Jacques Avelino

List of Publications by Year
in descending order

53 papers	3,352 citations	218677 26 h-index	214800 47 g-index
54 all docs	54 docs citations	54 times ranked	3588 citing authors

#	ARTICLE	IF	CITATIONS
1	Microclimate estimation under different coffee-based agroforestry systems using full-sun weather data and shade tree characteristics. European Journal of Agronomy, 2022, 132, 126396.	4.1	15
2	Improved forecasting of coffee leaf rust by qualitative modeling: Design and expert validation of the ExpeRoya model. Agricultural Systems, 2022, 197, 103352.	6.1	5
3	Assessing the joint effects of landscape, farm features and crop management practices on berry damage in coffee plantations. Agriculture, Ecosystems and Environment, 2022, 330, 107903.	5.3	8
4	FramePests: A Comprehensive Framework for Crop Pests Modeling and Forecasting. IEEE Access, 2021, 9, 115579-115598.	4.2	2
5	Concurrent starch accumulation in stump and high fruit production in coffee (<i>Coffea) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	3.1	2
6	Epidemics and the future of coffee production. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	28
7	Shade tree traits and microclimate modifications: Implications for pathogen management in biodiverse coffee agroforests. Biotropica, 2021, 53, 1356-1367.	1.6	15
8	Transformation of coffee-growing landscapes across Latin America. A review. Agronomy for Sustainable Development, 2021, 41, 62.	5.3	36
9	Synergies and tradeoffs in natural regulation of crop pests and diseases under plant species diversification. Crop Protection, 2021, 146, 105658.	2.1	17
10	Gestion des risques liÃ©s Ã la rouille orangÃ©e du cafÃ©ier (Hemileia vastatrix) en AmÃ©rique centrale : apports de simulations interactives en distanciel. , 2021, 11, .		0
11	Unraveling the Complexity of Coffee Leaf Rust Behavior and Development in Different <i>Coffea arabica</i> Agroecosystems. Phytopathology, 2020, 110, 418-427.	2.2	16
12	Economic constraints as drivers of coffee rust epidemics in Nicaragua. Crop Protection, 2020, 127, 104980.	2.1	14
13	Forecast models of coffee leaf rust symptoms and signs based on identified microclimatic combinations in coffee-based agroforestry systems in Costa Rica. Crop Protection, 2020, 130, 105046.	2.1	21
14	Shade tree Chloroleucon eurycyclum promotes coffee leaf rust by reducing uredospore wash-off by rain. Crop Protection, 2020, 129, 105038.	2.1	27
15	Contribution of shade trees to wind dynamics and pathogen dispersal on the edge of coffee agroforestry systems: A functional traits approach. Crop Protection, 2020, 130, 105071.	2.1	20
16	Discovering weather periods and crop properties favorable for coffee rust incidence from feature selection approaches. Computers and Electronics in Agriculture, 2020, 176, 105640.	7.7	15
17	Coffee agroforestry systems capable of reducing disease-induced yield and economic losses while providing multiple ecosystem services. Crop Protection, 2020, 134, 105149.	2.1	28
18	CHAPTER 9: Coffee Rust Epidemics in Central America: Chronicle of a Resistance Breakdown Following the Great Epidemics of 2012 and 2013. , 2020, , 185-198.		10

