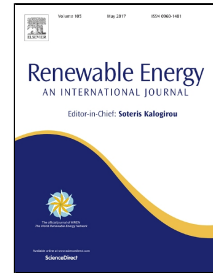


# Accepted Manuscript

Drying Characteristics and Kinetics Solar Drying of Moroccan Rosemary Leaves

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- The concept of characteristic drying curve of rosemary was checked and the drying rate correlation is established in order to an overall expression of the drying kinetics.
- the drying kinetics of rosemary leaves is influencing by the drying air temperature.
- The variation in the drying time according to the drying air flow rate is not very important for high temperature (80°C, 70°C) and become more important for lowest temperatures (60°C, 50°C).
- Midilli– Kucuk model is the most appropriate for describing the kinetics of convective solar drying of rosemary.
- In the covered ranges, the values of the effective moisture diffusivity,  $D_{eff}$ , are obtained from the Fick's diffusion model varying.
- The Arrhenius relation, with an activation energy value of 54.37 kJ/mol, expressed the effect of temperature on the diffusion coefficient.

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