

# Agronomy for Sustainable Development

Volume 33 · Number 2 · April 2013

## REVIEW ARTICLES

**Plant biodiversity enhances bees and other insect pollinators in agroecosystems. A review**

C.I. Nicholls · M.A. Altieri 257

**Agriculture and greenhouse gases, a common tragedy. A review**

I. Stavi · R. Lal 275

**Soil compaction impact and modelling. A review**

M.F. Nawaz · G. Bourrié · F. Trolard 291

**Sustainability indicators for livestock farming. A review**

T. Lebacqz · P.V. Baret · D. Stilmant 311

***Sesuvium portulacastrum*, a plant for drought, salt stress, sand fixation, food and phytoremediation. A review**

V.H. Lokhande · B.K. Gor · N.S. Desai · T.D. Nikam · P. Suprasanna 329

## RESEARCH ARTICLES

**Improved field margins highly increase slug activity in Switzerland**

L. Eggenschwiler · B. Speiser · A. Bosshard · K. Jacot 349

**Agroecology publications and coloniality of knowledge**

L.F. Gómez · L. Ríos-Osorio · M.L. Eschenhagen 355

**Climate change impact on China food security in 2050**

L. Ye · W. Xiong · Z. Li · P. Yang · W. Wu · G. Yang · Y. Fu · J. Zou · Z. Chen · E. Van Ranst · H. Tang 363

**No-till and cover crops shift soil microbial abundance and diversity in Laos tropical grasslands**

P. Lienhard · F. Tivet · A. Chabanne · S. Dequiedt · M. Lelièvre · S. Sayphoummie · B. Leudphanane · N.C. Prévost-Bouré · L. Séguy · P.-A. Maron · L. Ranjard 375

**Enhanced blackberry production using *Pseudomonas fluorescens* as elicitor**

D. García-Seco · A. Bonilla · E. Algar · A. García-Villaraco · J.G. Mañero · B. Ramos-Solano 385

**Wheat modeling in Morocco unexpectedly reveals predominance of photosynthesis versus leaf area expansion plant traits**

R. Confalonieri · S. Bregaglio · G. Cappelli · C. Francone · M. Carpani · M. Acutis · M. El Aydam · S. Niemeyer · R. Balaghi · Q. Dong 393

**Weed harrowing in organically grown cereal crops avoids yield losses without reducing weed diversity**

L. Armengot · L. José-María · L. Chamorro · F.X. Sans 405

**Participatory modelling with farmer groups to help them redesign their livestock farming systems**

L. Gouttenoire · S. Courmut · S. Ingrand 413

**89 % reduction of a potato cyst nematode population using biological control and rotation**

D. López-Lima · P. Sánchez-Nava · G. Carrión · A.E. Núñez-Sánchez 425

**90 % yield increase of red pepper with unexpectedly low doses of compost soluble substances**

O. Sortino · M. Dipasquale · E. Montoneri · L. Tomasso · P. Avetta · A. Bianco Prevot 433

## ERRATUM

**Erratum to: Polyethylene and biodegradable mulches for agricultural applications: a review**

S. Kasirajan · M. Ngouajio 443