

AUTHORS	TITLE	DOI	SOURCE TITLE
Romera FJ, García MJ, Lucena C, Martínez-Medina A, Aparicio MA, Ramos J, Alcántara E, Angulo M, Pérez-Vicente R	Induced systemic resistance (ISR) and Fe deficiency responses in dicot plants	10.3389/fpls.2019.00287	Frontiers in Plant Science
Lucena C, Porras R, García MJ, Alcántara E, Pérez-Vicente R, Zamarreño AM, Bacaicoa E, García-Mina JM, Smith AP, Romera FJ	Ethylene and phloem signals are implicated in the regulation of responses to Fe and P deficiencies in roots of Strategy I plants	10.3389/fpls.2019.01237	Frontiers in Plant Science
Asseng, S., P. Martre, A. Maiorano, R.P. Rötter, G.J. O'leary, G.J. Fitzgerald, C. Girousse, R. Motzo, F. Giunta, M. Ali Babar, M.P. Reynolds, A.M.S. Kheir, P.J. Thorburn, K. Waha, A.C. Ruane, P.K. Aggarwal, M. Ahmed, J. Balkovič, B. Basso, C. Biernath, M. Bindi, D. Cammarano, A.J. Challinor, G. De Sanctis, B. Dumont, E.E. Rezaei, E. Fereres, R. Ferrise, M. Garcia-Vila, S. Gayler, Y. Gao, H. Horan, G. Hoogenboom, R.C. Izaurralde, M. Jabloun, C.D. Jones, B.T. Kassie, K.C. Kersebaum, C. Klein, A.K. Koehler, B. Liu, S. Minoli, M. Montesino-San Martin, C. Müller, S.N. Kumar, C. Nendel, J.E. Olesen, T. Palosuo, J.R. Porter, E. Priesack, D. Ripoché, M.A. Semenov, C. Stöckle, P. Stratonovitch, T. Streck, I. Supit, F. Tao, M. Van Der Velde, D. Wallach, E. Wang, H. Webber, J. Wolf, L. Xiao, Z. Zhang, Z. Zhao, Y. Zhu, F. Ewert, p.	Climate change impact and adaptation for wheat protein	https://doi.org/10.1111/gcb.14481	Global Change Biology
García-Vila, M., R. Morillo-Valverde, E. Fereres	Modeling Sugar Beet Responses to Irrigation with AquaCrop for Optimizing Water Allocation	https://doi.org/10.3390/w11091918	Water
Gonzalez-Dugo, V., M. Lopez-Lopez, M. Espadafor, F. Orgaz, L. Testi, P. Zarco-Tejada, I.J. Lorite, E. Fereres.	Transpiration from canopy temperature: Implications for the assessment of crop yield in almond orchards	https://doi.org/10.1016/j.eja.2019.01.010	European Journal of Agronomy

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Ortiz-Bustos, C.M., López-Bernal, A., Testi, L. and Molinero-Ruiz, L.	Environmental and irrigation conditions can mask the effect of <i>Magnaportheopsis maydis</i> on growth and productivity of maize	https://doi.org/10.1111/ppa.13070	Plant Pathol
Hayas, A., Peña, A., Vanwalleghem, T.	Predicting gully width and widening rates from upstream contribution area and rainfall: A case study in SW Spain	https://doi.org/10.1016/j.geomorph.2019.05.017	Geomorphology
Porcaro, M.; Ruiz de Adana, M.; Comino, F.; Peña, A.; Martín-Consuegra, E.; Vanwalleghem, T.	Long term experimental analysis of thermal performance of extensive green roofs with different substrates in Mediterranean climate	https://doi.org/10.1016/j.enbuild.2019.05.041	Energy and Buildings
Román-Sánchez, A., Reimann, T., Wallinga, J., Vanwalleghem, T.	Bioturbation and erosion rates along the soil-hillslope conveyor belt, part 1: insights from single-grain feldspar luminescence	https://doi.org/10.1002/esp.4628	Earth Surface Processes and Landforms.
