

**Table S1.** The 30 unidentified VOCs in bamboo leaves.

Compound	CAS#	Formula	MW	RI	RC (%)	CRC (%)
1	unidentified	*	0	1088.8	0.16	27.9
2	unidentified	*	0	1008	0.34	
3	unidentified	*	0	1036.5	0.94	
4	unidentified	*	0	1010.2	0.83	
5	unidentified	*	0	989.7	0.50	
6	unidentified	*	0	1033.5	0.58	
7	unidentified	*	0	1033.9	0.44	
8	unidentified	*	0	1088.4	0.39	
9	unidentified	*	0	870.1	0.12	
10	unidentified	*	0	938.2	1.31	
11	unidentified	*	0	919	0.10	
12	unidentified	*	0	912	0.18	
13	unidentified	*	0	779.1	1.07	
14	unidentified	*	0	781.8	0.82	
15	unidentified	*	0	775.7	0.78	
16	unidentified	*	0	761.4	0.64	
17	unidentified	*	0	787.1	0.35	
18	unidentified	*	0	741.8	1.30	
19	unidentified	*	0	721.4	1.13	
20	unidentified	*	0	717.6	0.79	
21	unidentified	*	0	713.8	0.20	
22	unidentified	*	0	732.4	0.36	
23	unidentified	*	0	741	0.28	
24	unidentified	*	0	740.3	0.63	
25	unidentified	*	0	693.2	3.06	
26	unidentified	*	0	544	1.48	
27	unidentified	*	0	473.6	4.36	
28	unidentified	*	0	440.5	3.29	
29	unidentified	*	0	530.3	1.24	
30	unidentified	*	0	1067.7	0.26	

Note: \*, the formula is unknow; MW, Molecular weight; RI, Retention index; RC, Relative composition; CRC, Cumulative relative composition.

**Table S2.** The relative content of the unidentified compounds in four kinds of bamboo leaves.

Compound	Annual <i>P. edulis</i>	Biennial <i>P. edulis</i>	Annual <i>C. delicatus</i>	Biennial <i>C. delicatus</i>
1	0.20 ± 0.02 <sup>b</sup>	0.07 ± 0.01 <sup>d</sup>	0.23 ± 0.01 <sup>a</sup>	0.15 ± 0.00 <sup>c</sup>
2	0.46 ± 0.03 <sup>a</sup>	0.19 ± 0.00 <sup>d</sup>	0.31 ± 0.02 <sup>c</sup>	0.39 ± 0.02 <sup>b</sup>
3	1.18 ± 0.03 <sup>a</sup>	0.81 ± 0.04 <sup>c</sup>	0.79 ± 0.08 <sup>c</sup>	0.98 ± 0.03 <sup>b</sup>
4	0.69 ± 0.05 <sup>b</sup>	0.99 ± 0.05 <sup>a</sup>	0.68 ± 0.06 <sup>b</sup>	0.94 ± 0.01 <sup>a</sup>
5	0.29 ± 0.02 <sup>c</sup>	1.17 ± 0.02 <sup>a</sup>	0.34 ± 0.01 <sup>b</sup>	0.20 ± 0.00 <sup>d</sup>
6	1.36 ± 0.16 <sup>a</sup>	0.15 ± 0.05 <sup>c</sup>	0.39 ± 0.03 <sup>b</sup>	0.39 ± 0.01 <sup>b</sup>
7	0.38 ± 0.08 <sup>c</sup>	0.16 ± 0.07 <sup>d</sup>	0.53 ± 0.06 <sup>b</sup>	0.68 ± 0.02 <sup>a</sup>
8	0.18 ± 0.01 <sup>d</sup>	0.32 ± 0.01 <sup>c</sup>	0.47 ± 0.01 <sup>b</sup>	0.58 ± 0.01 <sup>a</sup>
9	0.22 ± 0.03 <sup>a</sup>	0.18 ± 0.02 <sup>b</sup>	0.04 ± 0.01 <sup>c</sup>	0.05 ± 0.00 <sup>c</sup>
10	0.60 ± 0.03 <sup>c</sup>	0.82 ± 0.07 <sup>b</sup>	1.85 ± 0.10 <sup>a</sup>	1.96 ± 0.01 <sup>a</sup>
11	0.11 ± 0.00 <sup>a</sup>	0.12 ± 0.01 <sup>a</sup>	0.09 ± 0.01 <sup>b</sup>	0.08 ± 0.00 <sup>b</sup>
12	0.10 ± 0.01 <sup>b</sup>	0.19 ± 0.01 <sup>b</sup>	0.34 ± 0.13 <sup>a</sup>	0.09 ± 0.00 <sup>b</sup>

