

Table S1. Overview usage information on plastic membranes and production mode at the three study areas.

Site	Location	Planting area (m²)	Greenhouse film							
			Type	Thickness (mm)	Continuous	Covering Time (a)	Breadth (m)	Consumption (t)	Recycle	Recycle Mode
ZL	Ziling Town	66,667	Composite	8–15		4	12–15	16–24	Yes	Unified recycle and reuse
ZH	Zhanghe Town	6400	PE (polyethylene)	>12		5	8	50	Yes	Unified recycle and reuse
PD	Pengdun Village	66,667	PO (polyolefin)	6–12		8	8	35	Yes	Unified recycle and reuse

Abb	Type	Thickness (mm)	Mulching Film				Productive Time
			Recycle	Residues	Recycle Time	Recycle Mode	
ZL	Black and double-sided mulch	14	Yes	No visible debris	After harvest	Manual and discard	Sep to May
ZH	Colored /weeding mulch	8–12	Yes	No visible debris	After harvest	Manual and discard	Aug to Nov & Feb to Jul
PD	Colored /weeding mulch	8–12	Yes	No visible debris	After harvest	Manual and discard	Aug to Dec & Jan to Jun

Table S2. Physicochemical properties of soils at the three study areas.

Location	Soil Type	pH	EC (μS cm ⁻¹)	Clay (%)	Silt (%)	Sand (%)	Organic matter (%)
ZL	Alfisols	5.27 ± 0.44	963 ± 96	12	13	75	1.42 ± 0.17
PD	Alfisols	6.32 ± 0.49	487 ± 62	17	10	73	1.67 ± 0.21
ZH	Alfisols	5.88 ± 0.35	351 ± 77	22	12	66	1.88 ± 0.11

Table S3. concentrations in samples collected from Zilingpu (μg kg⁻¹ dry weight, DW).

Sampling Site	Soil							Leaf							Fruit						
	DMP	DEP	BBP	DBP	DEHP	DOP	PAEs	DMP	DEP	BBP	DBP	DEHP	DOP	PAEs	DMP	DEP	BBP	DBP	DEHP	DOP	PAEs
1	13±4	26±3	ND	6374±407	597±59	5±1	7015±475a	-	3±0	-	2337±431	1213±27	2±0	3556±458ab	-	18±4	ND	1037±24	852±35	10±0	1918±63f
2	15±5	22±3	ND	2587±244	496±169	4±1	3125±423c	-	3±0	-	1362±52	1377±18	1±0	2744±70c	-	22±3	ND	1081±68	263±25	11±2	1377±99g
3	11±3	24±2	ND	4405±457	507±184	7±0	4954±647b	-	3±0	-	2564±195	1565±212	-	4132±407a	-	17±2	ND	1591±111	1697±53	10±1	3316±168cd
4	15±2	24±6	ND	1632±31	459±21	6±1	2136±62d	-	2±0	-	1988±197	1666±60	-	3656±258a	-	21±3	ND	2101±78	1186±54	12±3	3321±139cd
5	18±5	28±3	ND	1353±41	321±84	2±0	1722±134e	-	5±1	-	1562±52	1767±36	-	3335±89b	-	26±8	ND	2434±431	713±63	16±3	3189±505cd
6	21±2	29±8	ND	2101±169	299±148	3±1	2454±329d	-	7±2	-	1929±39	1154±34	-	3090±75b	-	29±5	ND	1262±52	902±43	19±4	2212±104e
7	23±4	28±4	ND	2182±99	260±115	2±0	2495±223d	-	5±1	-	1263±363	989±23	1±0	2258±388cd	-	28±3	ND	2796±195	1132±14	18±3	3973±215c
8	11±2	35±3	-	1835±132	272±36	7±1	2160±175d	-	6±1	-	1773±148	576±59	1±0	2357±209cd	-	22±5	ND	1190±197	775±27	8±0	1996±229e
9	9±1	39±12	ND	1922±189	249±22	7±2	2227±227d	-	3±0	-	1030±594	399±169	-	1432±763d	-	21±6	ND	861±52	891±18	6±0	1780±76f
10	10±2	34±2	ND	1442±260	206±48	6±1	1699±314de	-	3±0	-	1229±609	776±184	1±0	2009±794d	-	22±5	ND	621±39	939±212	8±0	1590±257f
11	7±3	29±8	ND	1498±200	385±214	2±0	1921±426de	-	9±2	-	1377±407	387±21	2±0	1776±431d	-	13±2	ND	3190±363	570±60	10±2	3783±428cd
12	8±3	29±3	ND	2500±176	517±75	1±0	3055±258c	-	11±1	-	1577±244	354±84	1±0	1943±330d	-	13±2	ND	6500±148	111±36	11±1	6635±188b
13	7±2	27±8	ND	1255±65	499±41	1±0	1789±116e	-	10±1	-	3756±457	523±148	1±0	4290±607a	-	15±3	ND	8977±594	213±34	10±1	9216±632a
14	9±2	28±3	ND	1227±32	523±76	2±0	1790±114e	-	9±2	-	1677±31	429±115	-	2115±149cd	-	14±3	ND	2148±609	331±23	12±2	2505±637cde

Values are mean values of three replicates $\pm$ standard deviation; SD < 0.5 recorded as 0. ND: not detected; –, < 1. Sample numbers 1 to 4, yellow cucumber; 5 to 7, green tomato; 8 to 10, green chili; 11 to 14, red chestnut pumpkin. Different superscript letters indicate significant differences between different samples according to one-way analysis of variance followed by Tukey's test ($p < 0.05$).