Román-Sánchez, A., Laguna, A., Reimann, T., Giráldez, J.V., Peña, A., Vanwalleghem, T.	Bioturbation and erosion rates along the soil-hillslope conveyor belt, part 2: quantification using an analytical solution of the diffusion-advection equation	https://doi.org/10.1002/esp.4626	Earth Surface Processes and Landforms.
Román-Sánchez, A., Willgoose, G., Giráldez, J.V., Peña, A., Vanwalleghem, T.	The effect of fragmentation on the distribution of hillslope rock size and abundance: insights from contrasting field and model data	https://doi.org/10.1016/j.geoderma.2019.06.016	Geomorphology
Dey, S., Galla, R.K., Castro-Orgaz, O., Ali, S.Z.	Turbulent length scales and anisotropy in submerged turbulent plane offset jets	10.1061/(ASCE)HY.1943-7900.0001559	Journal of Hydraulic Engineering 145(2), 04018085.
Cantero-Chinchilla, F., Castro-Orgaz, O., Dey, S.	Prediction of overtopping dike failure: Sediment transport and dynamic granular bed deformation model	10.1061/(ASCE)HY.1943-7900.0001608	Journal of Hydraulic Engineering 145(6), 04019021.

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Cantero-Chinchilla, F.N., Castro-Orgaz, O., Khan, A.A.	Vertically-averaged and moment equations for flow and sediment transport.	10.1016/j.advwatres.2019.103387	Advances in Water Resources 132, 103387.
Hager, W.H., Castro-Orgaz, O., Hutter, K.	Correspondence between de Saint-Venant and Boussinesq 1: Birth of Shallow Water Equations.	10.1016/j.crme.2019.08.004	Comptes Rendus Mécanique 347(9), 632-662
Guzmán, G., Perea-Moreno, A.J., Gómez, J.A., Cabrerizo-Morales, M.A., Martínez, G., Giráldez, J.V.	Water related properties to assess soil quality in two olive orchards of south Spain under different management strategies	https://doi.org/10.3390/w11020367	Water
FJ López-Bellido, Sánchez Rivas, RJ López-Bellido, L. López-Bellido	Wheat grain selenium content as affected by year and tillage system in a rainfed Mediterranean Vertisol	https://doi.org/10.1016/j.fcr.2019.01.006	Field Crops Research
Moral, J., Morgan, D., Trapero, A. and Michailides, T.J.	Ecology and epidemiology of diseases of nut crops and olives caused by Botryosphaeriaceae fungi in California and Spain	https://doi.org/10.1094/PDIS-03-19-0622-FE	Plant disease
Ortega-Beltran, A., Moral, J., Picot, A., Puckett, R.D., Cotty, P.J. and Michailides T.J.	Atoxicogenic <i>Aspergillus flavus</i> isolates endemic to almond, fig, and pistachio orchards in California with potential to reduce aflatoxin contamination in these crops.	https://doi.org/10.1094/PDIS-08-18-1333-RE	Plant disease
Lichtemberg, P.S.F., Moral, J., Sherman, J., Nouri, M.T., Lake, J., Felts, D.G. and Michailides, T.J.	Characterizing <i>Beltrania pseudorhombica</i> the causal agent of pistachio leaf and fruit spot in Arizona	https://doi.org/10.1007/s10658-019-01675-5	European Journal of Plant Pathology
Agustí-Brisach, C., Moral, J., Felts, D., Trapero, A. and Michailides T.J.	<i>Diaporthe rushicola</i> and <i>Neofusicoccum mediterraneum</i> causing branch dieback and fruit blight of English walnut in California, and effect of pruning wounds to the infection.	https://doi.org/10.1094/PDIS-07-18-1118-RE	Plant disease

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Romero, J., Agustí-Brisacha, C., Roca, L.F., Moral, J., Gonzalez-Dominguez, E., Rossic, V. and Trapero, A.	Long-term study about the effect of agroclimatic variables on olive anthracnose	https://doi.org/10.1016/j.cropro.2018.08.006	Crop protection
