

Supplementary material for

Impact of drying–rewetting cycles and organic amendments on phosphorus speciation of paddy soil

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Table S1. Sampling and incubation time table of different treatments used in the experiment (revised of Chen *et al.* 2016)

Treatments	Wetting cycles	Drying cycles	Sampling intervals
Constant soil moisture (CSM)	The entire period at 130%WHC moisture	0	0-15-30-45-60 days
Mild drying–rewetting (MDR)	2 times (from first to 10 th day and 30 th to 45 th) at 130%WHC moisture	2 times (from 10 th to 20 th day and 45 th to 60 th) at 100%WHC moisture	0-15-30-45-60 days
Sever drying–rewetting (SDR)	2 times (from first to 10 th day and 30 th to 45 th) at 130%WHC moisture	2 times (from 10 th to 20 th day and 45 th to 60 th) at 100%WHC moisture	0-15-30-45-60 days

Table S2. Analysis of variance

Source	df	Mean Square									
		AP-wet	AP-dry	Org-P	SP	MBP	APhase	PPiases	TC	TP	C/P
Block	2	4.51	2.9	170	0.02	1.3	17.1	1.58	0.0006	77	0.037
Drying-rewetting cycles (DRW)	2	262**	1027**	17661**	0.126**	407	352**	73.2**	0.012*	0.5	3.73**
Amendment (Ame)	2	1405**	471**	44543**	24.7**	2469**	1633**	0.49	8.28**	80073**	2266**
DRW*Ame	4	160**	109**	533**	0.32**	130	1854**	21.51**	0.036**	12.38	10.53**
Block (DRW*Ame)	16	3.11	14	291	0.021**	2	23.7**	1.32	0.0077	219	2.29**
Time (T)	4	565**	2232	24733**	2**	358*	3422**	165**	0.06**	32	18**
DRW*T	8	74**	144**	4609**	0.57**	88	813**	23.7**	0.0044**	6.7	1.23*
Ame*T	8	175**	72**	1829**	0.287**	159	5143**	1.37	0.019**	10.87	4.89**
Ame*T*DRW	16	92.7**	228**	2109**	0.0739**	70	1452**	31.2**	0.0121**	15.58	3.47**
CV		8.2	7	6.7	8.6	6.5	10.3	8.6	2.4	2.9	2.92