Table S4. PAE concentrations in samples collected from Zhanghe ($\mu\text{g kg}^{-1}$ DW).

Sampling Site	Soil							Leaf							Fruit						
	DMP	DEP	BBP	DBP	DEHP	DOP	PAEs	DMP	DEP	BBP	DBP	DEHP	DOP	PAEs	DMP	DEP	BBP	DBP	DEHP	DOP	PAEs
1	29 $\pm$ 3	15 $\pm$ 2	ND	519 $\pm$ 72	3124 $\pm$ 418	16 $\pm$ 3	3704 $\pm$ 498a	5 $\pm$ 1	6 $\pm$ 1	ND	547 $\pm$ 128	2523 $\pm$ 4446	8 $\pm$ 2	3089 $\pm$ 577e	-	13 $\pm$ 2	ND	846 $\pm$ 109	1087 $\pm$ 377	30 $\pm$ 5	1975 $\pm$ 492bc
2	29 $\pm$ 3	15 $\pm$ 2	ND	2304 $\pm$ 249	2072 $\pm$ 264	15 $\pm$ 3	4435 $\pm$ 522a	5 $\pm$ 1	6 $\pm$ 1	ND	1580 $\pm$ 260	10081 $\pm$ 10487	10 $\pm$ 2	11683 $\pm$ 1313a	-	13 $\pm$ 2	ND	476 $\pm$ 101	891 $\pm$ 39	33 $\pm$ 4	1413 $\pm$ 146de
3	28 $\pm$ 3	15 $\pm$ 2	ND	1364 $\pm$ 106	2919 $\pm$ 331	16 $\pm$ 3	4343 $\pm$ 445a	5 $\pm$ 1	6 $\pm$ 1	ND	400 $\pm$ 131	800 $\pm$ 141	11 $\pm$ 3	1222 $\pm$ 276g	-	15 $\pm$ 2	ND	468 $\pm$ 119	681 $\pm$ 20	30 $\pm$ 4	1194 $\pm$ 145e
4	28 $\pm$ 3	14 $\pm$ 2	ND	416 $\pm$ 40	1123 $\pm$ 94	16 $\pm$ 3	1597 $\pm$ 141d	5 $\pm$ 1	7 $\pm$ 1	ND	495 $\pm$ 9	834 $\pm$ 85	10 $\pm$ 3	1351 $\pm$ 98g	-	13 $\pm$ 3	ND	575 $\pm$ 42	2774 $\pm$ 347	30 $\pm$ 4	3392 $\pm$ 396a
5	11 $\pm$ 3	20 $\pm$ 2	ND	677 $\pm$ 80	314 $\pm$ 76	20 $\pm$ 3	1042 $\pm$ 165e	8 $\pm$ 1	3 $\pm$ 1	ND	651 $\pm$ 46	1614 $\pm$ 701	14 $\pm$ 2	2289 $\pm$ 751fg	-	20 $\pm$ 2	ND	541 $\pm$ 39	287 $\pm$ 227	42 $\pm$ 3	890 $\pm$ 271f
6	11 $\pm$ 3	21 $\pm$ 1	ND	2782 $\pm$ 0	1370 $\pm$ 297	19 $\pm$ 3	4205 $\pm$ 500a	9 $\pm$ 1	3 $\pm$ 1	ND	380 $\pm$ 52	2191 $\pm$ 306	13 $\pm$ 2	2594 $\pm$ 360f	-	18 $\pm$ 2	ND	390 $\pm$ 6	191 $\pm$ 35	43 $\pm$ 3	642 $\pm$ 46f
7	13 $\pm$ 3	22 $\pm$ 2	ND	2000 $\pm$ 97	332 $\pm$ 75	19 $\pm$ 2	2833 $\pm$ 180b	9 $\pm$ 1	3 $\pm$ 1	ND	475 $\pm$ 42	1940 $\pm$ 390	15 $\pm$ 2	2442 $\pm$ 436f	-	18 $\pm$ 2	ND	1237 $\pm$ 38	346 $\pm$ 101	41 $\pm$ 3	1643 $\pm$ 144d
8	12 $\pm$ 3	21 $\pm$ 2	ND	449 $\pm$ 65	1576 $\pm$ 111	18 $\pm$ 2	2077 $\pm$ 184c	8 $\pm$ 1	2 $\pm$ 1	ND	347 $\pm$ 62	2855 $\pm$ 226	13 $\pm$ 2	3225 $\pm$ 291e	-	19 $\pm$ 2	ND	476 $\pm$ 57	281 $\pm$ 8	43 $\pm$ 3	819 $\pm$ 69f
9	50 $\pm$ 3	12 $\pm$ 3	ND	483 $\pm$ 74	362 $\pm$ 53	12 $\pm$ 3	919 $\pm$ 135ef	3 $\pm$ 1	4 $\pm$ 1	ND	1373 $\pm$ 26	3719 $\pm$ 112	6 $\pm$ 2	5106 $\pm$ 142c	-	8 $\pm$ 1	ND	469 $\pm$ 20	1840 $\pm$ 84	34 $\pm$ 3	2350 $\pm$ 108b
10	47 $\pm$ 2	13 $\pm$ 4	ND	532 $\pm$ 94	1578 $\pm$ 256	12 $\pm$ 4	2182 $\pm$ 360c	3 $\pm$ 1	4 $\pm$ 1	ND	1282 $\pm$ 28	3390 $\pm$ 183	7 $\pm$ 2	4686 $\pm$ 214d	-	8 $\pm$ 2	ND	285 $\pm$ 10	1500 $\pm$ 190	36 $\pm$ 3	1830 $\pm$ 205c
11	47 $\pm$ 2	13 $\pm$ 2	ND	884 $\pm$ 86	1725 $\pm$ 221	13 $\pm$ 3	2684 $\pm$ 313bc	3 $\pm$ 1	4 $\pm$ 1	ND	1300 $\pm$ 33	3902 $\pm$ 138	6 $\pm$ 2	5216 $\pm$ 174c	-	9 $\pm$ 1	ND	646 $\pm$ 192	1355 $\pm$ 66	35 $\pm$ 3	2044 $\pm$ 262c
12	49 $\pm$ 2	13 $\pm$ 3	ND	929 $\pm$ 110	284 $\pm$ 89	13 $\pm$ 3	1289 $\pm$ 207de	3 $\pm$ 1	5 $\pm$ 1	ND	1524 $\pm$ 27	4332 $\pm$ 129	8 $\pm$ 2	5873 $\pm$ 159b	-	8 $\pm$ 2	ND	284 $\pm$ 25	1469 $\pm$ 78	36 $\pm$ 3	1797 $\pm$ 108c

