

Publicaciones año 2021

| AUTHORS | TITLE | DOI | SOURCE TITLE |
|---|--|---|---|
| Angulo M, García MJ, Alcántara E, Pérez-Vicente R, Romera FJ | Comparative study of several Fe deficiency responses in the <i>Arabidopsis thaliana</i> ethylene insensitive mutants <i>ein2-1</i> and <i>ein2-5</i> | 10.3390/plants10020262 | Plants |
| García MJ, Angulo M, García C, Lucena C, Alcántara E, Pérez-Vicente R, Romera FJ | Influence of ethylene signaling in the crosstalk between Fe, S, and P deficiency responses in <i>Arabidopsis thaliana</i> | 10.3389/fpls.2021.643585 | Frontiers in Plant Science |
| García MJ, Lucena C, Romera FJ | Ethylene and nitric oxide involvement in the regulation of Fe and P deficiency responses in dicotyledonous plants | 10.3390/ijms22094904 | International Journal of Molecular Sciences |
| Lucena C, Alcalá Jiménez MT, Romera FJ, Ramos J | Several yeast species induce iron deficiency responses in cucumber plants (<i>Cucumis sativus</i> L.) | 10.3390/microorganisms9122603 | Microorganisms |
| Romera FJ, Lan P, Rodríguez-Celma J, Pérez-Vicente R | Editorial: Nutrient Interactions in Plants | 10.3389/fpls.2021.782505 | Frontiers in Plant Science |
| García-Tejera O, López-Bernal Á, Orgaz F, Testi L, Villalobos FJ | The pitfalls of water potential for irrigation scheduling | https://doi.org/10.1016/j.agwat.2020.106522 | Agricultural Water Management |
| Moldero D, López-Bernal Á, Testi L, Lorite IJ, Fereres E, Orgaz F | Long-term almond yield response to deficit irrigation | https://doi.org/10.1007/s00271-021-00720-8 | Irrigation Science |
| López-Bernal Á, Fernandes-Silva AA, Vega VA, Hidalgo JC, León L, Testi L, Villalobos FJ | A fruit growth approach to estimate oil content in olives | https://doi.org/10.1016/j.eja.2020.126206 | European Journal of Agronomy |
| Poyatos R, et al. (164 authors, including López-Bernal Á) | Global transpiration data from sap flow measurements: the SAPFLUXNET database | https://doi.org/10.5194/essd-13-2607-2021 | Earth System Science Data |

Publicaciones año 2021

| AUTHORS | TITLE | DOI | SOURCE TITLE |
|---|---|---|--|
| Kamkar B, Razavi SE, Sadeghipour HR, López-Bernal Á | Would it be possible to use nonpathogenic fungi to improve the turnover of crop residues? | https://doi.org/10.1002/jobm.202100183 | Journal of Basic Microbiology |
| H Mairech, Á López-Bernal, M Moriondo, C Dibari, L Regni, P Proietti, FJ. Villalobos, L Testi | Sustainability of olive growing in the Mediterranean area under future climate scenarios: Exploring the effects of intensification and deficit irrigation | https://doi.org/10.1016/j.eja.2021.126319 | European Journal of Agronomy |
| J. Benavides, E. Hernández-Plaza, L. Mateos, E. Fereres | A global analysis of irrigation scheme water supplies in relation to requirements | https://doi.org/10.1016/j.agwat.2020.106457 | Agricultural Water Management |
| Benavides, J.; Mateos, L.; García-Vila, M.; Fereres, E. | Evaluating irrigation scheme performance in a tropical environment: The Guanacaste scheme, Costa Rica | https://doi.org/10.1002/ird.2621 | Irrigation and Drainage |
| F. Lecaros-Arellano, E. Holzapfel, E. Fereres, D. Rivera, N. Muñoz, J. Jara | Effects of the number of drip laterals on yield and quality of apples grown in two soil types | https://doi.org/10.1016/j.agwat.2021.106781 | Agricultural Water Management |
| T.R. Tenreiro, M. García-Vila, J.A. Gómez, J.A. Jiménez-Berni, E. Fereres | Using NDVI for the assessment of canopy cover in agricultural crops within modelling research | https://doi.org/10.1016/j.compag.2021.106038 | Computers and Electronics in Agriculture |
| F. Vita Serman, F., G., F. Capraro, E. Fereres | Water productivity and net profit of high-density olive orchards in San Juan, Argentina | https://doi.org/10.1016/j.agwat.2021.106878 | Agricultural Water Management |