Moral, J., Morgan, D. and Michailides, T.J.	Management of Botryosphaeria canker and blight diseases of temperate zone nut crop.	https://doi.org/10.1016/j.cropro.2019.104927	Crop protection
Roessler, K., Muyle, A., Diez, C.M., Gaut, G.R., Bousios, A., Stitzer, M.C., Seymour, D.K., Doebley, J.F., Liu, Q. and Gaut, B.S.,	The genome-wide dynamics of purging during selfing in maize	https://doi.org/10.1038/s41477-019-0508-7	Nature plants
Serrano, M.S., Osmundson, T., Almaraz-Sánchez, A., Croucher, P.J.P., Swiecki, T., Alvarado-Rosales, D. and Garbelotto M.	A microsatellite analysis used to identify global pathways of movement of <i>Phytophthora cinnamomi</i> and the likely sources of wildland infestations in California and Mexico	10.1094/PHYTO-03-19-0102-R	Phytopathology
Romero, M.A., González, M., Serrano, M.S. and Sánchez, M.E.	Trunk injection of fosetyl-aluminium controls the root disease caused by <i>Phytophthora cinnamomi</i> on <i>Quercus ilex</i> woodlands.	DOI: 10.1111/aab.12503	Annals of Applied Biology
Katarzyna Golan, Izabela Kot, Edyta Górńska-Drabik, Inmaculada Garrido Jurado, Katarzyna Kmiec, Bożena Łagowska	Physiological Response of Basil Plants to Twospotted Spider Mite (Acari: Tetranychidae) Infestation	https://doi.org/10.1093/jee/toy399	Journal of Economic Entomology
González-Mas, N., Quesada-Moraga, E., Plaza, M, Ferreres, A., Moreno, A.	Changes in feeding behaviour are not related to the reduction in the transmission rate of plant viruses by <i>Aphis gossypii</i> (Homoptera: Aphididae) to melon plants colonized by <i>Beauveria bassiana</i> (Ascomycota: Hypocreales).	https://doi.org/10.1016/j.biocontrol.2018.11.001	Biological Control

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González-Mas, N., Ortega-García, L., Garrido-Jurado, I., Dembilio, O., Jaques, J.A. Quesada-Moraga, E.	Which came first: The disease or the pest? Is there a host mediated spread of <i>T Beauveria bassiana</i> (Ascomycota: Hypocreales) by invasive palm pests?	https://doi.org/10.1016/j.jip.2019.01.007	Journal of Invertebrate Pathology
Valverde-García, P., Santiago-Álvarez, P., Thomas, M.B., Maranhao, E.A.A., Garrido-Jurado, I., Quesada-Moraga, E.	Sublethal effects of mixed fungal infections on the Moroccan locust, <i>Dociostaurus maroccanus</i> .	https://doi.org/10.1016/j.jip.2018.12.009	Journal of Invertebrate Pathology
González-Mas, N.; Cuenca-Medina, M.; Gutiérrez-Sánchez, F.; Quesada-Moraga, E.	Bottom-up effects of endophytic <i>Beauveria bassiana</i> on multitrophic interactions between the cotton aphid, <i>Aphis gossypii</i> , and its natural enemies in melon	https://doi.org/10.1007/s10340-019-01098-5	Pest Management Science
Hadjtaieb, K., Gharsallah, H., Ksentini, I., Schuster, C., Fernández-Bravo, M., Garrido-Jurado, I., Quesada-Moraga, E., Leclerque, A., Mohamed, A.T., Ksantini, M.	Phytopathogenic and antagonistic potentialities of fungi associated with pistachio bark beetle, <i>Chaetoptelius vestitus</i> (Coleoptera, Curculionidae), infesting pistachio (<i>Pistacia vera</i>) in Tunisia	10.1111/jam.14272	Journal of Applied Microbiology
Natalia González-Mas, Araceli Sánchez-Ortiz, Pablo, Valverde-García, Enrique Quesada-Moraga	Effects of endophytic entomopathogenic ascomycetes on the life-history traits of <i>Aphis gossypii</i> Glover and its interactions with melon plants	https://doi.org/10.3390/insects10060165	Insects
DMMK Fletcher, R Shaw, AR Sánchez-Rodríguez, KR Daly, A Van Veelen, ...	Quantifying citrate-enhanced phosphate root uptake using microdialysis	10.1007/s11104-019-04376-4	Plant and Soil