#	Article	IF	Citations
19	Interactive effects of altitude, microclimate and shading system on coffee leaf rust. Journal of Plant Interactions, 2019, 14, 407-415.	2.1	22
20	Rule-based expert system for detection of coffee rust warnings in colombian crops. Journal of Intelligent and Fuzzy Systems, 2019, 36, 4765-4775.	1.4	7
21	Local and regional drivers of the African coffee white stem borer (<i>Monochamus leuconotus</i>) in Uganda. Agricultural and Forest Entomology, 2018, 20, 514-522.	1.3	8
22	Crop pests and predators exhibit inconsistent responses to surrounding landscape composition. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7863-E7870.	7.1	401
23	Multiple-Disease System in Coffee: From Crop Loss Assessment to Sustainable Management. Annual Review of Phytopathology, 2018, 56, 611-635.	7.8	48
24	The use of Ecosystem-based Adaptation practices by smallholder farmers in Central America. Agriculture, Ecosystems and Environment, 2017, 246, 279-290.	5.3	47
25	Crop health and its global impacts on the components of food security. Food Security, 2017, 9, 311-327.	5.3	68
26	Effects of shade, altitude and management on multiple ecosystem services in coffee agroecosystems. European Journal of Agronomy, 2017, 82, 308-319.	4.1	98
27	Effects of microclimatic variables on the symptoms and signs onset of Moniliophthora roreri, causal agent of Moniliophthora pod rot in cacao. PLoS ONE, 2017, 12, e0184638.	2.5	15
28	Primary and Secondary Yield Losses Caused by Pests and Diseases: Assessment and Modeling in Coffee. PLoS ONE, 2017, 12, e0169133.	2.5	116
29	Towards a Collaborative Research: A Case Study on Linking Science to Farmersâ€™ Perceptions and Knowledge on Arabica Coffee Pests and Diseases and Its Management. PLoS ONE, 2016, 11, e0159392.	2.5	32
30	Shade Effects on the Dispersal of Airborne <i>Hemileia vastatrix</i> Uredospores. Phytopathology, 2016, 106, 572-580.	2.2	47
31	Bird functional diversity supports pest control services in a Costa Rican coffee farm. Agriculture, Ecosystems and Environment, 2016, 235, 277-288.	5.3	35
32	Delicate balance between pest and disease injuries, yield performance, and other ecosystem services in the complex coffee-based systems of Costa Rica. Agriculture, Ecosystems and Environment, 2016, 222, 1-12.	5.3	46
33	Tropical Crop Pests and Diseases in a Climate Change Settingâ€”A Few Examples. , 2016, , 73-82.		8
34	Ecosystem-based adaptation for smallholder farmers: Definitions, opportunities and constraints. Agriculture, Ecosystems and Environment, 2015, 211, 126-132.	5.3	142
35	The coffee rust crises in Colombia and Central America (2008â€“2013): impacts, plausible causes and proposed solutions. Food Security, 2015, 7, 303-321.	5.3	388
36	Shade Tree Spatial Structure and Pod Production Explain Frosty Pod Rot Intensity in Cacao Agroforests, Costa Rica. Phytopathology, 2014, 104, 275-281.	2.2	28

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37	Leaf area index as an indicator of ecosystem services and management practices: An application for coffee agroforestry. Agriculture, Ecosystems and Environment, 2014, 192, 19-37.	5.3	73
38	Diversity and spatial clustering of shade trees affect cacao yield and pathogen pressure in Costa Rican agroforests. Basic and Applied Ecology, 2013, 14, 329-336.	2.7	41
39	Vegetation structure and productivity in cocoa-based agroforestry systems in Talamanca, Costa Rica. Agriculture, Ecosystems and Environment, 2012, 149, 181-188.	5.3	88
40	Landscape context and scale differentially impact coffee leaf rust, coffee berry borer, and coffee rootâ€knot nematodes. Ecological Applications, 2012, 22, 584-596.	3.8	102
41	Shade is conducive to coffee rust as compared to full sun exposure under standardized fruit load conditions. Crop Protection, 2012, 38, 21-29.	2.1	111
42	Plant species diversity for sustainable management of crop pests and diseases in agroecosystems: a review. Agronomy for Sustainable Development, 2012, 32, 273-303.	5.3	470
43	Effects of shade trees on Coffea Arabica pests and diseases. Cahiers Agricultures, 2012, 21, 89-97.	0.9	11
44	Relationships between agro-ecological factors and population densities of Meloidogyne exigua and Pratylenchus coffeae sensu lato in coffee roots, in Costa Rica. Applied Soil Ecology, 2009, 43, 95-105.	4.3	10
45	Topography and Crop Management Are Key Factors for the Development of American Leaf Spot Epidemics on Coffee in Costa Rica. Phytopathology, 2007, 97, 1532-1542.	2.2	46
46	The intensity of a coffee rust epidemic is dependent on production situations. Ecological Modelling, 2006, 197, 431-447.	2.5	120
47	Effects of slope exposure, altitude and yield on coffee quality in two altitudeterroirs of Costa Rica, Orosi and Santa MarÃa de Dota. Journal of the Science of Food and Agriculture, 2005, 85, 1869-1876.	3.5	155
48	Effects of crop management patterns on coffee rust epidemics. Plant Pathology, 2004, 53, 541-547.	2.4	100
49	Quality of Different Honduran Coffees in Relation to Several Environments. Journal of Food Science, 2003, 68, 2356-2361.	3.1	118
50	Effects of phosphite on phytoalexin accumulation in leaves of cowpea infected with Phytophthora cryptogea. Physiological and Molecular Plant Pathology, 1988, 32, 425-435.	2.5	42
51	Hojarasca e inÃ³culo de Mycena citricolor sobre la epidemia de ojo de gallo. Agronomy Mesoamerican, 0, , 77-94.	0.2	8
52	AdaptaciÃ³n basada en ecosistemas: efecto de los Ã¡rboles de sombra sobre servicios ecosistÃ©micos en cafetales. Agronomy Mesoamerican, 0, , 499-516.	0.2	8
53	No evidence of foliar disease impact on crop root functional strategies and soil microbial communities: what does this mean for organic coffee?. Oikos, 0, , .	2.7	2