Values are mean values of three replicates $\pm$ standard deviation; SD < 0.5 recorded as 0. ND: not detected; –, < 1. Sample numbers 1 to 4, purple long eggplant; 5 to 8, Hangzhou chili; 9 to 12, cauliflower. Different superscript letters indicate significant differences between different samples according to one-way analysis of variance followed by Tukey's test ($p < 0.05$).

Table S5. concentrations in samples collected from Pengdun ($\mu\text{g kg}^{-1}$ DW).

Sampling Site	Soil							Leaf							Fruit						
	DMP	DEP	BBP	DBP	DEHP	DOP	PAEs	DMP	DEP	BBP	DBP	DEHP	DOP	PAEs	DMP	DEP	BBP	DBP	DEHP	DOP	PAEs
1	20 $\pm$ 3	26 $\pm$ 5	ND	2111 $\pm$ 615	972 $\pm$ 128	18 $\pm$ 6	3147 $\pm$ 757ab	-	-	ND	908 $\pm$ 565	1415 $\pm$ 50	-	2323 $\pm$ 615abc	-	14 $\pm$ 3	ND	712 $\pm$ 51	626 $\pm$ 54	203 $\pm$ 36	1556 $\pm$ 144h
2	18 $\pm$ 4	22 $\pm$ 6	ND	3392 $\pm$ 952	1208 $\pm$ 123	15 $\pm$ 6	4655 $\pm$ 1091a	-	-	ND	376 $\pm$ 145	1329 $\pm$ 44	-	1704 $\pm$ 189c	-	13 $\pm$ 6	ND	3554 $\pm$ 257	615 $\pm$ 20	229 $\pm$ 33	4412 $\pm$ 316bc
3	19 $\pm$ 3	25 $\pm$ 4	ND	1407 $\pm$ 354	893 $\pm$ 62	15 $\pm$ 6	2358 $\pm$ 429cde	-	-	ND	94 $\pm$ 37	1151 $\pm$ 59	-	1245 $\pm$ 95d	-	13 $\pm$ 5	ND	1829 $\pm$ 1327	737 $\pm$ 103	232 $\pm$ 30	2811 $\pm$ 1464abjh
4	19 $\pm$ 2	25 $\pm$ 5	ND	1718 $\pm$ 94	789 $\pm$ 14	17 $\pm$ 5	2570 $\pm$ 119c	-	-	ND	110 $\pm$ 11	1128 $\pm$ 46	-	1238 $\pm$ 56d	-	11 $\pm$ 5	ND	4260 $\pm$ 3249	1020 $\pm$ 49	214 $\pm$ 26	5506 $\pm$ 3330abf
5	13 $\pm$ 2	19 $\pm$ 4	ND	1627 $\pm$ 378	833 $\pm$ 101	13 $\pm$ 5	2505 $\pm$ 490bcd	-	-	ND	1784 $\pm$ 10	111 $\pm$ 20	-	1895 $\pm$ 30c	-	6 $\pm$ 4	ND	560 $\pm$ 330	254 $\pm$ 328	179 $\pm$ 20	999 $\pm$ 681h
6	13 $\pm$ 3	19 $\pm$ 5	ND	1985 $\pm$ 120	1052 $\pm$ 111	13 $\pm$ 7	3084 $\pm$ 246b	-	-	ND	2070 $\pm$ 45	733 $\pm$ 438	-	2803 $\pm$ 483a	-	5 $\pm$ 3	ND	131 $\pm$ 21	83 $\pm$ 26	168 $\pm$ 14	387 $\pm$ 63i
7	11 $\pm$ 2	18 $\pm$ 6	ND	1038 $\pm$ 20	785 $\pm$ 250	15 $\pm$ 4	1867 $\pm$ 281de	-	-	ND	1834 $\pm$ 130	1209 $\pm$ 90	-	3043 $\pm$ 220a	-	5 $\pm$ 3	ND	896 $\pm$ 76	535 $\pm$ 39	157 $\pm$ 17	1594 $\pm$ 13hj
