Luis Vicente Lopez-Llorca

List of Publications by Year
in descending order

74 papers	3,755 citations	126708 33 h-index	133063 59 g-index
81 all docs	81 docs citations	81 times ranked	3069 citing authors

#	Article	IF	Citations
1	Bactericidal and antifungal activities of a low molecular weight chitosan and its N-/2(3)-(dodec-2-enyl)succinoyl/-derivatives. Carbohydrate Polymers, 2006, 64, 66-72.	5.1	295
2	Membrane fluidity determines sensitivity of filamentous fungi to chitosan. Molecular Microbiology, 2010, 75, 1021-1032.	1.2	197
3	Colonization of plant roots by eggâ€parasitic and nematodeâ€trapping fungi. New Phytologist, 2002, 154, 491-499.	3.5	184
4	Purification and Characterization of Chitinases from the Nematophagous Fungi Verticillium chlamydosporium and V. suchlasporium. Fungal Genetics and Biology, 2002, 35, 67-78.	0.9	168
5	Molecular Mechanisms of Chitosan Interactions with Fungi and Plants. International Journal of Molecular Sciences, 2019, 20, 332.	1.8	157
6	Effect of chitosan on hyphal growth and spore germination of plant pathogenic and biocontrol fungi. Journal of Applied Microbiology, 2007, 104, 071010063119021-???.	1.4	137
7	Fungal root endophytes from natural vegetation in Mediterranean environments with special reference to Fusarium spp. FEMS Microbiology Ecology, 2008, 64, 90-105.	1.3	132
8	Chitosan permeabilizes the plasma membrane and kills cells of Neurospora crassa in an energy dependent manner. Fungal Genetics and Biology, 2009, 46, 585-594.	0.9	129
9	Colonisation of barley roots by endophytic Fusarium equiseti and Pochonia chlamydosporia: Effects on plant growth and disease. Annals of Applied Biology, 2009, 155, 391-401.	1.3	117
10	Realâ€time PCR quantification and liveâ€cell imaging of endophytic colonization of barley (Hordeum) Tj ETQq0 0 0 rgBT /Overlock 10 2009, 182, 213-228.	3.5	112
11	Proteomic analysis of date palm (Phoenix dactylifera L.) responses to endophytic colonization by entomopathogenic fungi. Electrophoresis, 2009, 30, 2996-3005.	1.3	106
12	Sequencing and functional analysis of the genome of a nematode egg-parasitic fungus, Pochonia chlamydosporia. Fungal Genetics and Biology, 2014, 65, 69-80.	0.9	105
13	Effects on plant growth and root-knot nematode infection of an endophytic GFP transformant of the nematophagous fungus Pochonia chlamydosporia. Symbiosis, 2012, 57, 33-42.	1.2	86
14	Pre-penetration events in fungal parasitism of nematode eggs. Mycological Research, 2002, 106, 499-506.	2.5	82
15	Endophytic colonization of barley (Hordeum vulgare) roots by the nematophagous fungus Pochonia chlamydosporia reveals plant growth promotion and a general defense and stress transcriptomic response. Journal of Plant Research, 2015, 128, 665-678.	1.2	73
16	Colonisation of seminal roots of wheat and barley by egg-parasitic nematophagous fungi and their effects on Gaeumannomyces graminis var. tritici and development of root-rot. Soil Biology and Biochemistry, 2005, 37, 1229-1235.	4.2	72
17	Colonization of barley roots by endophytic fungi and their reduction of take-all caused by Gaeumannomyces graminis var. tritici. Canadian Journal of Microbiology, 2008, 54, 600-609.	0.8	67
18	Fungal Assemblages Associated with Roots of Halophytic and Non-halophytic Plant Species Vary Differentially Along a Salinity Gradient. Microbial Ecology, 2012, 64, 668-679.	1.4	65

