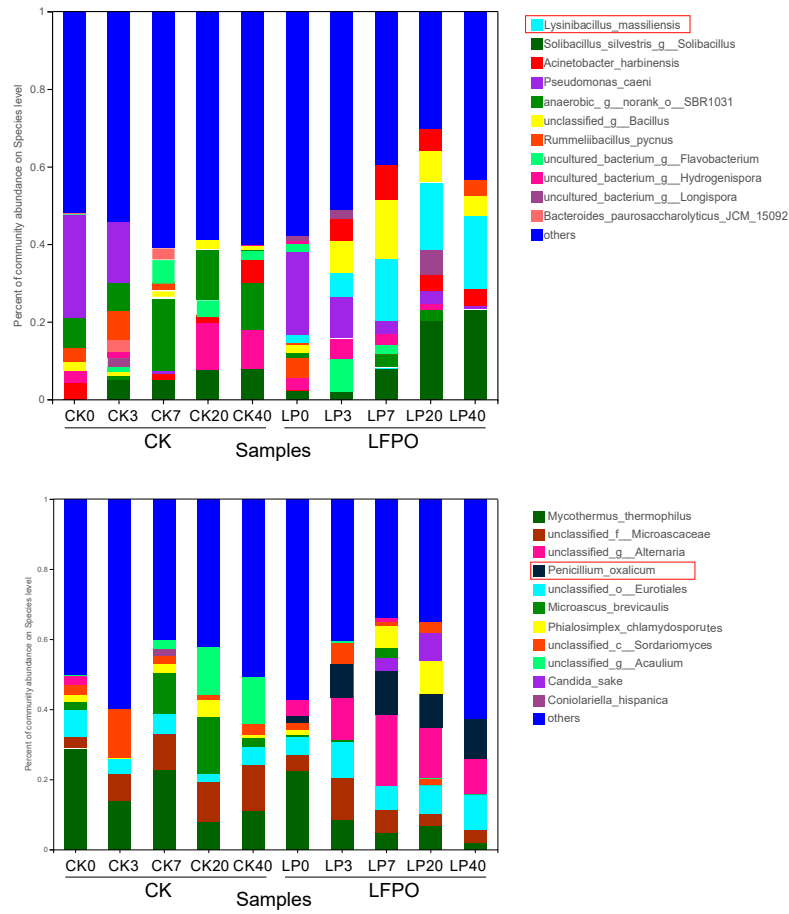


Figure S3. (a) The relative abundance of bacterial taxa at the species level. (b) The relative abundance of fungal taxa at the species level;

Table S1. The topological parameters of co-networks.

Object	Parameters	CK	LFPO
Network Overview	Average Degree	5.934	3.447
	Network Diameter	12	9
	Graph Density	0.099	0.075
	Modularity	0.654	0.641
Node Overview	Connected components	3	3
	Nodes number	61	46
	Clustering Coefficient	0.337	0.632
Edge Overview	Eigenvector Centrality (100run)	0.0097	0.0054
	Edge number	181	95
Overview	Path length	5.058	4.072