8	12 $\pm$ 3	18 $\pm$ 2	ND	1775 $\pm$ 136	1029 $\pm$ 391	13 $\pm$ 6	2847 $\pm$ 537bc	-	-	ND	1809 $\pm$ 13	1141 $\pm$ 10	-	2950 $\pm$ 23a	-	6 $\pm$ 3	ND	303 $\pm$ 122	1624 $\pm$ 7	159 $\pm$ 20	2092 $\pm$ 152gj
9	16 $\pm$ 4	14 $\pm$ 3	ND	1170 $\pm$ 53	896 $\pm$ 32	16 $\pm$ 6	2111 $\pm$ 98e	-	-	ND	67 $\pm$ 18	3024 $\pm$ 787	-	3091 $\pm$ 805ab	-	9 $\pm$ 2	ND	1859 $\pm$ 18	686 $\pm$ 36	133 $\pm$ 26	2688 $\pm$ 251adfi
10	16 $\pm$ 2	13 $\pm$ 4	ND	1588 $\pm$ 246	739 $\pm$ 563	16 $\pm$ 3	2372 $\pm$ 818bce	-	-	ND	116 $\pm$ 20	2497 $\pm$ 492	-	2613 $\pm$ 512ab	-	8 $\pm$ 3	ND	1695 $\pm$ 6	636 $\pm$ 29	136 $\pm$ 34	2476 $\pm$ 73bf
11	15 $\pm$ 3	12 $\pm$ 3	ND	1266 $\pm$ 238	920 $\pm$ 400	17 $\pm$ 3	2230 $\pm$ 646bce	-	-	ND	334 $\pm$ 373	2435 $\pm$ 45	-	2769 $\pm$ 418ab	-	8 $\pm$ 3	ND	1815 $\pm$ 46	569 $\pm$ 7	130 $\pm$ 17	2522 $\pm$ 73bf
12	5 $\pm$ 2	5 $\pm$ 3	ND	1644 $\pm$ 336	319 $\pm$ 107	20 $\pm$ 4	1993 $\pm$ 152e	-	-	ND	1769 $\pm$ 21	877 $\pm$ 28	-	2647 $\pm$ 50ab	-	3 $\pm$ 2	ND	2045 $\pm$ 86	855 $\pm$ 38	303 $\pm$ 23	3206 $\pm$ 150ae
13	4 $\pm$ 2	5 $\pm$ 3	ND	1609 $\pm$ 120	325 $\pm$ 126	22 $\pm$ 2	1964 $\pm$ 253e	-	-	ND	2025 $\pm$ 45	892 $\pm$ 60	-	2917 $\pm$ 105ab	-	4 $\pm$ 2	ND	1921 $\pm$ 147	851 $\pm$ 66	334 $\pm$ 29	3111 $\pm$ 245ae
14	5 $\pm$ 1	4 $\pm$ 3	ND	1318 $\pm$ 40	618 $\pm$ 157	22 $\pm$ 3	1967 $\pm$ 205e	-	-	ND	1842 $\pm$ 77	841 $\pm$ 41	-	2683 $\pm$ 118ab	-	3 $\pm$ 2	ND	1913 $\pm$ 80	846 $\pm$ 1	316 $\pm$ 27	3078 $\pm$ 111ae

Values are mean values of three replicates $\pm$ standard deviation; SD < 0.5 recorded as 0. ND: not detected; –, < 1. Sample numbers 1 to 4, tomato; 5 to 8, mini-cucumber; 9 to 11, eggplant; and 12 to 14, screw chili. Different superscript letters indicate significant differences between different samples according to one-way analysis of variance followed by Tukey's test ($p < 0.05$).

Table S6. Eigenvalues and contribution rates of PCA.

