PYROLYSIS OF CONIFEROUS AND DECIDUOUS WOOD WASTES

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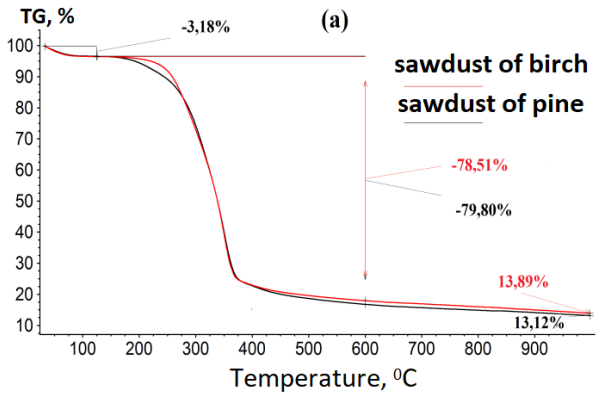
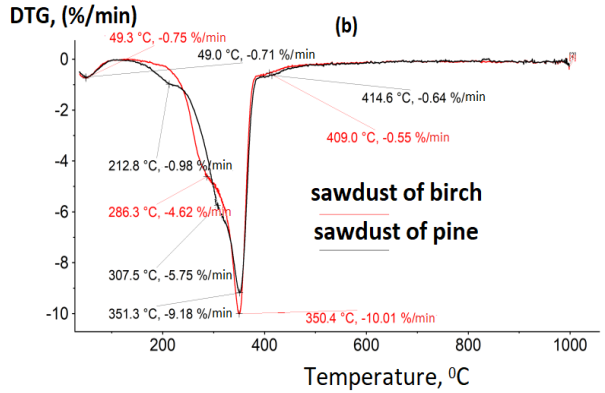
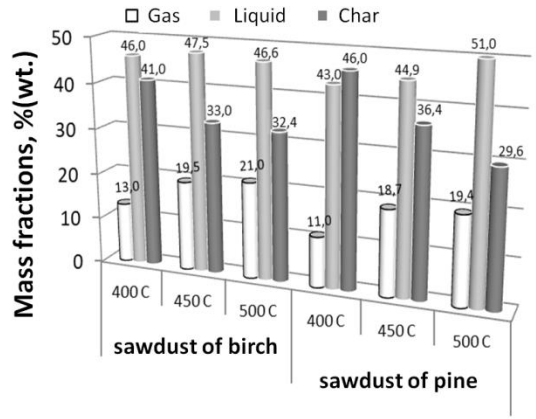
Wood type	Model independent methods		Linear kinetic methods
	ASTM E698	ASTM E1641	
Birch			
Ea, kJ/ mol	141.1±7.3	123.6±9.0	128.2
Aexp n-reactions	9. 90 ·10^{-1}	9.03·10^{-1}	9.3·10^{-1}
R (corr. Factor)	-	-	2.53
	-	-	0.9978
Pine			
Ea, kJ / mol	126.0±5.7	76.3±17.4	119.3
Aexp n-reactions	9.89 ·10^{-1}	4.37·10^{-1}	8.4·10^{-1}
R (corr. Factor)	-	-	2.31
	-	-	0.9975

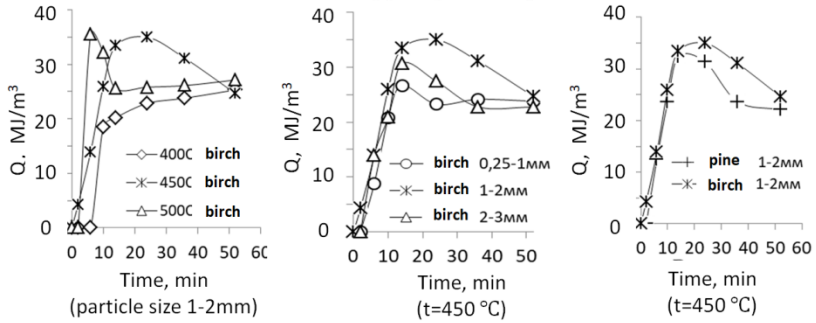




TG (a) and DTG (b) curves for a samples of wood waste



Dependence of the conversion of coniferous and deciduous wood waste on the pyrolysis temperature



Dependences of the heat of combustion of gaseous products on temperature, particle size and type of wood waste

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