

Table S1. Dry matter production and brown rice yield in the present study.

Temperature treatment	Si application	Dry matter production				Brown rice yield (g pot ⁻¹)
		Straw (g pot ⁻¹)		Panicle (g pot ⁻¹)		
Ambient	Control	16.7	± 3	20.7	± 0.2	19.7 ± 0.2
Mild high	Control	15.5	± 2	14.4	± 2.4	12.5 ± 2.1
Moderate high	Control	15.6	± 2.4	12.3	± 0.9	10.3 ± 0.7
Super high	Control	15.5	± 1.1	11.7	± 0.1	9.9 ± 0.2
Ambient	Calcium silicate slug	20.3	± 1.7	25.1	± 2.7	23.9 ± 2.5
Mild high	Calcium silicate slug	21.9	± 0.9	19.1	± 1.2	16.6 ± 1.2
Moderate high	Calcium silicate slug	25.2	± 5.1	18.9	± 5.3	16.4 ± 4.6
Super high	Calcium silicate slug	25	± 2.8	21.1	± 3.4	18.2 ± 3.2

Mean values ± standard errors ($n = 3$).

Table S2. Concentrations of arsenic (As) species in brown rice in the present study.

Temperature treatment	Si application	Inorganic As (mg kg ⁻¹)			DMA (mg kg ⁻¹)			MMA (mg kg ⁻¹)			Sum of As species (mg kg ⁻¹)			Total As (mg kg ⁻¹)		
Ambient	Control	0.27	±	0.037 (73)	0.081	±	0.008 (22)	0.006	±	0.001 (1.6)	0.356	±	0.043 (97)	0.373	±	0.037
Mildly-high	Control	0.342	±	0.048 (72)	0.094	±	0.012 (20)	0.003	±	0.000 (0.6)	0.44	±	0.050 (93)	0.475	±	0.048
Moderately-high	Control	0.344	±	0.041 (71)	0.104	±	0.031 (21)	0.003	±	0.001 (0.7)	0.451	±	0.057 (93)	0.485	±	0.041
Super-high	Control	0.353	±	0.028 (74)	0.101	±	0.011 (21)	0.004	±	0.002 (0.8)	0.458	±	0.023 (96)	0.478	±	0.028
Ambient	Calcium silicate slug	0.25	±	0.015 (78)	0.049	±	0.007 (15)	0.005	±	0.001 (1.7)	0.304	±	0.006 (96)	0.319	±	0.015
Mildly-high	Calcium silicate slug	0.317	±	0.015 (73)	0.068	±	0.01 (16)	0.003	±	0.001 (0.7)	0.388	±	0.023 (90)	0.432	±	0.015
Moderately-high	Calcium silicate slug	0.317	±	0.035 (73)	0.078	±	0.015 (18)	0.004	±	0.001 (0.9)	0.399	±	0.01 (93)	0.433	±	0.035
Super-high	Calcium silicate slug	0.334	±	0.025 (75)	0.093	±	0.012 (21)	0.005	±	0.002 (1.2)	0.433	±	0.037 (97)	0.447	±	0.025

Mean values ± standard errors ($n = 3$). Numbers in parentheses indicate the percentage of each As species to total As.