Supplementary table S1 Chemical composition of the cutin matrix in the pitaya fruit peel (μg cm^{-2}). Data are given as means ± standard deviations (n = 5).

Carbon numbers/compounds	µg cm^{-2}			%		
	Average		SD	Average		SD
Fatty acids						
15	0.10	±	0.04	0.20	±	0.11
16	1.64	±	0.39	3.23	±	0.58
18:2	0.11	±	0.04	0.21	±	0.05
18:1	0.54	±	0.30	1.14	±	0.82
18	0.67	±	0.86	1.49	±	2.17
22	0.41	±	0.15	0.80	±	0.28
24	0.17	±	0.17	0.38	±	0.43
32	0.12	±	0.06	0.24	±	0.14
ω-Hydroxy fatty acids						
16	1.87	±	0.41	3.66	±	0.40
18:2	0.89	±	0.58	1.82	±	1.36
18:1	4.12	±	2.69	7.88	±	4.57
mid-OH-ω-Hydroxy fatty acids						
16:1	0.82	±	0.32	1.58	±	0.41
16	19.20	±	4.17	37.45	±	3.43
18	0.37	±	0.07	0.72	±	0.05
mid-epoxy-ω-Hydroxy fatty acids						
18:1	0.87	±	0.71	1.69	±	1.46
18	7.23	±	2.61	13.98	±	3.56
mid-epoxy-α,ω-Dicarboxylic fatty acids						
18	0.12	±	0.08	0.26	±	0.21
mid-OH-α,ω-Dicarboxylic fatty acids						
16	0.78	±	0.37	1.47	±	0.49
Phenolics						
cis-coumaric acid	0.44	±	0.13	0.84	±	0.15
trans-coumaric acid	1.25	±	0.59	2.36	±	0.82
p-coumaric acid derivatives	1.18	±	0.83	2.20	±	1.28
Unidentified	7.34	±	4.33	15.16	±	9.78
Total	50.84	±	7.40			

Supplementary table S2 Wax composition of the pitaya fruit cuticle (μg cm^{-2}). Data are given as means ± standard deviations (n = 5).

	μg cm^{-2}			%		
Carbon numbers	Average		SD	Average		SD
Fatty acids						
16	2.48	±	0.63	8.14	±	1.83
17	0.33	±	0.24	1.08	±	0.75
18:1	0.22	±	0.06	0.74	±	0.19
18:2	0.41	±	0.12	1.34	±	0.35
18	2.60	±	0.65	8.57	±	1.97
20	0.03	±	0.00	0.11	±	0.00
22	0.09			0.07		
23	0.25	±	0.04	0.81	±	0.11
24	0.04	±	0.02	0.13	±	0.05
28	0.14	±	0.03	0.47	±	0.08
30	0.09	±	0.09	0.28	±	0.30
31	0.07	±	0.05	0.22	±	0.15
Primary alcohols						
22	0.62	±	0.13	2.04	±	0.38
24	0.08	±	0.06	0.26	±	0.18
26	0.19	±	0.07	0.62	±	0.22
28	0.58	±	0.34	1.89	±	1.08
29	0.19	±	0.07	0.62	±	0.20
30	0.35	±	0.17	1.14	±	0.52
***n*-Alkanes**						
20	0.03	±	0.01	0.09	±	0.02
21	0.07	±	0.03	0.25	±	0.11
22	0.05	±	0.02	0.17	±	0.06
23	0.13	±	0.07	0.43	±	0.24
25	0.63	±	0.46	1.09	±	1.59
26	0.04	±	0.04	0.14	±	0.14
27	0.13	±	0.06	0.42	±	0.23
28	0.08	±	0.04	0.27	±	0.13
29	0.19	±	0.06	0.63	±	0.23
30	0.15	±	0.08	0.48	±	0.25
31	1.29	±	0.11	4.29	±	0.53
32	0.38	±	0.03	1.24	±	0.08
33	2.19	±	0.17	7.25	±	0.74
34	0.15	±	0.07	0.50	±	0.21
35	0.10	±	0.04	0.33	±	0.14
Aldehydes						
30	0.04	±	0.02	0.12	±	0.05
Sterols						
stigmasterol	0.31	±	0.01	1.01	±	0.06

camposterol	0.05	±	0.03	0.18	±	0.12
beta-sitosterol	0.46	±	0.06	1.52	±	0.19
Triterpenoids						
ursolic acid	0.43	±	0.21	1.42	±	0.66
maslinic acid	0.21	±	0.07	0.69	±	0.21
beta-amyrinon	1.66	±	0.44	5.53	±	1.58
germanicol	0.29	±	0.21	0.97	±	0.74
lupenon	2.96	±	0.59	9.78	±	1.98
beta-amyrin	0.92	±	0.25	3.04	±	0.80
alpha-amyrin	0.82	±	0.17	2.71	±	0.57
lupeol	0.56	±	0.19	1.85	±	0.57
uvaol	5.69	±	0.42	18.78	±	0.55
Unidentified	1.89	±	0.19	6.25	±	0.74
Total	30.30	±	1.47			