Sampling site	Component	Eigenvalue	Contribution Rate	Cumulative Contribution Rate
Zilingpu	Principal component 1	12.441	88.86%	88.86%
	Principal component 2	1.5592	11.14%	100.00%
Zhanghe	Principal component 1	9.6756	80.63%	80.63%
	Principal component 2	2.3205	19.34%	100.00%
Pengdun	Principal component 1	12.1934	87.10%	87.10%
	Principal component 2	1.1663	8.33%	95.43%
	Principal component 3	0.2503	2.12%	97.55%
All three areas	Principal component 1	1.65253	41.31%	41.31%
	Principal component 2	1.30357	32.59%	73.90%
	Principal component 3	0.72385	18.10%	92.00%

Table S7. of principal component analysis in Figure 3a.

Zilingpu Samples	Principal Component Coefficient 1	Principal Component Coefficient 2	Zhanghe Samples	Principal Component Coefficient 1	Principal Component Coefficient 2	Pengdun Samples	Principal Component Coefficient 1	Principal Component Coefficient 2
Cucumber-y1	0.2725	0.22106	Eggplant-p1	0.32077	0.04093	Tomato-1	0.26751	0.32915
Cucumber-y2	0.27492	-0.19552	Eggplant-p2	0.31812	-0.09477	Tomato-2	0.27404	-0.26713
Cucumber-y3	0.25657	0.34072	Eggplant-p3	0.32146	-0.00655	Tomato-3	0.28558	-0.05572
Cucumber-y4	0.28283	0.05565	Eggplant-p4	0.2875	-0.29376	Tomato-4	0.27826	-0.20955
Tomato-g1	0.27825	-0.15371	Chili-H1	0.2673	0.36469	Cucumber-m1	0.28372	0.01392
Tomato-g2	0.27804	0.15663	Chili-H2	0.2586	0.38927	Cucumber-m2	0.1839	0.20897
Tomato-g3	0.28259	-0.06488	Chili-H3	0.21713	0.48351	Cucumber-m3	0.28367	0.11682
Chili-g1	0.28053	0.11596	Chili-H4	0.27649	0.33477	Cucumber-m4	0.11303	0.8235
Chili-g2	0.25874	0.32744	Cauliflower-1	0.29398	-0.26567	Eggplant-1	0.28384	-0.09206
Chili-g3	0.2263	0.48243	Cauliflower-2	0.28453	-0.30551	Eggplant-2	0.2842	-0.08544
Pumpkin-r1	0.27017	-0.24284	Cauliflower-3	0.31524	-0.12866	Eggplant-3	0.28229	-0.14143
Pumpkin-r2	0.25273	-0.36292	Cauliflower-4	0.28503	-0.30357	Chili-s1	0.28603	-0.03834
Pumpkin-r3	0.2536	-0.35807				Chili-s2	0.28634	-0.01293
Pumpkin-r4	0.26782	-0.26277				Chili-s3	0.2863	-0.01473

For explanation of abbreviations, see Figure 4.

Table S8. of principal component analysis in Figure 3b.