Publicaciones año 2021

| AUTHORS | TITLE | DOI | SOURCE TITLE |
|---|---|---|--|
| J.M. Cabezas, M. Ruiz-Ramos, M.A. Soriano, C. Santos, C. Gabaldón-Leal, I.J. Lorite | Impact of climate change on economic components of Mediterranean olive orchards | https://doi.org/10.1016/j.agwat.2021.106760 | Agricultural Water Management |
| J.A. Gómez, A. Sánchez Montero, G. Guzmán, M.A. Soriano | In-depth analysis of soil management and farmers' perceptions of related risks in two olive grove areas in southern Spain | https://doi.org/10.1016/j.iswcr.2021.01.003 | International Soil and Water Conservation Research |
| Hager, W.H., Castro-Orgaz, O. | Charles Bresse: Hydraulician and textbook author. | https://doi.org/10.1061/(ASCE)HY.1943-7900.0001836 | Journal of Hydraulic Engineering 147(3), 02521001. |
| M. Porcaro; F. Comino; T. Vanwalleghem; M. Ruiz de Adana; | Exploring the reduction of energy demand of a building with an eco-roof under different irrigation strategies, | https://doi.org/10.1016/j.scs.2021.103229. | Sustainable Cities and Society |
| García Montoya, J.P., Giraldez Cervera, J.V., Vanwalleghem, T., | Climate and land use change effects on sediment production i... | https://doi.org/10.3390/w13162233 | Water |
| Vanmaercke, M., Panagos, P., Vanwalleghem, T., Hayas, A., Foerster, S., Borrelli, P., Rossi, M., Torri, D., Casali, J., Borselli, L., Vigiak, O., Maerker, M., Haregeweyn, N., De Geeter, S., Zgłobicki, W., Bielders, C., Cerdà, A., Conoscenti, C., de Figueiredo, T., Evans, B., Golosov, V., Ionita, I., Karydas, C., Kertész, A., Krásá, J., Le Bouteiller, C., Radoane, M., Ristić, R., Rousseva, S., Stankoviansky, M., Stolte, J., Stolz, C., Bartley, R., Wilkinson, S., Jarihani, B., Poesen, J., | Measuring, modelling and managing gully erosion at large scales: A state of the art. | https://doi.org/10.1016/j.earscirev.2021.103637 | Earth-Science Reviews |

Publicaciones año 2021

| AUTHORS | TITLE | DOI | SOURCE TITLE |
|--|--|---|--------------------------------------|
| García-Gamero, V.; Peña, A.; Laguna, A.M.; Giráldez, J.V.; Vanwalleghem, T. | Factors controlling the asymmetry of soil moisture and vegetation dynamics in a hilly mediterranean catchment. | https://doi.org/10.1016/j.jhydrol.2021.126207 | J. of Hydrology |
| Román-Sánchez, A.; Temme, A.; Willgoose, G.; van den Berg, D.; Gura, C.M.; Vanwalleghem, T., | The fingerprints of weathering: Grain size distribution changes along weathering sequences in different lithologies. | https://doi.org/10.1016/j.geoderma.2020.114753 | Geoderma |
| Jesús Fernández-Habas; María Teresa Hidalgo-Fernández; José Ramón Leal-Murillo; Pilar Méndez; José L Quero; Tom Vanwalleghem; Pilar Fernández-Rebollo. | Effects of two water regimes on morphological traits, nutritive value and physiology of three <i>Bituminaria bituminosa</i> varieties from the Canary Islands. | https://onlinelibrary.wiley.com/doi/abs/10.1111/jac.12485 | Journal of Agronomy and Crop Science |
| Romero-Rodríguez, Joaquín; Moral-Moral, Juan; González-Domínguez, Elisa; Agustí, Carlos; Roca-Castillo, Luis Fernando; Rossi, Vittorio; Trapero-Casas, Antonio | Logistic models to predict olive anthracnose under field conditions | https://doi.org/10.1016/j.cropro.2021.105714 | Crop protection |
| Moral-Moral, Juan; Agustí, Carlos; Raya-Ortega, María Del Carmen; JURADO-BELLO, JOSÉ; López, Ana; Roca-Castillo, Luis Fernando; Chattaoui, M; Rhouma, A; Nigro, F; Sergeeva, V; Trapero-Casas, Antonio | Diversity of <i>Colletotrichum</i> species associated with olive anthracnose worldwide | https://doi.org/10.3390/jof7090741 | Journal of Fungi |
| Shambhavi Yadav Joana Carvalho Isabel Trujillo Navas Marta Prado | Microsatellite markers in olive (<i>Olea europaea</i> L.) utility in cataloging of germplasm, food authenticity and traceability studies. | https://doi.org/10.3390/foods10081907 | Foods: Open Access Journal |