N Jordanova, D Jordanova, V Barrón	Wildfire severity: Environmental effects revealed by soil magnetic properties	10.1002/ldr.3411	Land Degradation & Development
N Jordanova, D Jordanova, V Barrón, D Lesigynski, ...	Rock-magnetic and color characteristics of archaeological samples from burnt clay from destructions and ceramics in relation to their firing temperature	10.1007/s12520-019-00782-y	Archaeological and Anthropological Sciences

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RJ Harvey, DR Chadwick, AR Sánchez-Rodríguez, DL Jones	Agroecosystem resilience in response to extreme winter flooding	10.1016/j.agee.2019.04.001	Agriculture, Ecosystems & Environment
N Cowan, P Levy, J Drewer, A Carswell, R Shaw, I Simmons, C Bache, ...	Application of Bayesian statistics to estimate nitrous oxide emission factors of three nitrogen fertilisers on UK grasslands	10.1016/j.envint.2019.04.054	Environment international
I Menéndez, M Campeny, L Quevedo-González, J Mangas, X Llovet, ...	Distribution of REE-bearing minerals in felsic magmatic rocks and paleosols from Gran Canaria, Spain: Intraplate oceanic islands as a new example of potential, non-conventional ...	10.1016/j.gexplo.2019.06.007	Journal of geochemical exploration
A Carswell, R Shaw, J Hunt, AR Sánchez-Rodríguez, K Saunders, ...	Assessing the benefits and wider costs of different N fertilisers for grassland agriculture	10.1080/03650340.2018.1519251	Archives of Agronomy and Soil Science
PC Salazar, RM Navarro-Cerrillo, N Grados, G Cruz, V Barrón, R Villar	Tree size and leaf traits determine the fertility island effect in <i>Prosopis pallida</i> dryland forest in Northern Peru	10.1007/s11104-019-03965-7	Plant and Soil
AR Sánchez-Rodríguez, C Nie, PW Hill, DR Chadwick, DL Jones	Extreme flood events at higher temperatures exacerbate the loss of soil functionality and trace gas emissions in grassland	10.1016/j.soilbio.2018.12.021	Soil Biology and Biochemistry
J Bavaresco, MT MORAES, AR SÁNCHEZ-RODRÍGUEZ, I ANGHINONI	Chromium from hydrolyzed leather affects soybean growth and nodulation	10.1016/S1002-0160(17)60360-6	Pedosphere
AR Sánchez-Rodríguez, PW Hill, DR Chadwick, DL Jones	Typology of extreme flood event leads to differential impacts on soil functioning	10.1016/j.soilbio.2018.11.019	Soil Biology and Biochemistry

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D Sacristán, A González-Guzmán, V Barrón, J Torrent, MC Del Campillo	Phosphorus-induced zinc deficiency in wheat pot-grown on noncalcareous and calcareous soils of different properties	10.1080/03650340.2018.1492714	Archives of Agronomy and Soil Science
RS Barbosa, JM Júnior, V Barrón, MV Martins Filho, DS Siqueira, ...	Prediction and mapping of erodibility factors (USLE and WEPP) by magnetic susceptibility in basalt-derived soils in northeastern São Paulo state, Brazil	10.1007/s12665-018-8015-0	Environmental earth sciences
Fernández-Escobar, R.	Olive nutritional status and tolerance to biotic and abiotic stresses(a review).	https://doi.org/10.3389/fpls.2019.01151	Frontiers in Plant Science
Benlloch-González, M., Sánchez-Lucas, R., Aymen Bejaoui, M., Benlloch, M., and Fernández-Escobar, R.	Global warming effects on yield and fruit maturation of olive trees growing under field conditions.	https://doi.org/10.1016/j.scienta.2019.01.046	Scientia Horticulturae
Nascimento-Silva, K., Roca-Castillo, L., Benlloch-González, M., and Fernández-Escobar, R.	Silicon reduces the incidence of Venturia oleaginea (Castagne) Rossman & Crous in potted olive plants	https://doi.org/10.21273/HORTSCI14293-19	HortScience