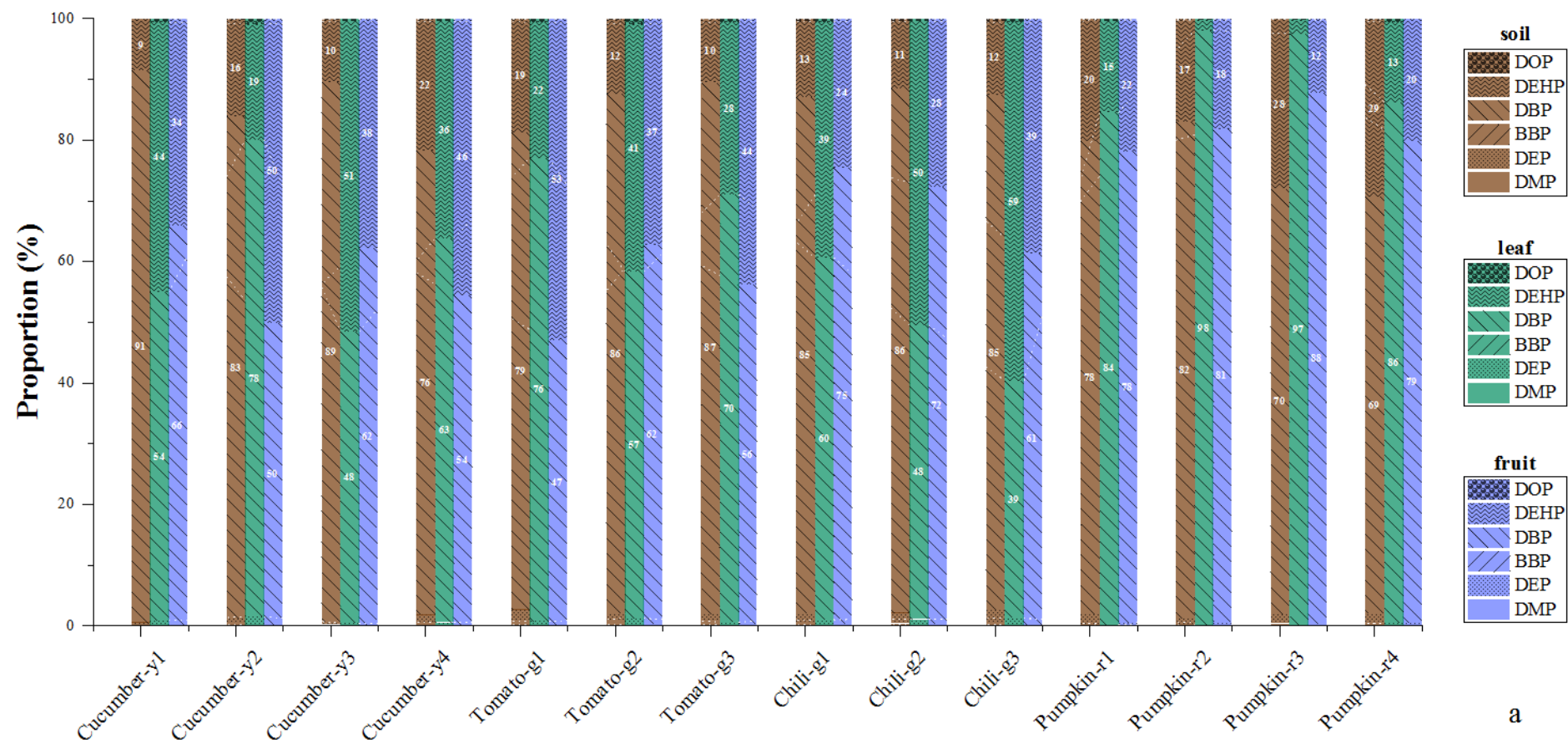
Sample	Principal Component Coefficient 1	Principal Component Coefficient 2	Principal Component Coefficient 3
Cucumber-y1-ZL	0.97964	0.35075	-0.2511
Cucumber-y2-ZL	1.41049	-0.46836	-1.03102
Cucumber-y3-ZL	0.87996	1.23695	1.03456
Cucumber-y4-ZL	1.29265	0.33583	0.55011
Tomato-g1-ZL	1.81049	-0.45808	0.01531
Tomato-g2-ZL	2.0617	0.21742	-0.3022
Tomato-g3-ZL	2.01325	-0.0787	0.64127
Chili-g1-ZL	1.41053	0.15912	-0.35222
Chili-g2-ZL	1.31557	0.45024	-0.32971
Chili-g3-ZL	1.34258	0.59929	-0.38203
Pumpkin-r1-ZL	0.51898	-0.8176	0.40052
Pumpkin-r2-ZL	0.70801	-2.72476	1.21264
Pumpkin-r3-ZL	1.0053	-3.58494	2.3408
Pumpkin-r4-ZL	0.63961	-0.73371	-0.35946
Eggplant-p1-ZH	0.27219	0.74864	0.04041
Eggplant-p2-ZH	0.24957	0.63436	-0.35888
Eggplant-p3-ZH	0.46308	0.35167	-0.65233
Eggplant-p4-ZH	0.1597	3.04697	2.00485
Chili-H1-ZH	0.88604	-0.24871	-1.20149
Chili-H2-ZH	0.66209	-0.29759	-1.34558
Chili-H3-ZH	0.78369	-0.43359	-0.81281
Chili-H4-ZH	0.78152	-0.22378	-1.21918
Cauliflower-1-ZH	-0.31152	1.91192	0.89454
Cauliflower-2-ZH	-0.30744	1.5379	0.3954
Cauliflower-3-ZH	-0.22161	1.20534	0.35996
Cauliflower-4-ZH	-0.31969	1.4991	0.35916
Tomato-1-PD	-0.85279	-0.07686	-0.73223
Tomato-2-PD	-1.02272	-1.24251	0.44231
Tomato-3-PD	-1.06577	-0.41265	-0.1411
Tomato-4-PD	-1.07822	-0.95811	1.2765
Cucumber-m1-PD	-1.45074	-0.39525	-1.09693
Cucumber-m2-PD	-1.53484	-0.41741	-1.45038
Cucumber-m3-PD	-1.39221	-0.12021	-0.57642
Cucumber-m4-PD	-1.41003	1.51807	0.49971
Eggplant-1-PD	-0.76806	-0.3036	-0.04517
Eggplant-2-PD	-0.91264	-0.29784	-0.15563
Eggplant-3-PD	-0.89122	-0.4189	-0.17728
Chili-s1-PD	-2.62989	-0.36572	0.22684
Chili-s2-PD	-2.73328	-0.38084	0.12444
Chili-s3-PD	-2.74396	-0.34386	0.15385

For explanation of abbreviations, see Figure 4.

