

XVI International Plant Nutrition Colloquium

Session F: Environmental Plant Nutrition – Trees, Roots and Climate

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- 1018 Response Of Citrus *volkameriana* (L.) Plants To Different Mn Concentrations Under Hydroponic Conditions. *Ioannis Papadakis (Laboratory Of Pomology, School Of Agriculture, Aristotle University, Thessaloniki, Greece) et al.* ([PDF](#))
- 1019 Effects Of Organomineral, Mineral And Farmyard Manures On The Yield And Quality Of Olive Trees (*Olea europaea* L.). *Tulin Pekcan (Olive Research Institute) et al.* ([PDF](#))
- 1024 Investigation Of Vesicular – Arbuscular Mycorrhizal (VAM) On Yield Quantity And Quality Of Sorghum Cultivars Under Irrigation In Arid Area. *Mohsen Moussavinik (University Of Birjand, Iran) and Ahmad Mehraban (Azade University, Iran)* ([PDF](#))
- 1031 Silicon Absorption By Sugarcane: Effect Of Soils Type And Silicate Fertilization. *Monica Sartori De Camargo (APTA Polo Centro Sul) et al.* ([PDF](#))
- 1051 Difference In Acquisition Of Soil Organic Nitrogen Between Pak-Choi And Tomato. *Toshihiro Watanabe (Hokkaido University) et al.* ([PDF](#))
- 1061 Screening Arabidopsis Activation Tagged Lines Based On Tolerance To Low Zn In Hydroponics. *Gokhan Hacisalihoglu (Florida Agricultural And Mechanical University) et al.* ([PDF](#))
- 1071 Malate Exudation By Aerobic Rice (*Oryza sativa* L.) Grown On A Low Zn Soil. *Xiaopeng Gao (Department Of Soil Science, University Of Manitoba, Winnipeg, Mb, Canada) et al.* ([PDF](#))
- 1087 Mechanism Of Rhizosphere Acidification In Three Plant Species Seedling. *Jing Cao (Key Laboratory Of Arid And Grassland Ecology, Ministry Of Education, School Of Life Sciences, Lanzhou University, China) et al.* ([PDF](#))
- 1090 Arbuscular Mycorrhizal Colonization And Mycorrhizal Dependency: A Comparison Among Soybean, Sunflower And Maize. *Mariana Fernandez (University Of Buenos Aires) et al.* ([PDF](#))
- 1106 Effects Of *Pseudomonas* Sp. “Proradixa” And *Bacillus amyloliquefaciens* FZB42 On The Establishment Of AMF Infection, Nutrient Acquisition And Growth Of Tomato Affected By *Fusarium oxysporum* Schlecht f.sp. *radicis-lycopersici* Jarvis And Shoemaker. *Yusran Yusran (Institute For Plant Nutrition, Hohenheim University, Germany) et al.* ([PDF](#))
- 1128 The Role Of Macro-Nutrients In Olive Tree Flowering And Fruit Set. *Uri Yermiyahu (Gilat Research Center, Agricultural Research Organization, Israel) et al.* ([PDF](#))

- 1143 Some Observations On Reproductive Growth Of Groundnut (*Arachis Hypogaea* L.) In Simplified Nutrient Solutions. *Godfrey Zharare (University Of Zululand) et al.* ([PDF](#))
- 1153 Concentration And Plant Availability Of Lead In Phosphorus Sources Marketed In Brazil. *Eriberto Freitas (Rural Federal University Of Pernambuco) and et al.* ([PDF](#))
- 1161 Uptake And Redistribution Of Phosphorus (32P) In Citrus Is Affected By Rootstock Varieties. *Dirceu Mattos (Instituto Agronomico (IAC)) et al.* ([PDF](#))
- 1171 Rice Root Growth With Increasing In Plant Hormone And Allantoin By Inosine In Nutrient Solution. *Dai Tokuhisa (Hokkaido University) et al.* ([PDF](#))
- 1179 Growth And Nutrient Uptake Into Mangosteen (*Garcinia mangostana* L.) Fruit. *Sumitra Poovarodom (King Mongkut's Institute Of Technology Ladkrabang)* ([PDF](#))
- 1191 Neem Cake Decoction For Correction Of Micronutrients Disorder In Mango. *M. Edward Muthaia (Indian Council Of Agricultural Research)* ([PDF](#))
- 1193 Is Mango Genetically Prone To Zinc Deficiency: An Investigation In Peninsular India. *Edward Muthaia (Indian Council Of Agricultural Research)* ([PDF](#))
- 1195 Analysis Of The Spatial Expression Patterns Of Rice Iron Deficiency-Responsive Element-Binding Factors IDEF1 And IDEF2. *Yuko Ogo (The University Of Tokyo) et al.* ([PDF](#))
- 1204 Overexpression Of OsIRO2 Improves Both Iron Uptake And Translocation To Seeds In Rice. *Yuko Ogo (University Of Tokyo) et al.* ([PDF](#))
- 1205 Effects Of Controlled-Release Fertilizer Application With Cow Manure On Yield (*Brassica napa* L), Drainage Water Quality And N₂O Emission. *Suphachai Amkha (Kasetsart University) and Kazuyuki Inubushi (Chiba University)* ([PDF](#))
- 1209 Expressions Of Iron Uptake Genes In Roots Are Affected By Long-Distance Signals Both In Non-Graminaceous And In Graminaceous Plants. *Yusuke Enomoto (Tokyo University Of Science) et al.* ([PDF](#))
- 1210 Ammonium Effects On Nitrate Uptake By Roots Of Upland And Paddy Rice Seedlings Related To Transmembrane Potential Differences. *Xiaoli Wang (Yangzhou University, China) et al.* ([PDF](#))
- 1219 Major Nitrogen Loss Pathways In Upland Blueberry Soils. *Imre Vano (Chiba University, Faculty Of Horticulture, Matsudo, Japan)* ([PDF](#))
- 1241 The Expression Of P-Responsive Genes Is Related To Root Hair Growth. *Melanie Bremer (Leibniz Universitat Hannover) and Manfred Schenk* ([PDF](#))

