Table S1. F-statistics and *p*-values from the analysis of variance for stomatal conductance (g_s), net CO_2 assimilation (A), transpiration rate (E), relative water content (RWC), electrolyte leakage (EL), yield, number of fruits per plant (NFP), mean fruit mass (MFM), fruit shape index (FSI), number of seeds per fruit (NS), seeds mass, seedless pulp mass, pulp pH, titratable acidity (TA), total soluble solids (TSS), and the TSS/TA ratio of yellow passion fruit grown under different silicon doses, with and without plant-residue mulch.

Source of variation	**D. F.**	***g_s***		***A***		***E***		**RWC**		**EL**		**Yield**		**NFP**		**MFM**	
		F	***p-value***	***F***	***p-value***	***F***	***p-value***	***F***	***p-value***	***F***	***p-value***	***F***	***p-value***	***F***	***p-value***	***F***	***p-value***
Block	3	1.9062	0.1524	2.2846	0.1015	0.7326	0.5416	10.5283	<0.0001	1.9062	0.1524	0.8466	0.4805	2.1937	0.1119	0.0276	0.9937
Si dose	4	68.6125	<0.0001	4.5793	0.0059	4.6231	0.0057	87.8595	<0.0001	68.6125	<0.0001	26.0997	<0.0001	22.2195	<0.0001	13.9851	<0.0001
Mulch	1	0.1163	0.7358	21.8052	<0.0001	7.5580	0.0105	2.1580	0.1534	0.1163	0.7358	88.2296	<0.0001	79.1837	<0.0001	36.0236	<0.0001
Si dose × mulch	4	5.2636	0.0029	2.8451	0.0433	0.6826	0.6101	5.3000	0.0028	5.2636	0.0029	2.9311	0.0390	8.3077	0.0002	2.7310	0.0498
C. V. (%)	–	14.02		14.15		16.04		3.02		7.53		15.15		8.97		10.91	
Source of variation	**D. F.**	**FSI**		**NSF**		**Seeds mass**		**Pulp mass**		**Pulp pH**		**TA**		**TSS**		**TSS/TA ratio**	
		F	***p-value***	***F***	***p-value***	***F***	***p-value***	***F***	***p-value***	***F***	***p-value***	***F***	***p-value***	***F***	***p-value***	***F***	***p-value***
Block	3	0.4727	0.7039	2.7643	0.0612	0.2607	0.8530	0.5378	0.6604	0.0585	0.9810	0.6816	0.5710	0.5861	0.6293	0.2623	0.8519
Si dose	4	15.8921	<0.0001	16.2331	<0.0001	5.4561	0.0024	6.0510	0.0013	5.5422	0.0022	2.4863	0.0672	6.5771	0.0008	5.4009	0.0025
Mulch	1	0.4579	0.5044	71.0448	<0.0001	13.0412	0.0012	19.5267	0.0001	2.3625	0.1359	0.0840	0.7742	0.5676	0.4577	0.0732	0.7888
Si dose × mulch	4	0.9415	0.4551	4.5761	0.0060	1.5387	0.2192	1.7562	0.1669	1.9321	0.1339	1.4479	0.2455	0.8701	0.4946	1.0253	0.4121
C. V. (%)	–	5.91		7.62		18.78		18.03		12.33		14.91		10.48		16.22	

Notes: Si, silicon; DF, degrees of freedom. The model included block, Si dose, mulch, and the Si dose × mulch interaction. Silicon dose was treated as a categorical factor with five levels. All F-tests used the residual mean square as the denominator (27 DF). Analyses were performed on data from 40 experimental plots arranged in four blocks, with each plot constituting an experimental unit. Statistical significance was assessed at $\alpha = 0.05$.