Supporting Information

Surface Roughness of Wood Substrates after Grinding and Its Influence on the Modification Effect of Structural Color Layers

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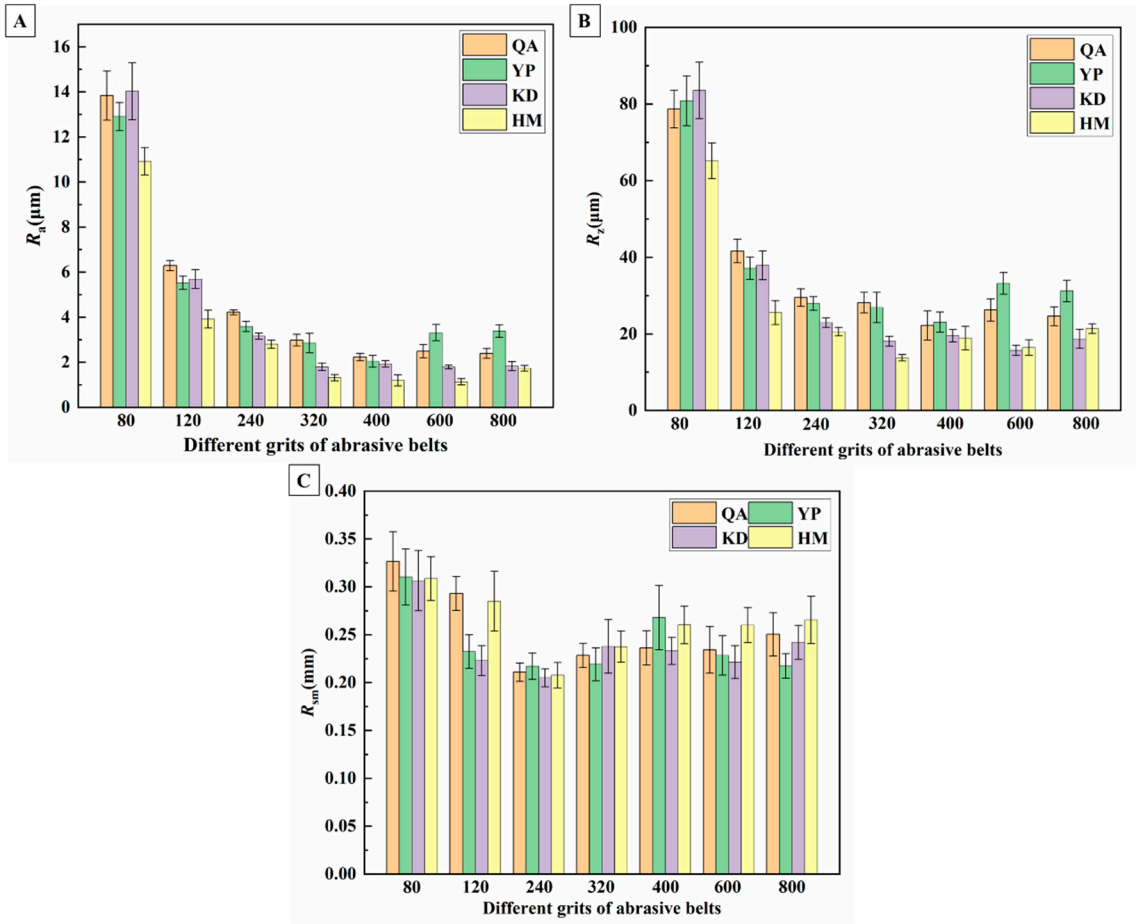


Figure. S1 Comparison of R_a, R_z, and R_{sm} values obtained by grinding with same grits of abrasive belts between the different tree species; **A** R_a; **B** R_z; **C** R_{sm}

Table S1 ANOVA of R_a values of 4 wood species under different grit abrasive belt treatments

Wood species	Abrasive belt grit	Source of variation	SS	df	MS	F	P-value	F crit
QA	80-800	Between group	1051.26	6	175.21	824.91	7.12×10^{-58}	2.25
		Within group	13.38	63	0.21			
		Total	1064.64	69				
	320-800	Between group	3.16	3	1.05	18.17	2.39×10^{-7}	2.87
		Within group	2.09	36	0.06			
		Total	5.25	39				
	400-800	Between group	0.34	2	0.17	3.14	0.06	3.35
		Within group	1.47	27	0.05			
		Total	1.81	29				
YP	80-800	Between group	833.41	6	138.90	974.62	3.98×10^{-60}	2.25
		Within group	8.98	63	0.14			
		Total	842.39	69				
	320-800	Between group	11.35	3	3.78	32.34	2.55×10^{-10}	2.87
		Within group	4.21	36	0.12			
		Total	15.56	39				
	400-800	Between group	11.32	2	5.66	60.96	9.74×10^{-11}	3.35
		Within group	2.51	27	0.09			
		Total	13.82	29				
	320-600	Between group	8.19	2	4.09	31.46	8.84×10^{-8}	3.35
		Within group	3.51	27	0.13			
		Total	11.70	29				
KD	80-800	Between group	1220.98	6	203.50	752.71	1.23×10^{-56}	2.25

		Within group	17.03	63	0.27			
		Total	1238.01	69				
	320-800	Between group	0.13	3	0.04	1.99	0.13	2.84
		Within group	0.86	40	0.02			
		Total	0.99	43				
HM	80-800	Between group	741.72	6	123.62			
		Within group	6.05	63	0.10	1287.03	6.81×10^{-64}	2.25
		Total	747.77	69				
	320-800	Between group	2.23	3	0.74	25.52	5×10^{-9}	2.87
		Within group	1.05	36	0.03			
		Total	3.28	39				
	320-600	Between group	0.18	2	0.09	2.70	0.09	3.35
		Within group	0.91	27	0.03			
		Total	1.09	29				

The measuring instrument meets the requirements of the Chinese national standard GB/T 10610, which equivalent to ISO4288: 1996.