Publicaciones año 2021

| AUTHORS | TITLE | DOI | SOURCE TITLE |
|--|--|---|-------------------------------------|
| López, Ana; Agustí, Carlos; Raya, M.c.; Lovera, Maria; Trapero-Ramírez, Carlos; Arquero-Quilez, Octavio; Trapero-Casas, Antonio | Etiology of Septoria Leaf Spot of Pistachio in Southern Spain | 10.1094/PDIS-02-21-0331-RE | Plant Disease |
| Taguas-Ruiz, Encarnación Victoria; Muñoz-Díez, Mª Concepción; Barranco-Navero, Diego; Mateos-Iñiguez, Luciano; Quero-Pérez, José Luis | Opportunities of super high-density olive orchard to improve soil quality: Management guidelines for application of pruning residues | https://doi.org/10.1016/j.jenvman.2021.112785 | Journal of Environmental Management |
| Serrano-Moral, María Del Perpetuo Socorro; Pérez, Francisco José; Gómez-Aparicio, Lorena | Disentangling the interactive effects of climate change and <i>Phytophthora cinnamomi</i> on coexisting Mediterranean tree species | https://doi.org/10.1016/j.agrformet.2020.108295 | Agricultural and Forest Meteorology |
| Miho, Hristofor; Moral-Moral, Juan; Barranco-Navero, Diego; Ledesma, Carlos Augusto; Priego-Capote, Feliciano; Muñoz-Díez, Mª Concepción | Influence of genetic and interannual factors on the phenolic profiles of virgin olive oils | 10.1016/j.foodchem.2020.128357 | Food Chemistry |
| Valverde, Pedro; Trapero-Ramírez, Carlos; López-Escudero, Francisco Javier; Barranco-Navero, Diego; Muñoz-Díez, Mª Concepción | Assessment of Maternal Effects and Genetic Variability in Resistance to <i>Verticillium dahliae</i> in Olive Progenies | http://dx.doi.org/10.3390/plants10081534 | Plants |
| Miranda-Fuentes, P.a, Yousef-Yousef, M., Valverde-García, P., Rodríguez-Gómez, I.M., Garrido-Jurado, I., Quesada-Moraga, E. | Entomopathogenic fungal endophyte-mediated tritrophic interactions between <i>Spodoptera littoralis</i> and its parasitoid <i>Hypothesis didymator</i> | https://doi.org/10.1007/s10340-020-01306-7 | Journal of Pest Science |
| Natalia González-Mas; Rafael Valverde-García; Fernando Gutiérrez-Sánchez; Enrique Quesada-Moraga | Effect of passage through the plant on virulence and endophytic behavioural adaptation in the entomopathogenic fungus <i>Beauveria bassiana</i> | https://doi.org/10.1016/j.biocontrol.2021.104687 | Biological Control |