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19	Chitosan Increases Tomato Root Colonization by Pochonia chlamydosporia and Their Combination Reduces Root-Knot Nematode Damage. Frontiers in Plant Science, 2017, 8, 1415.	1.7	64
20	Immunocytochemical localization of a 32-kDa protease from the nematophagous fungusVerticillium suchlasporium in infected nematode eggs. Experimental Mycology, 1992, 16, 261-267.	1.8	63
21	Infection of the Red Palm Weevil (Rhynchophorus ferrugineus) by the entomopathogenic fungus Beauveria bassiana: A SEM study. Microscopy Research and Technique, 2010, 73, 714-725.	1.2	62
22	Induction of auxin biosynthesis and WOX5 repression mediate changes in root development in Arabidopsis exposed to chitosan. Scientific Reports, 2017, 7, 16813.	1.6	61
23	Fungal egg-parasites of plant-parasitic nematodes from Spanish soils. Revista Iberoamericana De Micologia, 2002, 19, 104-10.	0.4	61
24	Expression of serine proteases in egg-parasitic nematophagous fungi during barley root colonization. Fungal Genetics and Biology, 2010, 47, 342-351.	0.9	60
25	Arabidopsis thaliana root colonization by the nematophagous fungus Pochonia chlamydosporia is modulated by jasmonate signaling and leads to accelerated flowering and improved yield. New Phytologist, 2017, 213, 351-364.	3.5	57
26	Chitosan enhances parasitism of Meloidogyne javanica eggs by the nematophagous fungus Pochonia chlamydosporia. Fungal Biology, 2016, 120, 572-585.	1.1	51
27	Identification of yeast genes that confer resistance to chitosan oligosaccharide (COS) using chemogenomics. BMC Genomics, 2012, 13, 267.	1.2	50
28	Some isolates of the nematophagous fungus Pochonia chlamydosporia promote root growth and reduce flowering time of tomato. Annals of Applied Biology, 2015, 166, 472-483.	1.3	50
29	Chitosan Induces Plant Hormones and Defenses in Tomato Root Exudates. Frontiers in Plant Science, 2020, 11, 572087.	1.7	50
30	Appressoria of the nematophagous fungus verticillium suchlasporium. Micron and Microscopica Acta, 1990, 21, 125-130.	0.2	42
31	Protein extraction from Phoenix dactylifera L. leaves, a recalcitrant material, for twoâ€dimensional electrophoresis. Electrophoresis, 2008, 29, 448-456.	1.3	41
32	Carbon and nitrogen limitation increase chitosan antifungal activity in Neurospora crassa and fungal human pathogens. Fungal Biology, 2015, 119, 154-169.	1.1	41
33	CAZyme content of Pochonia chlamydosporia reflects that chitin and chitosan modification are involved in nematode parasitism. Environmental Microbiology, 2016, 18, 4200-4215.	1.8	41
34	Volatile Organic Compounds from Entomopathogenic and Nematophagous Fungi, Repel Banana Black Weevil (Cosmopolites sordidus). Insects, 2020, 11, 509.	1.0	35
35	In vitro soil receptivity assays to egg-parasitic nematophagous fungi. Mycological Progress, 2006, 5, 18-23.	0.5	34
36	New media for the estimation of fungal infection in eggs of the cereal cyst nematode, Heterodera avenae Woll. Nematologica, 1986, 32, 486-489.	0.2	32