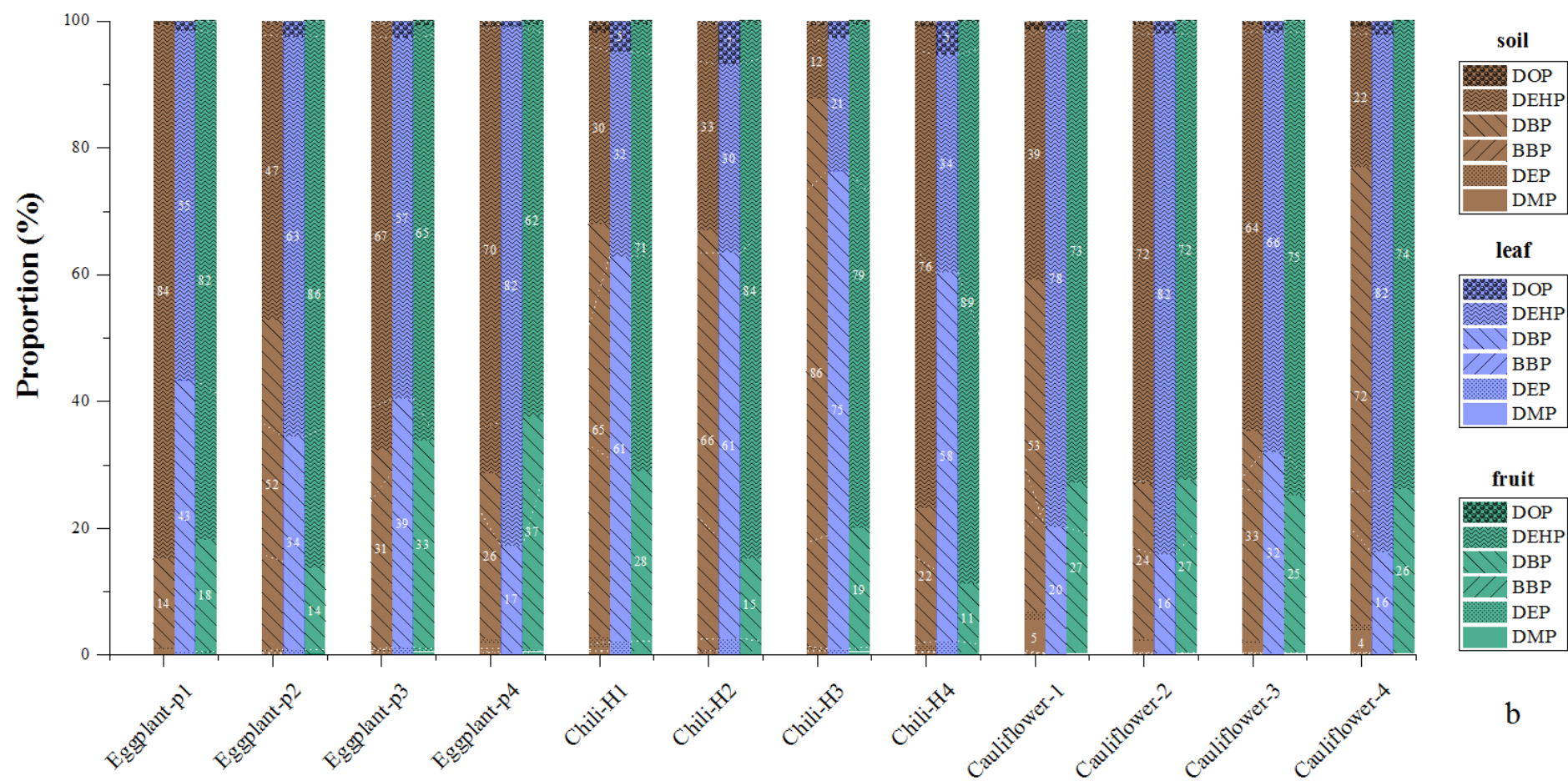
Table 9. Pearson correlation analysis of PAEs in different samples.

	Zilingpu						Zhanghe						Pengdun					
	DMP	DEP	BBP	DBP	DEHP	DOP	DMP	DEP	BBP	DBP	DEHP	DOP	DMP	DEP	BBP	DBP	DEHP	DOP
DMP	1	0.3696	--	-0.2990	0.5339*	0.9166 **	1	-0.9875 **	--	-0.0547	0.4274	-0.8347 **	1	0.9153**	--	-0.1998	0.4670	-0.6159
DEP		1	--	-0.4606	-0.2643	0.2945		1	--	0.0960	-0.4680	0.8614 **		1	--	-0.0530	0.2222	-0.4225
BBP			--	--	--	--			--	--	--	--			--	--	--	--
DBP				1	-0.1097	-0.3078				1	0.3525	0.1738				1	-0.3156	0.6122
DEHP					1	0.6486 *					1	-0.5619					1	-0.5287
DOP						1						1						1

* Correlation is significant at 0.05 level (two-tailed); ** Correlation is significant at 0.01 level (two-tailed).