Publicaciones año 2021

| AUTHORS | TITLE | DOI | SOURCE TITLE |
|---|---|---|--|
| González-Guzmán, A., Sánchez-Rodríguez, A.R., Quesada-Moraga, E., del Campillo, M.C., Yousef-Yousef, M. | Optimizing wheat seed treatment with entomopathogenic fungi for improving plant growth at early development stages | https://doi.org/10.5424/sjar/2021194-17120 | Spanish Journal of Agricultural Research |
| Gonzalez-Guzman, A., Raya-Diaz, S., Sacristán, D., Yousef, M., Sánchez-Rodríguez, A.R., Barrón, V., del Campillo, M.C., Torrent, J. | Effects of entomopathogenic fungi on durum wheat nutrition and growth in the field. | https://doi.org/10.1016/j.eja.2021.126282 | European Journal of Agronomy |
| Golan, K., Garrido-Jurado, I., Kot, I., Górska-Drabik, E., Kmiec, K., Łagowska, B., Skwaryło-Bednarz, B., Jamiołkowska, A. | Defense Responses in the Interactions between Medicinal Plants from Lamiaceae Family and the Two-Spotted Spider Mite <i>Tetranychus urticae</i> Koch (Acari: Tetranychidae) | https://doi.org/10.3390/agronomy11030438 | Agronomy |
| C Salazar, RM Navarro-Cerrillo, N Grados, G Cruz, V Barron, R Villar | <u>Leaf nutrients in <i>Prosopis pallida</i> are determined by soil chemical attributes under eutric conditions in a dryland forest</u> | 10.1007/s00468-020-02038-y | Trees |
| AR Sánchez-Rodríguez, M Marín-Paredes, A González-Guzmán, JM Méndez, M Sánchez-Parra, D Sacristán, M Fuentes-García, V Barrón, J Torrent, MC del Campillo | <u>Zinc biofortification strategies for wheat grown on calcareous Vertisols in southern Spain: application method and rate</u> | 10.1007/s11104-021-04863-7 | Plant and Soil |
| A Gonzalez-Guzman, S Raya-Diaz, D Sacristán, M Yousef, AR Sánchez-Rodríguez, V Barrón, MC del Campillo, J Torrent | <u>Effects of entomopathogenic fungi on durum wheat nutrition and growth in the field</u> | 10.1016/j.eja.2021.126282 | European Journal of Agronomy |
| P Salazar , A Diaz-Herraiz, M Olmo, P Ruiz-Benito, V Barrón, C C Bastias, G Enrique, R Villar | <u>Linking functional traits with tree growth and forest productivity in <i>Quercus ilex</i> forests along a climatic gradient</u> | 10.1016/j.scitotenv.2021.147468 | Science of the Total Environment |

Publicaciones año 2021

| AUTHORS | TITLE | DOI | SOURCE TITLE |
|--|---|--|--|
| E Quesada-Moraga, MYousef-Yousef, A González-Guzmán, A R Sánchez-Rodríguez, MC del Campillo | <u>Optimizing wheat seed treatment with entomopathogenic fungi for improving plant growth at early development stages</u> | 10.5424/sjar/2021194-17120 | Spanish Journal of Agricultural Research |
| A Rafael Sánchez-Rodríguez, MD Rey, H Nechate-Drif, MA Castillejo, J V Jorrín-Novo, JTorrent, MC Del Campillo, D Sacristán | <u>Combining P and Zn fertilization to enhance yield and grain quality in maize grown on Mediterranean soils</u> | 10.1038/s41598-021-86766-2 | Scientific reports |
| J Fink, AR Sánchez-Rodríguez, G Frosi, D Eckert, J Andrade Bonetti, K Bastiani, A Lavratti, A Vasconcellos Inda, A Zanquetti | <u>Industrial saline wastewater in a corn-soybean rotation to enhance crop yield without compromising soil health in a subtropical soil</u> | 10.1016/j.jenvman.2021.113341 | Journal of Environmental Management |
| DM McKay Fletcher, Rory Shaw, AR Sánchez-Rodríguez, KR Daly, A Van Veelen, Davey L Jones, T Roose | <u>Quantifying citrate-enhanced phosphate root uptake using microdialysis</u> | 10.1007/s11104-019-04376-4 | Plant and Soil |
| López-Moral, A., Agustí-Brisach, C., Trapero, A. | Plant Biostimulants: New Insights Into the Biological Control of Verticillium Wilt of Olive. | doi: 10.3389/fpls.2021.662178 | Frontiers in Plant Science |
| Agustí-Brisach, C., Jiménez-Urbano, J.P., Raya, M.C., López-Moral, A., Trapero, A. | Vascular fungi associated with branch dieback of Olive in super-high-density systems in Southern Spain. | https://doi.org/10.1094/PDIS-08-20-1750-RE. | Plant Disease |
| ElDesouki-Arafat, I., Aldebis-Albunnai, H., Vargas-Osuna, E., Trapero, A., López-Escudero, F.J. | Lack of evidence for transmission of <i>Verticillium dahliae</i> by the Olive Bark Beetle <i>Phloeotribus scarabaeoides</i> in Olive Trees. | https://doi.org/10.3390/pathogens10050534. | Pathogens |
| Pedro Valverde, Carlos Trapero, Octavio Arquero, Nicolás Serrano, Diego Barranco, Concepción Muñoz Díez, Francisco J. López-Escudero | Highly infested soils undermine the use of resistant olive rootstocks as a control method of verticillium wilt | https://doi.org/10.1111/ppa.13264 | Plant Pathology |

