

黄冬柳, 项伟, 李忠国, 朱师丹 (2022). 南亚热带10种造林树种的水力结构和水力安全. 植物生态学报, 46, 602-612. DOI: 10.17521/cjpe.2021.0391
 Huang DL, Xiang W, Li ZG, Zhu SD (2022). Hydraulic architecture and safety margin in ten afforestation species in a lower subtropical region, China. *Chinese Journal of Plant Ecology*, 46, 602-612. DOI: 10.17521/cjpe.2021.0391
<https://www.plant-ecology.com/CN/10.17521/cjpe.2021.0391>

附录IV 南亚热带10种造林树种各性状之间的Pearson相关性分析

Supplement IV Coefficients of Pearson's correlation between each pair of traits across the 10 afforestation tree species in a lower subtropical region, China

性状 Trait	DGR	HGR	k_s	k_l	HV	SLA	WD	Ψ_{tip}	P_{50}	Ψ_{midday}	HSM ₅₀	HSM _{tip}	D_h
HGR	0.89***												
k_s	0.64*	0.64*											
k_l	0.76*	0.72*	0.95***										
HV	-0.03	-0.05	0.44	0.17									
SLA	-0.06	-0.10	0.27	-0.001	0.92***								
WD	0.39	0.44	0.25	0.24	0.25	0.08							
Ψ_{tip}	0.08	0.13	0.58	0.49	0.52	0.45	0.12						
P_{50}	-0.03	0.11	0.39	0.23	0.63	0.47	0.55	0.78**					
Ψ_{midday}	-0.29	-0.21	-0.53	-0.55	-0.19	0.10	-0.25	0.08	0.08				
HSM ₅₀	-0.05	-0.16	-0.54	-0.38	-0.67*	-0.43	-0.62	-0.74*	-0.96***	0.22			
HSM _{tip}	0.17	-0.01	0.09	0.23	-0.33	-0.16	-0.73*	-0.08	-0.68*	-0.07	0.65*		
D_h	0.61	0.66*	0.84**	0.85**	0.31	0.15	0.24	0.56	0.36	-0.45	-0.48	0.11	
VD	-0.40	-0.34	-0.72*	-0.66*	-0.54	-0.35	-0.55	-0.49	-0.47	0.61	0.64*	0.12	-0.75*

Ψ_{midday} , 中午叶片水势(MPa); Ψ_{tip} , 失膨点水势(MPa); DGR, 胸径生长速率($\text{cm}\cdot\text{a}^{-1}$); D_h , 导管(或管胞)水力直径(μm); HGR, 株高生长速率($\text{m}\cdot\text{a}^{-1}$); HSM₅₀, 水力安全边际(MPa); HSM_{tip}, 气孔安全边际(MPa); HV, 胡伯尔值($\times 10^{-4}$); k_l , 叶片比导率($\times 10^{-4}\text{kg}\cdot\text{m}^{-1}\cdot\text{MPa}^{-1}\cdot\text{s}^{-1}$); k_s , 边材比导率($\text{kg}\cdot\text{m}^{-1}\cdot\text{MPa}^{-1}\cdot\text{s}^{-1}$); P_{50} , 抗栓塞能力 (MPa); SLA, 比叶面积($\text{cm}^2\cdot\text{g}^{-1}$); VD, 导管(或管胞)密度($\text{No}\cdot\text{mm}^{-2}$); WD, 木材密度($\text{g}\cdot\text{cm}^{-3}$). *, $p < 0.05$; **, $p < 0.01$; ***, $p < 0.001$.

Ψ_{midday} , midday leaf water potential (MPa); Ψ_{tip} , leaf turgor loss point (MPa); DGR, diameter at breast height growth rate ($\text{cm}\cdot\text{a}^{-1}$); D_h , hydraulically-weighted vessel (or tracheid) diameter (μm); HGR, height growth rate ($\text{m}\cdot\text{a}^{-1}$); HSM₅₀, hydraulic safety margin (MPa); HSM_{tip}, stomatal safety margin (MPa); HV, Huber value ($\times 10^{-4}$); k_l , leaf specific hydraulic conductivity ($\times 10^{-4}\text{kg}\cdot\text{m}^{-1}\cdot\text{MPa}^{-1}\cdot\text{s}^{-1}$); k_s , sapwood specific hydraulic conductivity ($\text{kg}\cdot\text{m}^{-1}\cdot\text{MPa}^{-1}\cdot\text{s}^{-1}$); P_{50} , cavitation resistance (MPa); SLA, specific leaf area ($\text{cm}^2\cdot\text{g}^{-1}$); VD, vessel (or tracheid) density ($\text{No}\cdot\text{mm}^{-2}$); WD, wood density ($\text{g}\cdot\text{cm}^{-3}$). *, $p < 0.05$; **, $p < 0.01$; ***, $p < 0.001$.