Supplementary Table S1. Network topology structure of AOA, AOB, comammox clade-A, and comammox clade-B.

	Treatment	Vertice	Edge	Modularity
AOA	CCK	303	4936	0.4407
	CRT	355	6141	0.4859
	ICK	399	8113	0.6096
	IRT	457	10587	0.6198
AOB	CCK	180	510	0.6925
	CRT	281	824	0.6816
	ICK	370	1913	0.7063
	IRT	136	270	0.8025
comammox clade-A	CCK	106	1441	0.3801
	CRT	169	3057	0.4380
	ICK	206	5290	0.5666
	IRT	164	3874	0.4676
comammox clade-B	CCK	139	574	0.5805
	CRT	164	641	0.6011
	ICK	149	608	0.6474
	IRT	157	617	0.6409