Publicaciones año 2021

| AUTHORS | TITLE | DOI | SOURCE TITLE |
|--|--|---|---------------------|
| P Valverde Caballero, C Trapero Ramírez, D Barranco Navero, FJ López-Escudero, A Gordon Bermúdez-Coronel, CM Díez | Assessment of Maternal Effects and Genetic Variability in Resistance to <i>Verticillium dahliae</i> in Olive Progenies. | DOI: 10.3390/plants10081534 | Plants |
| Abdenaceur Reghmit, Farida Benzina-tihar, Francisco Javier López Escudero, Fatma Halouane-Sahir, Zahia Oukali, Souhila Bensmail, Nourelhouda Ghazali | Trichoderma spp. isolates from the rhizosphere of healthy olive trees in northern Algeria and their biocontrol potentials against the olive wilt pathogen, <i>Verticillium dahliae</i> | https://doi.org/10.1007/s13165-021-00371-1 | Organic Agriculture |
| Muñoz, R.M., Lerma, M.L., Castillo, P., Tolosa, V., Olmo, D., Trapero, A., Agustí-Brisach, C. | First report of <i>Lasiodiplodia theobromae</i> causing crown canker of almond in Spain. | Https://doi.org/10.1007/s42161-021-00977-0 . | J Plant Pathology. |
| Zapata Sierra, A.J.; Roldán Cañas, J.; Reyes Requena, R.; Moreno Pérez, M.F. | Calibración del modelo Hydrus-3D para el riego localizado en suelos estratificados con cultivo intensivo (enarenado) | https://doi.org/10.4995/la.2021.13159 | Ingeniería del Agua |
| Contreras, J.I.; Roldán Cañas, J.; Moreno Pérez, M.F.; Gavilán, P.; Lozano, D.; Baeza, R. | Distribution Uniformity in Intensive Horticultural Systems of Almería and Influence of the Production System and Water Quality | https://doi.org/10.3390/w13020233 | Water |
| Zapata Sierra, A. J. Roldán Cañas, J.; Reyes Requena, R.; Moreno Pérez, M.F. | Study of the wet bulb in stratified solis (sand-covered soil) in intensive greenhouse agriculture under drip irrigation by calibrating Hydrus-3D model. | https://doi.org/10.3390/w13050600 | Water |
| Roldán Cañas, J.; Moreno Pérez, M.F. | Water and Irrigation Management in Arid and Semiarid Zones. | https://doi.org/10.3390/w13172446 | Water |

