

REVIEW ARTICLES

Advanced methods of plant disease detection. A review

F. Martinelli · R. Scalenghe · S. Davino · S. Panno ·
G. Scuderi · P. Ruisi · P. Villa · D. Stroppiana ·
M. Boschetti · L.R. Goulart · C.E. Davis ·
A.M. Dandekar 1

Incentives and policies for integrated pest management in Europe: a review

M. Lefebvre · S.R.H. Langrell · S. Gomez-y-Paloma 27

Polysaccharides as safer release systems for agrochemicals

E.V.R. Campos · J.L. de Oliveira · L.F. Fraceto ·
B. Singh 47

Understanding and managing soil biodiversity: a major challenge in agroecology

P. Lemanceau · P.-A. Maron · S. Mazurier · C. Mougél ·
B. Pivato · P. Plassart · L. Ranjard · C. Revellin · V. Tardy ·
D. Wipf 67

A 1961–2010 record of fertilizer use, pesticide application and cereal yields: a review

Y. Liu · X. Pan · J. Li 83

Bioenergy farming using woody crops. A review

C.R.R. Pleguezuelo · V.H.D. Zuazo · C. Biolders ·
J.A.J. Bocanegra · F. PereaTorres · J.R.F. Martínez 95

New insights explain that drought stress enhances the quality of spice and medicinal plants: potential applications

M. Kleinwächter · D. Selmar 121

Sustainable agriculture issues explained by differentiation and structural coupling using social systems analysis

E. Noe · H.F. Alrøe 133

RESEARCH ARTICLES

Network simulations to study seed exchange for agrobiodiversity conservation

M. Pautasso 145

Unexpected fast development of branched broomrape on slow-growing Brassicaceae

S. Gibot-Leclerc · C. Reibel · V. Le Corre ·
F. Dessaint 151

New multi-model approach gives good estimations of wheat yield under semi-arid climate in Morocco

S. Bregaglio · N. Frasso · V. Pagani · T. Stella ·
C. Francone · G. Cappelli · M. Acutis · R. Balaghi ·
H. Ouabbou · L. Paleari · R. Confalonieri 157

Fourteen years of evidence for positive effects of conservation agriculture and organic farming on soil life

L. Henneron · L. Bernard · M. Hedde · C. Pelosi ·
C. Villenave · C. Chenu · M. Bertrand · C. Girardin ·
E. Blanchart 169

Control of tomato whiteflies using the confusion effect of plant odours

C.R. Tosh · B. Brogan 183

Improved wheat grain yield by a new method of root selection

A. Heřmanská · T. Středa · O. Chloupek 195

Free-air CO₂ enrichment modifies maize quality only under drought stress

M. Erbs · R. Manderscheid · L. Hüther · A. Schenderlein ·
H. Wieser · S. Dänicke · H.-J. Weigel 203

Nitrate leaching is not controlled by the slurry application technique in productive grassland on organic–sandy soil

M. Kayser · L. Breitsameter · M. Benke · J. Isselstein 213

Humic substances from vermicompost enhance urban lettuce production

O.L. Hernandez · A. Calderín · R. Huelva ·
D. Martínez-Balmori · F. Guridi · N.O. Aguiar ·
F.L. Olivares · L.P. Canellas 225

Pest control by microwave and radio frequency energy: dielectric properties of stone fruit

B. Ling · G. Tiwari · S. Wang 233

DNA pyrosequencing evidence for large diversity differences between natural and managed coffee mycorrhizal fungal communities

M. De Beenhouwer · D. Muleta · B. Peeters · M. Van Geel ·
B. Lievens · O. Honnay 241

A new grafted rootstock against root-knot nematode for cucumber, melon, and watermelon

B. Liu · J. Ren · Y. Zhang · J. An · M. Chen · H. Chen ·
C. Xu · H. Ren 251

High waste-to-biomass conversion and efficient *Salmonella* spp. reduction using black soldier fly for waste recycling

C.H. Lalander · J. Fidjeland · S. Diener · S. Eriksson · B. Vinnerås 261

Semi-natural vegetation in agricultural land: European map and links to ecosystem service supply

C. García-Feced · C.J. Weissteiner · A. Baraldi · M.L. Paracchini · J. Maes · G. Zulian · M. Kempen · B. Elbersen · M. Pérez-Soba 273

Dry direct-seeded rice as an alternative to transplanted-flooded rice in Central China

H. Liu · S. Hussain · M. Zheng · S. Peng · J. Huang · K. Cui · L. Nie 285

A multivariate methodology to distinguish among wine *Appellations of Origin*

M.R. González-Centeno · S. Adrover-Obrador · S. Simal · M.A. Frau · A. Femenia · C. Rosselló 295

High environmental risk and low yield of urban tomato gardens in Benin

A. Perrin · C. Basset-Mens · J. Huat · W. Yehouessi 305

Biocontrol of sheath blight by *Trichoderma asperellum* in tropical lowland rice

S.K.S. de França · A.F. Cardoso · D.C. Lustosa · E.M.L.S. Ramos · M.C.C. de Filippi · G.B. da Silva 317

A new method to assess farming system evolution at the landscape scale

P. Chopin · J.-M. Blazy · T. Doré 325

Long-term feasibility of reduced tillage in organic farming

L. Armengot · A. Berner · J.M. Blanco-Moreno · P. Mäder · F.X. Sans 339

Simulation of field NH₃ and N₂O emissions from slurry spreading

B. Langevin · S. Géniermont · C. Basset-Mens · L. Lardon 347

Winter turnip rape as a soil N scavenging catch crop in a cool humid climate

A. Tuulos · M. Yli-Halla · F. Stoddard · P. Mäkelä 359

ERRATUM

Erratum to: Winter turnip rape as a soil N scavenging catch crop in a cool humid climate

A. Tuulos · M. Yli-Halla · F. Stoddard · P. Mäkelä 367

Abstracted/Indexed in Science Citation Index Expanded (SciSearch), Journal Citation Reports/Science Edition, SCOPUS, Chemical Abstracts Service (CAS), Google Scholar, EBSCO, CSA, ProQuest, CAB International, Academic Search, Biological Abstracts, BIOSIS, CAB Abstracts, CSA Environmental Sciences, Current Contents/ Agriculture, Biology & Environmental Sciences, Elsevier Biobase, Food Science and Technology Abstracts, Geobase, Global Health, OCLC, PASCAL, SCImago, Summon by ProQuest.