Torres, I., Sánchez, M.T., Benlloch-González, M., Pérez-Marín, D.	Irrigation decision support based on leaf relative water content determination in olive grove using near infrared spectroscopy.	https://doi.org/10.1016/j.biosystemseng.2019.01.016	Biosystems Engineering
Agustí-Brisach, C., López-Moral, A., Raya, M.C., Franco, R., Roca, L.F., Trapero, A.	Occurrence of grapevine trunk diseases affecting the native cultivar Pedro Ximénez in southern Spain	10.1007/s10658-018-1585-6	European Journal of Plant Pathology
Llorens, E., Mateu, M., González-Hernández, A.I., Agustí-Brisach, C., García-Agustín, P., Lapeña, L., Vicedo, B. .	Extract of Mimosa tenuiflora and Quercus robur as potential eco-friendly management tool against Sclerotinia sclerotiorum in Lactuca sativa enhancing the natural plant defences	10.1016/j.cropro.2019.03.005	European Journal of Plant Pathology
Ollero-Lara, O.*, Agustí Brisach, C.*, Lovera, M., Roca, L.F., Arquero, O., Trapero, A.	Field susceptibility of almond cultivars to the four most common aerial fungal diseases in southern Spain.	https://doi.org/10.1016/j.cropro.2019.03.005	Crop Protection

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N'Guyen, G., Raulo, R. Agustí-Brisach. C., Iacomí, B. <i>et al.</i>	Responses to hydric stress in the seed-borne necrotrophic fungus <i>Alternaria brassicicola</i>	https://doi.org/10.3389/fmicb.2019.01969	Frontiers in Microbiology
López Moral, A., Agustí-Brisach, C., Lovera, M., Luque, Roca, L.F., Arquero, O., Trapero, A.	Effects of cultivar susceptibility, fruit maturity, leaf age, fungal isolate and temperature on infection of almond by <i>Colletotrichum</i> spp.	10.1094/PDIS-12-18-2281-RE.	Plant Disease
Mulero-Aparicio, A., Agustí-Brisach, C., Raya, M.C., Lovera, M., Arquero, O., Trapero, A.	First report of <i>Fusarium solani</i> causing stem canker in English walnut in Spain.	10.1094/PDIS-06-19-1163-PDN	Plant Disease
Mulero-Aparicio, A., Cernava, T., Turrà, D., Schaefer, A., Di Pietro, A., López-Escudero, F.J., Trapero, A., Berg, G.	The role of volatile organic compounds and rhizosphere competence in mode of action of the non-pathogenic <i>Fusarium oxysporum</i> FO12 towards <i>Verticillium</i> wilt.	10.3389/fmicb.2019.01808	Frontiers in Microbiology
González M, Pérez-Sierra A, Sánchez ME 68: 901-907	<i>Phytophthora oleae</i> , a new root pathogen of wild olives	https://doi.org/10.1111/ppa.13024	Plant Pathology
Crespo Chacón, M., Rodríguez Díaz, J. A., García Morillo, J., & McNabola, A.	Pump-as-turbine selection methodology for energy recovery in irrigation networks: Minimising the payback period	10.3390/w11010149	<i>Water</i>
González Perea, R., Camacho Poyato, E., Montesinos, P., & Rodríguez Díaz, J. A.	Optimisation of water demand forecasting by artificial intelligence with short data sets	10.1016/j.biosystemseng.2018.03.011	<i>Biosystems Engineering</i>
González Perea, R., Camacho Poyato, E., Montesinos, P., & Rodríguez Díaz, J. A.	Prediction of irrigation event occurrence at farm level using optimal decision trees.	10.1016/j.compag.2018.12.043	Computers and Electronics in Agriculture
Mérida García, A., Gallagher, J., McNabola, A., Camacho Poyato, E., Montesinos Barrios, P., & Rodríguez Díaz, J. A	Comparing the environmental and economic impacts of on- or off-grid solar photovoltaics with traditional energy sources for rural irrigation systems.	10.1016/j.renene.2019.03.122	Renewable Energy
González Perea, R., García, A. M., García, I. F., Camacho Poyato, E., Montesinos, P., & Rodríguez Díaz, J. A	Middleware to operate smart photovoltaic irrigation systems in real time.	10.3390/w11071508	Water