- 1242 Soil Microbial Response To Controlled-Release Urea Under Zero Tillage And Conventional Tillage In Western Canada. *Newton Lupwayi (Agriculture & Agri-Food Canada) et al.* ([PDF](#))
- 1243 Effects Of Water-Extratable Humic Substances On Molecular Physiology Of Nitrate Uptake In Two Maize Inbred Lines With Different Nitrogen Use Efficiency. *Nicola Tomasi (Disa-University Of Udine) et al.* ([PDF](#))
- 1249 Influence Of Associative Bacteria On Root Morphology Of Arabidopsis Plants In Dependence On The Supplied Nitrogen Form. *Claudia Weishaar (University Of Hohenheim)* ([PDF](#))
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- 1307 Identification Of Plant Nutrient Transporters In Arbuscular-Mycorrhizal Roots Using A Micro- Array Approach. *Mike Guether (Dipartimento Di Biologia Vegetale Dell'Universita Di Torino) and Paola Bonfante (Dipartimento Di Biologia Vegetale Dell'Universita Di Torino)* ([PDF](#))
- 1308 The Effect Of Manure And Fertilizer Applications On Soil Sulfur Fractions. *Jiri Balik (Czech University Of Life Sciences Prague) et al.* ([PDF](#))
- 1327 Carbon Sequestration And Gas Emissions In Paddy Field Ecosystem Affected By Nitrogen Application In Purplish Soil, Southwest China. *Yuying Wang (Center For Agricultural Resources Research, Institute Of Genetics And Developmental Biology, Chinese Academy Of Sciences, Shijiazhuang, China) et al.* ([PDF](#))
- 1328 Nitrogen Balance In Intensive Agriculture In The North China Plain. *Yuming Zhang (Institute Of Genetic And Developmental Biology, Chinese Academy Of Sciences) et al.* ([PDF](#))
- 1341 'N-Sight' Technique: A Visual And Quantitative Analysis Of Urea Hydrolysis And Ammonia Loss From Soil. *Stephan Blossfeld (Forschungszentrum Juelich, Germany) et al.* ([PDF](#))

- 1360 The Seasonal Effects On Nitrogen Uptake From ¹⁵N-Labelled Leaf Litter In European Beech (*Fagus sylvatica* L.). *Chanjuan Guo* (*Chair Of Tree Physiology, Institute Of Forest Botany And Tree Physiology, University Of Freiburg*) et al. ([PDF](#))
- 1369 Long Term Effects Of Nutrient Management And Cropping Systems On Soil Organic Carbon Stock Of Groundnut Based Cropping Systems. *Ram Jat* (*Directorate Of Groundnut Research, Icar, India*) ([PDF](#))
- 1375 Effect Of Two Rootstock Selections On The Seasonal Nutritional Variability Of Braeburn Apple. *Juan Hirzel* (*Instituto De Investigaciones Agropecuarias, Chillan, Chile*) and *Stanley Best* (*Instituto De Investigaciones Agropecuarias, Chillan, Chile*) ([PDF](#))
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- 1382 A New Nitrogen And Potassium Fertilization Management Program For Clementine Mandarin Under Mediterranean Climate. *Abdelkader Hammami* (*National Agronomic Institute Of Tunisia*) et al. ([PDF](#))
- 1383 Effects Of B Deficiency On Legume Nodule Organogenesis. Is Boron Involved In Signalling During Cell Cycle Regulation? *Maria Reguera* (*Universidad Autonoma De Madrid*) et al. ([PDF](#))
- 1388 Boron Deficiency In The Legume-Rhizobia Interaction: Symbiosis Or Pathogenesis? *Maria Reguera* (*Universidad Autonoma De Madrid*) et al. ([PDF](#))
- 1394 Phosphorus Depletion From Rhizosphere Solution By Maize Grown In Compost-Amended Soil. *Leandro Bortolon* (*Federal University Of Rio Grande Do Sul*) et al. ([PDF](#))
- 1415 Wheat Root Exudates Affected Phosphorus Uptake And Growth Of Soybean In Two Farming Systems. *Yanli Nie* (*Yunnan Agricultural University, Kunming, China; Yunnan Forestry Technology Extension, Yunnan Academy Of Forestry, Kunming, China; Soil And Water Science Department, Tropical Research And Education Center, Ifas, University*) et al. ([PDF](#))
- 1416 Impact Of Foliar Fertilizer Containing Iodine On “Golden Delicious” Apple Trees. *Eugeniusz Szwonek* (*Research Institute Of Pomology And Floriculture*) ([PDF](#))
- 1420 Planar Optodes: Promising Tools For Non-Invasive 2D Imaging Of Rhizospheric Dynamics Of pH, O₂ And CO₂. *Stephan Blossfeld* (*Research Center Juelich, Juelich Germany*) et al. ([PDF](#))

- 1421 Responses Of Olive Trees (cv. Chemlali) After Five Years Of Experiment To Potassium Mineral Nutrition Under Rainfed Condition. *Olfa Elloumi (Institut National Agronomique De Tunisie) et al.* ([PDF](#))
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