Back to article

Fig. S1. Photograph of the experimental set-up for banana drying: a) forced convection, b) natural convection single slope solar dryer and c) open sun drying

Back to article

Table S1. Uncertainty analysis during drying experiment of red banana

Parameter	Range	Uncertainty value
K type thermocouple	-270 to 1250 °C	±0.05
J type thermocouple	0 to 750 °C	±0.03
Air velocity	0 to 5 m/s	±0.14
Relative humidity of air	0 to 100 %	±0.14
Moisture quantity	0 to 1000 g	±0.001
Global solar radiation	0 to 1650 W/m^2	±5.77
Moisture diffusivity	-0.0 to 3.02 m^2/s	±0.42
Activation energy	0.0 to 2.05 kJ/mol	±0.18
Drying rate	0.002 to 0.24 kg/s	±0.08

Back to article

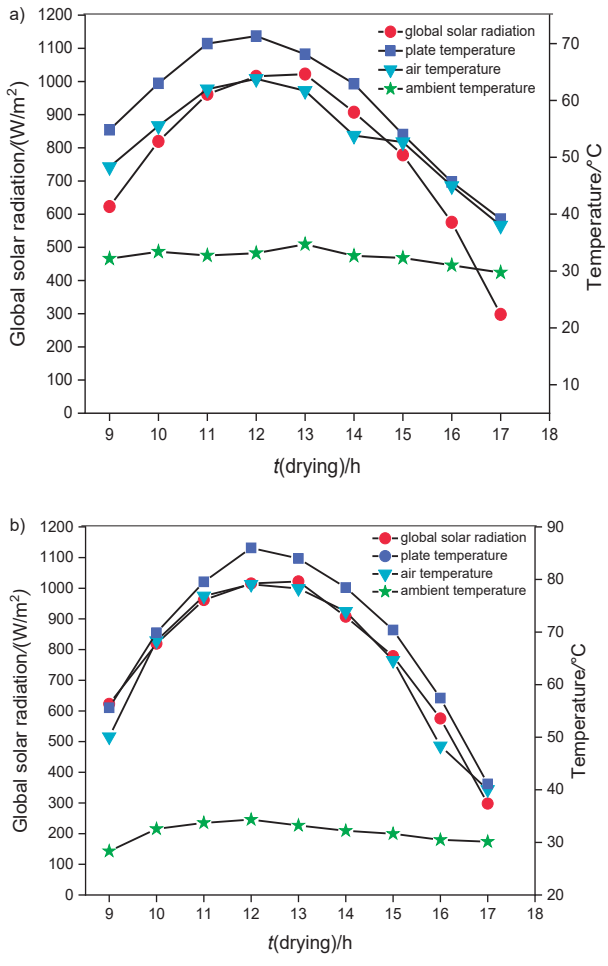

Fig. S2. Variation of solar radiation, ambient temperature, drying air temperature, absorber plate temperature with the drying time of the samples: a) natural convection dryer and b) forced convection dryer

Back to article

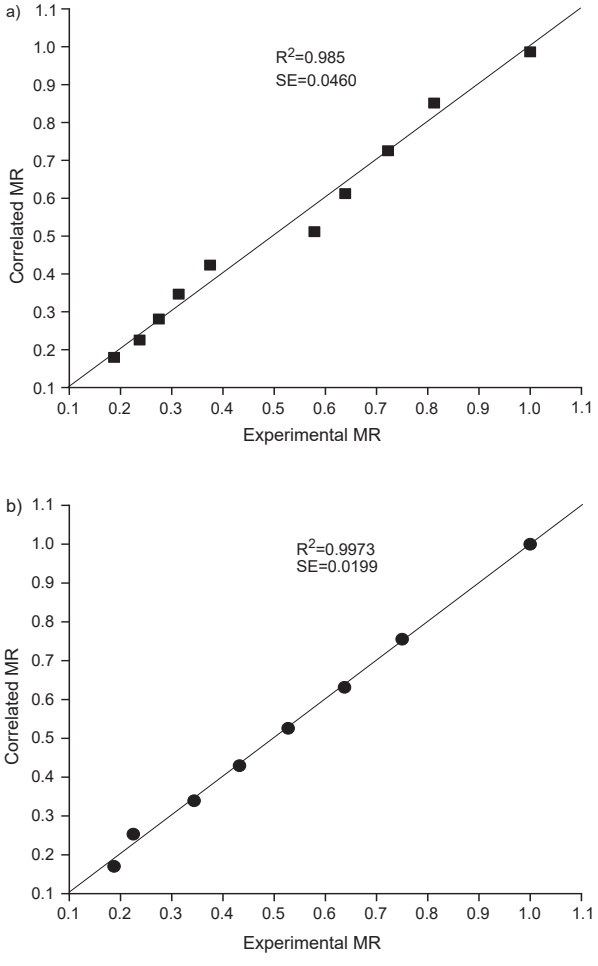

Fig. S3. Parity plot for experimental moisture ratio (MR) *vs* correlated moisture ratio: a) natural convection dryer and b) forced convection dryer