a



b

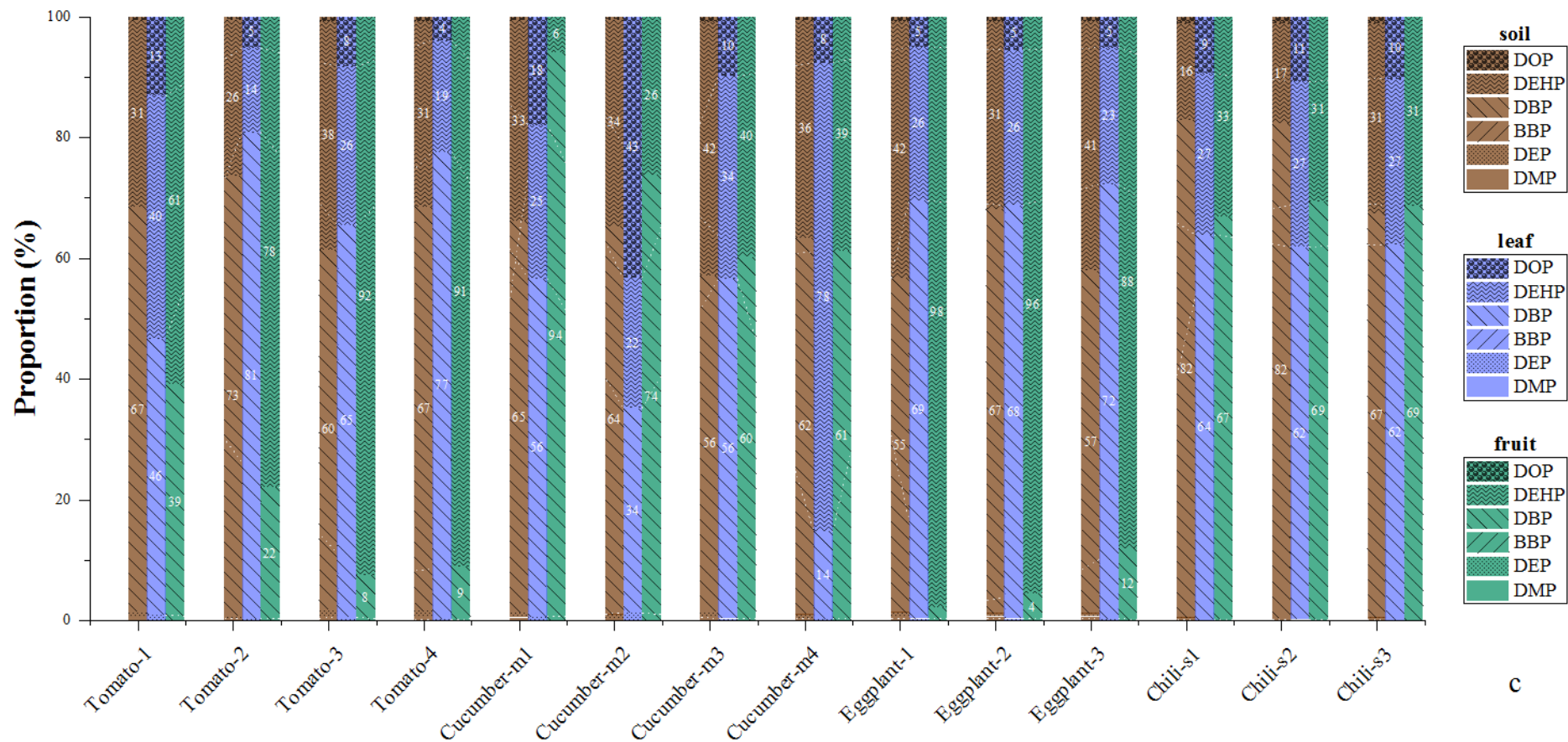


Figure 1. The composition patterns of PAEs in samples collected from (a) Zilingpu ($n = 52 = 14$ fruit sample + 14 leaf sample + 14 soil sample). Cucumber-y1, the first sampling greenhouse planted cucumber (yellow)/yellow cucumber; Tomato-g1, the first sampling greenhouse planted tomato (green)/green tomato; Chili-g1, the first sampling greenhouse planted chili (green)/green chili; Pumpkin-r1, the first sampling greenhouse planted pumpkin (red chestnut)/red chestnut pumpkin. (b) Zhanghe ($n = 36 = 12$ fruit sample + 12 leaf sample + 12 soil sample). Eggplant-p1, the first sampling greenhouse planted eggplant (purple long)/purple long eggplant; Chili-H1, the first sampling greenhouse planted chili (Hangzhou)/Hangzhou chili; Cauliflower-1, the first sampling greenhouse planted cauliflower. (c) Pengdun ($n = 52 = 14$ fruit sample + 14 leaf sample + 14 soil sample). Tomato-1, the first sampling

greenhouse planted tomato; Cucumber-m1, the first sampling greenhouse planted cucumber (mini)/mini-cucumber; Eggplant-1, the first sampling greenhouse planted eggplant; Chili-s1, the first sampling greenhouse planted chili (screw)/screw chili. Histogram heights <3% are hidden.