

**Research Article:**

**COMPORTAREA TERMICĂ A CINCI  
REZIDUURI DE PALMIER (CURMAL) DIN  
ALGERIA PRIN ANALIZA  
TERMOGRAVIMETRICĂ**

**THERMAL BEHAVIOUR OF FIVE  
DIFFERENT DATE PALM RESIDUES OF  
ALGERIA BY THERMOGRAVIMETRIC  
ANALYSIS**

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**BIBLIOGRAFIE / REFERENCES**

- Agoudjil B, Benchabane A, Boudenne A, Ibos L, Fois M (2011) Renewable materials to reduce building heat loss: Characterization of date palm wood. *Energy and Buildings* 43:491– 497.
- Al-Omari SAB (2006) Experimental investigation on the combustion and heat transfer characteristics in a furnace with unconventional biomass fuels (date stones and palm stalks). *Energy Conversion and Management* 47:778-90.
- Al-Omari SAB (2009) Evaluation of the biomass “date stones” as a fuel in furnaces: a comparison with coal combustion. *International Communications in Heat and Mass Transfer* 36:956 – 61.
- C.D.A.R.S (1996) Le Patrimoine Phoenicicole National, Potentiel et Diversité. Stage de Perfectionnement sur la Phoeniciculture, INFSAS Ouargla.
- El may Y, Jeguirim M, Dorge S, Trouvé G, Siad R (2012) Study on the thermal behavior of different date palm residues: Characterization and devolatilization kinetics under inert and oxidative atmospheres. *Energy* 44:702-709.
- Hafsi S, Benbouzid M (2007) Slow and Flash Pyrolysis of Eucalyptus globulus Wood Research of applied Sciences 2:810- 814.
- Jieheng G (2004) Pyrolysis of wood powder and gasification of wood-derived char. Technische Universiteit Eindhoven pp. 170.
- Lee SY, Doh GH, Kangl A (2006) Thermal behavior of hwangto and wood flour reinforced high density polyethylene (HDPE) composites. *Mokchae Konghak* 34:59-66.
- Lee S, Speight JG, Loyalka SK (2007) Handbook of alternative fuel technologies. CRC Press, Taylor & Francis Group, LLC.
- Maniatis K (2001) Progress in biomass gasification: An overview. In *Progress in Thermochemical Biomass Conversion*.
- Mansaray KG, Ghaly AE (1998) Thermal degradation of rice husks in nitrogen. *Bioresource Technology* 65:13-20.

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Redhead J (1989) Utilization of tropical foods: trees. In: FAO food and nutrition paper No 47:3. FAO, Rome, pp. 52.

Sales C (1979) Le séchage des bois tropicaux, *Revue Bois et forêt des Tropiques* 184:61-71.

Sami M, Annamalai K (1999) The sedimentation velocity of dilute suspensions of nearly monosized spheres. *Energy Combust Sci. Int. J. Multiphase Flow* 25:559-574.

Wielage B, Lampke T, Mark G, Nestler K, Starke D (1999) Thermogravimetric and differential scanning calorimetric analysis of natural fibers and polypropylene. *Thermochim Acta* 337:169-177.