

Table S1. Basic characteristics of *P. euphratica* at different tree ages

Age	Diameter(cm)	Height(m)
1	0.33	0.34
3	1.42	1.35
5	3.10	2.94
8	5.55	5.47
11	12.96	8.15

¹Diameter was measured as basal diameter (at ground level) for 1- and 3-year-old trees (height <1.3 m) and as DBH (diameter at breast height, 1.3 m above ground) for trees aged ≥5 years. 3

Table S2. Results of standardized major axis regression (SMA) analysis of pairwise relationships among twig and leaf traits of *P. euphratica* across different age classes.

Index(y~x)	age	Slope(95% confidence interval)	intercept	R ²	p	p-1.0
L_M~T_M	1		0.153	0.573	<0.001	<0.001
	3		0.207	0.834	<0.001	<0.001
	5	0.737(0.695,0.781)	0.352	0.580	<0.001	<0.001
	8		0.625	0.438	<0.001	<0.001
	11		0.608	0.729	<0.001	<0.001
L_M~P_M	1		1.507	0.361	<0.001	<0.001
	3		1.283	0.814	<0.001	<0.001
	5	0.827(0.789,0.866)	1.061	0.817	<0.001	<0.001
	8		1.036	0.664	<0.001	<0.001
	11		0.938	0.902	<0.001	0.032
T_M~P_M	1	0.845(0.69,1.035)	1.26	0.237	<0.001	<0.001
	3	1.128(0.999,1.273)	1.473	0.728	<0.001	0.016
	5	1.104(0.925,1.317)	0.941	0.420	<0.001	0.024
	8	1.212(0.993,1.48)	0.691	0.258	<0.001	<0.001
	11	1.203(1.074,1.347)	0.543	0.764	<0.001	0.133
L_L~T_L	1	1.275(1.075,1.513)	0.344	0.458	<0.001	0.03
	3	0.813(0.688,0.96)	0.976	0.483	<0.001	<0.001
	5	1.22(1.09,1.364)	0.242	0.769	<0.001	0.007
	8	0.906(0.792,1.036)	0.684	0.667	<0.001	<0.001
	11	0.862(0.74,1.003)	0.685	0.572	<0.001	<0.001
L_L~P_L	1	0.689(0.552,0.86)	1.803	0.083	0.012	<0.001
	3	0.657(0.553,0.78)	1.548	0.452	<0.001	<0.001
	5	0.971(0.799,1.18)	0.742	0.296	<0.001	0.028
	8	1.387(1.106,1.74)	0.067	0.042	0.079	0.001
	11	0.774(0.677,0.885)	0.435	0.667	<0.001	<0.001
T_L~P_L	1	0.54(0.439,0.665)	1.144	0.194	<0.001	0.103
	3	0.808(0.681,0.96)	0.703	0.453	<0.001	0.052
	5	0.796(0.653,0.97)	0.41	0.270	<0.001	0.272
	8	1.532(1.24,1.893)	-0.681	0.165	<0.001	0.059
	11	0.898(0.78,1.034)	-0.29	0.634	<0.001	0.002

¹N=75. p-1.0 : significance level for deviation from the 1:1 line. S_L, stem length; S_M, stem mass; P_L, petiole length; P_M, petiole mass; L_L, lamina length; L_M, lamina mass.

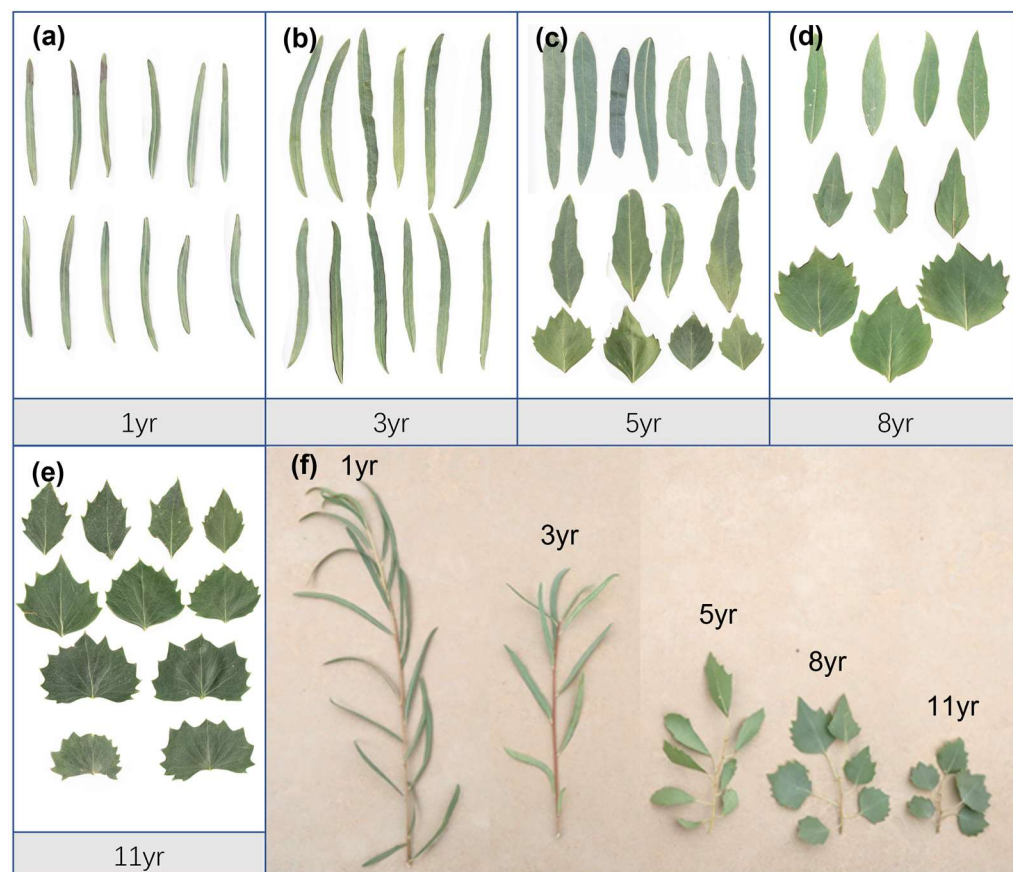


Figure S1. The diverse morphological forms of *P. euphratica* leaves (a-e) and twigs (f) in each seedling age (1-,3-,5-,8- and 11-year-old).