Supplemental material

Table S1 Three–way ANOVA analysis of urea–N application, DMPP addition and sampling date on soil pH, leachate pH and leachate N loss. (*p* values in boldface indicate significant effects)

Treatments	Soil pH	Leachate pH	NH_4^+–N loss	NO_3^-–N loss	Inorganic N loss
Urea-N	**<0.001**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
DMPP	**<0.05**	**<0.001**	**<0.001**	**<0.001**	**<0.001**
Sampling date	**<0.001**	**<0.001**	**<0.001**	**<0.05**	**<0.001**
Urea–N × Sampling date	**<0.001**	**<0.001**	**<0.001**	**<0.01**	**=0.001**
DMPP × Sampling date	=0.60	**<0.001**	=0.06	**<0.001**	**<0.001**
Urea–N × DMPP	**<0.001**	**<0.001**	**<0.001**	=0.14	**=0.02**
Urea–N × DMPP × Sampling date	**<0.05**	**<0.01**	**<0.001**	**<0.05**	**<0.001**

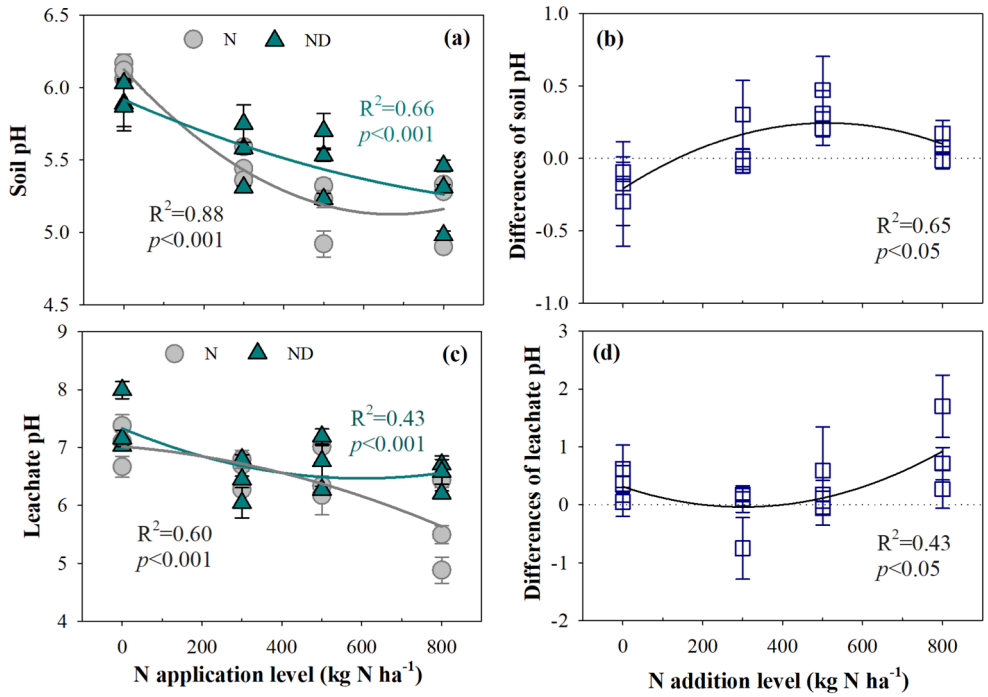

Figure S1 Relationships of DMPP with mean soil pH (a)/leachate pH (c) and with the differences of mean soil pH (b)/ leachate pH (d) between treatment and control (Grey dots: soil/leachate pH under N fertilizer; green triangles: soil/leachate pH under N+DMPP; N: N fertilizer; ND: N+DMPP)

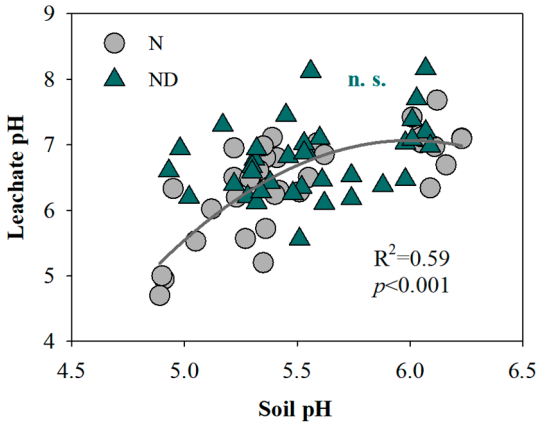

Figure S2 Relationship of soil pH and leachate pH with increasing urea–N rates across DMPP addition (Grey dots: urea–N application; green triangles: urea–N+DMPP combination)

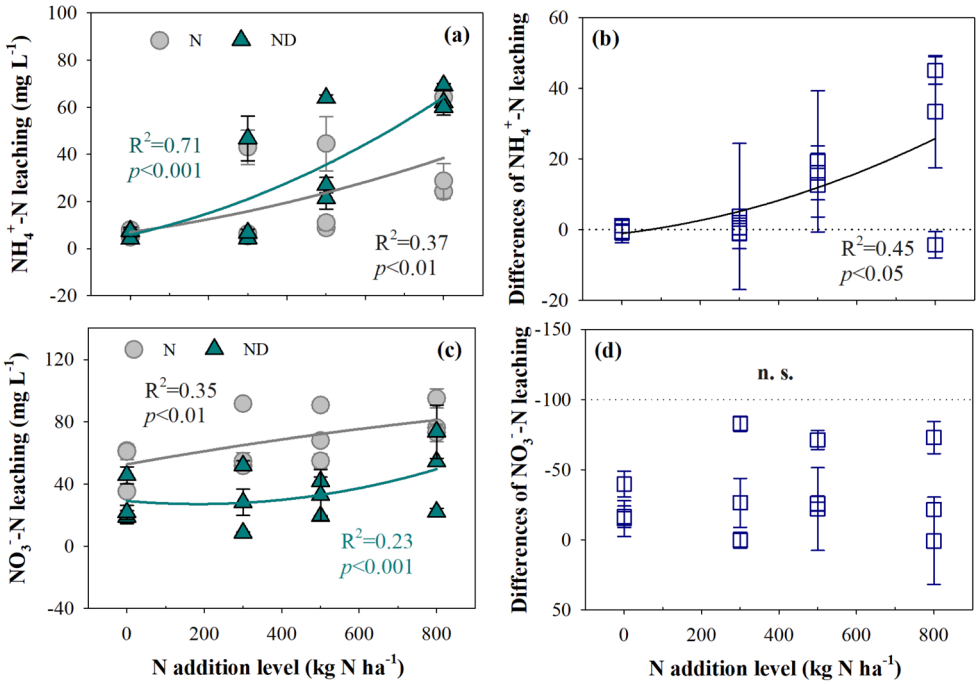

Figure S3 Relationships of DMPP with leachate NH_4^+–N (a)/NO_3^-–N (c) and with the differences of mean leachate NH_4^+–N (b)/leachate NO_3^-–N (d) between treatment and control (Grey dots: leachate NH_4^+–N/NO_3^-–N under N fertilizer; green triangles: leachate NH_4^+–N/NO_3^-–N under N+DMPP; N: N fertilizer; ND: N+DMPP)