Publicaciones año 2021

| AUTHORS | TITLE | DOI | SOURCE TITLE |
|---|--|---|--|
| Zapata-Sierra, A.J., Moreno-Pérez, M.F., Reyes-Requena, R., Manzano-Agugliaro, F. | Root distribution with the use of drip irrigation on layered soils at greenhouses crops | https://doi.org/10.1016/j.scitotenv.2021.144944 | Science of the Total Environment |
| Pérez-Padillo, JM., García Morill, J., Camacho Poyato, E., Montesinos, P. | Open -Source Application for Water Supply Systems Management: Implementation in a Water Transmission System in Southern Spain | https://doi.org/10.3390/w13243652 | Water |
| Ramos H.M., Morillo, J.G., Rodríguez Díaz, J.A., Caravetta, A., McNabola, A | Sustainable water-energy nexus towards developing countries' water sector efficiency | https://doi.org/10.3390/en14123525 | Energies |
| Mitrovic, D., Morillo, J.G., Rodríguez Díaz, J.A., McNabola, A | Optimization-Based Methodology for Selection of Pump-as-Turbine in Water Distribution Networks: Effects of Different Objectives and Machine Operation Limits on Best Efficiency Point. | http://dx.doi.org/10.1061/(ASCE)WR.1943-5452.0001356 | Journal of Water Resources Planning and Management |
| Chacón, M.C., Rodríguez Díaz, J.A., Morillo, J.G., McNabola, A | Evaluation of the design and performance of a micro hydropower plant in a pressurised irrigation network: Real world application at farm-level in Sothern Spain | http://dx.doi.org/10.1016/j.renene.2021.01.084 | Renewable Energy |
| Mitrovic, D., Chacón, M.C., García, A.M., Morillo, J.G., Rodríguez Díaz, J.A., Ramos, H.M., Adeyeye, K., Caravetta, A., McNabola, A | Multi-country scale assessment of available energy recovery potential using micro-hydropower in drinking, pressurised irrigation, and wastewater networks, covering part of the EU | https://doi.org/10.3390/w13070899 | Water |

Publicaciones año 2021

| AUTHORS | TITLE | DOI | SOURCE TITLE |
|--|---|---|--|
| García, A.M., Rodríguez Díaz, J.A., Morillo, J.G., McNabola, A. 2021 | Energy recovery potential in industrial and municipal wastewater networks using micro-hydropower in Spain. | https://doi.org/10.3390/w13050691 | Water |
| González Perea, R., Camacho Poyato, E., Rodríguez Díaz, J.A. | <u>Forecasting of applied irrigation depths at farm level for energy tariff periods using Coactive neuro-genetic fuzzy system</u> | 10.1016/j.agwat.2021.107068 | Agricultural Water Management 256,107068 |
| Gustafson, D., Asseng, S., Kruse, J., Thoma, G., Guan, K., Hoogenboom, G., Matlock, M., McLean, M., Parajuli, R., Rajagopalan, K., Stöckle, C., Sulser, T.B., Tarar, L., Wiebe, K., Zhao, C., Fraisse, C., Gimenez, C., Intarapapong, P., Karimi, T., Kruger, C., Li, Y., Marshall, E., Nelson, R.L., Pronk, A., Raymundo, R., Riddle, A.A., Rosenbohm, M., Sonke, D., van Evert, F., Wu, G., Xiao, L. | Supply chains for processed potato and tomato products in the United States will have enhanced resilience with planting adaptation strategies | 10.1038/s43016-021-00383-w | NATURE FOOD |
| EL-DESOUKI-ARAFAT, I.; ALEDEBIS-ALBUNNAI, H.K.; VARGAS-OSUNA, E.; TRAPERO, A.; LÓPEZ ESCUDERO, F.J. | Lack of Evidence for Transmission of <i>Verticillium dahliae</i> by the Olive Bark Beetle <i>Phloeotribus scarabaeoides</i> in Olive Trees | https://doi.org/10.3390/pathogens10050534 | Pathogens |
| Pimentel, R.; Arheimer, B. | Hydrological impacts of a wildfire in a Boreal region: The Västmanland fire 2014 (Sweden) | 10.1016/j.scitotenv.2020.143519 | Science of the Total Environment |
| Aguilar, C., Pimentel, R., Polo, M.J. | Two decades of distributed global radiation time series across a mountainous semiarid area (Sierra Nevada, Spain) | 10.5194/essd-13-1335-2021 | Earth System Science Data |
| Su, Z. et al | Monitoring Water and Energy Cycles at Climate Scale in the Third Pole Environment (CLIMATE-TPE). | 10.3390/rs13183661 | Remote Sensing |