13	1.79 ± 0.20 <sup>a</sup>	1.18 ± 0.07 <sup>b</sup>	0.71 ± 0.03 <sup>c</sup>	0.59 ± 0.01 <sup>c</sup>
14	0.81 ± 0.04 <sup>b</sup>	0.59 ± 0.09 <sup>c</sup>	0.92 ± 0.03 <sup>a</sup>	0.93 ± 0.01 <sup>a</sup>
15	0.71 ± 0.06 <sup>b</sup>	0.65 ± 0.07 <sup>b</sup>	0.88 ± 0.02 <sup>a</sup>	0.86 ± 0.02 <sup>a</sup>
16	0.69 ± 0.04 <sup>b</sup>	0.34 ± 0.03 <sup>c</sup>	0.67 ± 0.03 <sup>b</sup>	0.82 ± 0.01 <sup>a</sup>
17	0.31 ± 0.04 <sup>b</sup>	0.62 ± 0.06 <sup>a</sup>	0.23 ± 0.03 <sup>b</sup>	0.25 ± 0.01 <sup>b</sup>
18	1.86 ± 0.07 <sup>a</sup>	0.79 ± 0.06 <sup>c</sup>	1.24 ± 0.03 <sup>b</sup>	1.29 ± 0.01 <sup>b</sup>
19	0.50 ± 0.00 <sup>d</sup>	1.37 ± 0.03 <sup>b</sup>	1.15 ± 0.04 <sup>c</sup>	1.51 ± 0.02 <sup>a</sup>
20	1.35 ± 0.11 <sup>a</sup>	0.58 ± 0.02 <sup>c</sup>	0.93 ± 0.06 <sup>b</sup>	0.31 ± 0.02 <sup>d</sup>
21	0.22 ± 0.01 <sup>a</sup>	0.22 ± 0.00 <sup>a</sup>	0.19 ± 0.01 <sup>b</sup>	0.19 ± 0.00 <sup>b</sup>
22	0.13 ± 0.02 <sup>c</sup>	0.46 ± 0.02 <sup>a</sup>	0.49 ± 0.04 <sup>a</sup>	0.36 ± 0.01 <sup>b</sup>
23	0.27 ± 0.03 <sup>b</sup>	0.51 ± 0.07 <sup>a</sup>	0.27 ± 0.04 <sup>b</sup>	0.07 ± 0.01 <sup>c</sup>
24	0.69 ± 0.02 <sup>b</sup>	0.83 ± 0.04 <sup>a</sup>	0.54 ± 0.04 <sup>c</sup>	0.47 ± 0.05 <sup>c</sup>
25	3.20 ± 0.40 <sup>b</sup>	1.98 ± 0.10 <sup>c</sup>	2.25 ± 0.11 <sup>c</sup>	4.71 ± 0.08 <sup>a</sup>
26	2.17 ± 0.13 <sup>a</sup>	0.86 ± 0.01 <sup>d</sup>	1.78 ± 0.10 <sup>b</sup>	1.12 ± 0.03 <sup>c</sup>
27	4.47 ± 0.33 <sup>ab</sup>	4.19 ± 0.25 <sup>b</sup>	4.08 ± 0.14 <sup>b</sup>	4.68 ± 0.09 <sup>a</sup>
28	3.92 ± 0.21 <sup>a</sup>	3.74 ± 0.08 <sup>a</sup>	3.40 ± 0.20 <sup>b</sup>	2.15 ± 0.04 <sup>c</sup>
29	1.40 ± 0.05 <sup>a</sup>	1.30 ± 0.01 <sup>b</sup>	1.01 ± 0.05 <sup>c</sup>	1.24 ± 0.01 <sup>b</sup>
30	0.15 ± 0.01 <sup>c</sup>	0.20 ± 0.02 <sup>b</sup>	0.35 ± 0.03 <sup>a</sup>	0.33 ± 0.01 <sup>a</sup>

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Data are expressed as means ± SD. The small letter superscripted in each column indicates a significant difference ( $p < 0.05$ ,  $n = 3$ ).