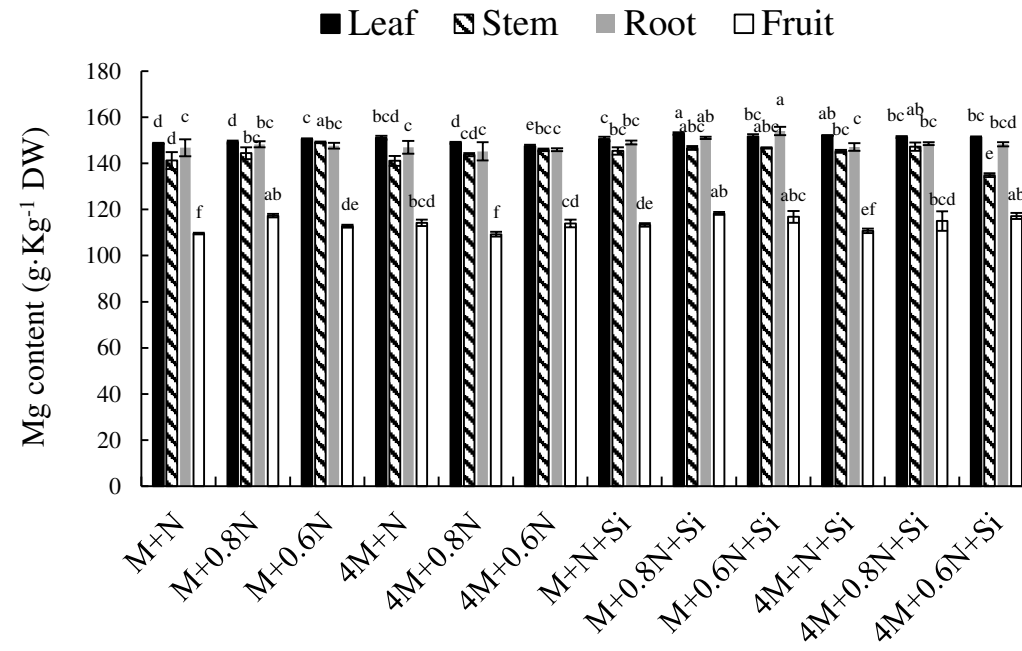


Supplementary figure S1



Supplementary figure S1: Effects of reducing nitrogen fertilizer and increasing silicon fertilizer combined with organic fertilizer on Mg contents in leaves, stems, roots and fruits of tomato plants. Data are shown as means \pm standard deviation of three replicates. Means denoted by different letters indicate statistically significant differences at $P \leq 0.05$. The different textures of the bar charts indicated different parts/tissues of tomato plants, the letters on the figure show the significant differences among treatments under the same tissue of tomato plants.

Table S1. The comprehensive factor score (Y value) of macro elements related indicators and the ranking of each processing method.

Treatments	Y_1	Y_2	Y_3	Y_4	Y	Order
M+N	-3.315	0.852	1.025	0.734	-1.029	10
M+0.8N	-1.999	-0.154	0.257	1.221	-0.720	9
M+0.6N	-1.868	-3.314	-0.629	0.962	-1.431	11
4M+N	-2.781	-0.303	-0.670	-2.931	-1.635	12
4M+0.8N	-0.616	0.824	-1.034	-0.103	-0.252	8
4M+0.6N	-0.532	1.400	0.042	0.034	0.057	6
M+N+Si	0.212	0.958	2.026	0.514	0.606	5
M+0.8N+Si	2.769	0.202	1.558	-0.313	1.397	1
M+0.6N+Si	3.235	-2.827	0.701	-0.499	0.866	4
4M+N+Si	0.196	0.185	-0.631	0.135	0.048	7
4M+0.8N+Si	2.495	0.949	-2.735	0.946	0.973	3
4M+0.6N+Si	2.204	1.228	0.091	-0.700	1.119	2

Table S2. The comprehensive factor score (Y value) of trace elements related indicators and the ranking of each treatment method.

Treatments	Y_1	Y_2	Y_3	Y_4	Y	Order
M+N	-3.907	0.354	1.503	0.364	-1.415	12
M+0.8N	-1.678	-1.854	1.528	0.484	-0.797	8
M+0.6N	-2.395	-2.295	0.244	0.996	-1.286	11
4M+N	-1.729	0.148	-1.762	-2.367	-1.162	10
4M+0.8N	-2.817	2.053	-1.089	0.329	-0.983	9
4M+0.6N	-1.183	0.896	0.701	-0.752	-0.352	7
M+N+Si	0.875	-1.718	-1.886	0.049	-0.125	6
M+0.8N+Si	2.960	-1.747	0.002	-0.553	0.942	4
M+0.6N+Si	4.195	-0.451	-0.016	1.109	1.844	1
4M+N+Si	1.407	0.701	-1.189	-0.407	0.540	5
4M+0.8N+Si	1.204	2.443	-0.586	2.264	1.064	3
4M+0.6N+Si	3.068	1.470	2.551	-1.514	1.730	2