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Zaragoza, C. A., García, I. F., González Perea, R., Camacho Poyato, E. , & Rodríguez Díaz, J. A	REUTIVAR: Model for precision fertigation scheduling for olive orchards using reclaimed wáter	10.3390/w11122632	Water
Rivas-Sánchez, Y.A.; Moreno-Pérez, M.F.; Roldán-Cañas, J.	Environment control with low-cost microcontrollers and microprocessors:application for green walls	10.3390/su11030782	Sustainability
Rivas-Sánchez, Y.A.; Moreno-Pérez, M.F.; Roldán-Cañas, J.	Mejora en la retención y distribución de agua en muros verdes usando materiales alternativos como medio de crecimiento	https://Doi.org/10.4995/la.2019.9736	Ingeniería del Agua
Medrano-García, P.; Chipana-Rivera, R; Moreno-Pérez, M.F.; Roldán-Cañas, J.	Riego capilar por mecha en el cultivo de lechuga (<i>Lactuca sativa</i> L.) en sistema combinado de solución hidropónica y suelo, como alternativa en la agricultura urbana de Bolivia	https://doi.org/10.4995/la.2019.10602	Ingeniería del Agua
Gimenez, C.; Thompson, R. B.; Prieto, M. H.; Suarez-Rey, E.; Padilla, F. M.; Gallardo, M.	Adaptation of the VegSyst model to outdoor conditions for leafy vegetables and processing tomato	10.1016/j.agsy.2019.01.003	AGRICULTURAL SYSTEMS
Suarez-Rey, E. M.; Gallardo, M.; Romero-Gamez, M.; Gimenez, C.; Rueda, F.J.	Sensitivity and uncertainty analysis in agro-hydrological modelling of drip fertigated lettuce crops under Mediterranean conditions.	10.1016/j.compag.2019.05.011	COMPUTERS AND ELECTRONICS IN AGRICULTURE
FRAYSSINET, M.; AUDIOT, P., CUSUMANO, A.; PICHON, MALM, L.E.; JOUAN, V.; VABRE, M.; MALAVIEILLE, S.; DELALANDE, M. , VARGAS-OSUNA, E.; BOURGUET, D.; VOLKOFF, A.N.	Western European populations of the ichneumonid wasp <i>Hyposoter didymator</i> belong to a single taxon.	https://doi.org/10.3389/fevo.2019.00020	Frontiers in Ecology & Evolution
Salamanca, A.J.A., Navarro-Cerrillo, R.M., Bonet-García, F.J., Pérez-Palazón, M.J., Polo, M.J	Integration of a Landsat time-series of NBR and hydrological modeling to assess Pinus pinaster Aiton. forest defoliation in south-eastern Spain	10.3390/rs11192291	Remote Sensing

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Blöschl, G., et al	Twenty-three unsolved problems in hydrology (UPH)—a community perspective.	10.1080/02626667.2019.1620507	Hydrological Sciences Journal
Polo, M.J., Herrero, J., Pimentel, R., Pérez-Palazón, M.J	The Guadalfeo Monitoring Network (Sierra Nevada, Spain): 14 years of measurements to understand the complexity of snow dynamics in semiarid regions	10.5194/essd-11-393-2019	Earth System Science Data
Iliopoulou, T., Aguilar, C., Arheimer, B., Bermúdez, M., Bezak, N., Ficchi, A., Koutsoyiannis, D., Parajka, J., Polo, M.J., Thirel, G., Montanari, A	A large sample analysis of European rivers on seasonal river flow correlation and its physical drivers.	10.5194/hess-23-73-2019	Hydrology and Earth System Sciences
Suárez-Muñoz M., Bonet-García F., Hódar J.A., Herrero J., Tanase M., Torres-Muros L.	INSTAR: An Agent-Based Model that integrates existing knowledge to simulate the population dynamics of a forest pest.	10.1016/j.ecolmodel.2019.108764	Ecological Modelling
Algarra J.A., Cariñanos P., Herrero J., Delgado-Capel M., Ramos-Lorente M.M., Díaz de la Guardia C	Tracking Montane Mediterranean grasslands: Analysis of the effects of snow with other related hydro-meteorological variables and land-use change on pollen emissions	10.1016/j.scitotenv.2018.08.311	Science of the Total Environment