

### Publicaciones científicas en revistas internacionales

- <sup>1</sup> Molina-Aiz F.D., Fatnassi H., Boulard T., Roy J.C. y Valera D.L., 2010.- Comparison of Finite Element and Finite Volume methods for simulation of natural ventilation in greenhouses. *Computers and Electronics in Agriculture*, **72**: 69–86.
- <sup>2</sup> Lopez A., Valera D.L., Molina-Aiz F.D. y Peña A., 2010.- Experimental evaluation by sonic anemometry of airflow in a Mediterranean greenhouse equipped with a pad-fan cooling system. *Transactions of the ASABE*, **53**(3): 945–957.
- <sup>3</sup> Molina-Aiz F.D., Valera D.L., Peña A.A., Gil J.A. y López A., 2009.- A study of natural ventilation in an Almería-type greenhouse with insect screens by means of tri-sonic anemometry. *Biosystem Engineering*, **104** (2): 224–242.
- <sup>4</sup> Molina-Aiz F.D., Fatnassi H., Boulard T., Roy J.C. y Valera D.L., 2008.- Numerical simulation of natural ventilation in greenhouses: a comparison between Finite Volumes Method and Finite Elements Method. *Acta Horticulturae*, **801**: 971–978.
- <sup>5</sup> Molina-Aiz F.D., Valera D.L., Peña A.A. y Gil J.A., 2006.- Analysis of the effect of rollup vent arrangement and wind speed on Almería-type greenhouse ventilation performance using Computational Fluid Dynamics. *Acta Horticulturae*, **719**: 173–179.
- <sup>6</sup> Álvarez A.J., Valera D.L. y Molina-Aiz F.D., 2006.- A method for the analysis of the geometric characteristics of protection screens. *Acta Horticulturae*, **719**: 557–564.
- <sup>7</sup> Molina-Aiz F.D., Valera D.L., Álvarez A.J. y Madueño A., 2006.- A wind tunnel study of airflow through horticultural crops: determination of the drag coefficient. *Biosystem Engineering*, **93** (4): 447–457.
- <sup>8</sup> Valera D.L., Álvarez A.J. y Molina-Aiz F.D., 2006.- Aerodynamic analysis of several insect-proof screens used in greenhouses. *Spanish Journal of Agricultural Research*, **4** (4): 273–279.
- <sup>9</sup> Valera D.L., Molina-Aiz F.D., Álvarez A.J., Terrés-Nicoli J.M., Madueño A. y López J.A., 2005.- Contribution to characterisation of insect-proof screens: experimental measurements in wind tunnel and CFD simulation. *Acta Horticulturae*, **691**: 441–448.
- <sup>10</sup> Molina-Aiz F.D., Valera D.L., Gil J.A. y Peña A.A., 2005.- Optimisation of Almería-type greenhouse ventilation performance with Computational Fluid Dynamics. *Acta Horticulturae*, **691**: 433–440.
- <sup>11</sup> Molina-Aiz F.D., Valera D.L. y Álvarez A.J., 2004.- Measurement and simulation of climate inside Almería-type greenhouses using Computational Fluid Dynamics. *Agricultural and Forest Meteorology*, **125**: 33–51.
- <sup>12</sup> Molina-Aiz F.D., Valera D.L. y Álvarez A.J., 2004.- Using Computational Fluid Dynamics tool to model the internal climate of an Almería-type greenhouse. *Acta Horticulturae*, **654**: 271–278.