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37	Comparative analysis of extracellular proteins from Pochonia chlamydosporia grown with chitosan or chitin as main carbon and nitrogen sources. Enzyme and Microbial Technology, 2010, 46, 568-574.	1.6	31
38	Neurospora crassa transcriptomics reveals oxidative stress and plasma membrane homeostasis biology genes as key targets in response to chitosan. Molecular BioSystems, 2016, 12, 391-403.	2.9	30
39	Acoustic Assessment of Beauveria bassiana (Hypocreales: Clavicipitaceae) Effects on Rhynchophorus ferrugineus (Coleoptera: Dryophthoridae) Larval Activity and Mortality. Journal of Economic Entomology, 2015, 108, 444-453.	0.8	29
40	Study of biodegradation of starch-plastic films in soil using scanning electron microscopy. Micron, 1993, 24, 457-463.	1.1	26
41	Gene cloning, molecular modeling, and phylogenetics of serine protease P32 and serine carboxypeptidase SCP1 from nematophagous fungiPochonia rubescensandPochonia chlamydosporia. Canadian Journal of Microbiology, 2012, 58, 815-827.	0.8	25
42	Omics for Investigating Chitosan as an Antifungal and Gene Modulator. Journal of Fungi (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 54	1.5	25
43	New Initiatives for Management of Red Palm Weevil Threats to Historical Arabian Date Palms[*]. Florida Entomologist, 2011, 94, 733-736.	0.2	24
44	Cell wall composition plays a key role on sensitivity of filamentous fungi to chitosan. Journal of Basic Microbiology, 2016, 56, 1059-1070.	1.8	23
45	Endophytic fungi associated with roots of date palm (Phoenix dactylifera) in coastal dunes. Revista Iberoamericana De Micologia, 2017, 34, 116-120.	0.4	23
46	Expression and specificity of a chitin deacetylase from the nematophagous fungus Pochonia chlamydosporia potentially involved in pathogenicity. Scientific Reports, 2018, 8, 2170.	1.6	23
47	Dityrosine, Trityrosine and Tetratyrosine, Potential Cross-Links in Structural Proteins of Plant-Parasitic Nematodes. Nematologica, 1989, 35, 165-179.	0.2	22
48	Identification of Acremonium isolates from grapevines and evaluation of their antagonism towards Plasmopara viticola. Annals of Microbiology, 2015, 65, 2393-2403.	1.1	22
49	Ethanol production from chitosan by the nematophagous fungus Pochonia chlamydosporia and the entomopathogenic fungi Metarhizium anisopliae and Beauveria bassiana. Microbiological Research, 2017, 204, 30-39.	2.5	21
50	Chitosan inhibits septinâ€mediated plant infection by the rice blast fungus Magnaporthe oryzae in a protein kinase C and Nox1 NADPH oxidaseâ€dependent manner. New Phytologist, 2021, 230, 1578-1593.	3.5	21
51	Genome and secretome analysis of Pochonia chlamydosporia provide new insight into egg-parasitic mechanisms. Scientific Reports, 2018, 8, 1123.	1.6	20
52	Ultrastructure of Infection of Cyst Nematode Eggs By the Nematophagous Fungus Verticillium Suchlaspori Um. Nematologica, 1993, 39, 65-74.	0.2	18
53	Growth inhibition of nematophagous and entomopathogenic fungi by leaf litter and soil containing phenols. Mycological Research, 1997, 101, 691-697.	2.5	14
54	Degradation of insect cuticle by Paecilomyces farinosus proteases. Mycological Progress, 2002, 1, 249-256.	0.5	11

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55	Endochitinase activity determination using N-fluorescein-labeled chitin. Journal of Proteomics, 2004, 60, 29-38.	2.4	11
56	Tolerance to chitosan by Trichoderma species is associated with low membrane fluidity. Journal of Basic Microbiology, 2016, 56, 792-800.	1.8	11
57	Strain Degeneration in Pleurotus ostreatus: A Genotype Dependent Oxidative Stress Process Which Triggers Oxidative Stress, Cellular Detoxifying and Cell Wall Reshaping Genes. Journal of Fungi (Basel,) Tj ETQq1 1 0.784314 rgBT /Ov	1.8	
58	Histopathology of infection of the palm Washingtonia filifera with the pink bud rot fungus Penicillium vermoesenii. Mycological Research, 1994, 98, 1195-1199.	2.5	10
59	Micobiota de la filoplana de palmera datilera: descripciÃ³n e interacciones. Revista Iberoamericana De Micologia, 2007, 24, 299-304.	0.4	10
60	Chitosan modulates Pochonia chlamydosporia gene expression during nematode egg parasitism. Environmental Microbiology, 2021, 23, 4980-4997.	1.8	10
61	Putative LysM Effectors Contribute to Fungal Lifestyle. International Journal of Molecular Sciences, 2021, 22, 3147.	1.8	10
62	Assessing fungal root colonization for plant improvement. Plant Signaling and Behavior, 2009, 4, 445-447.	1.2	9
63	Isolates of the Nematophagous Fungus Pochonia chlamydosporia Are Endophytic in Banana Roots and Promote Plant Growth. Agronomy, 2020, 10, 1299.	1.3	9
64	Chitosan increases conidiation in fungal pathogens of invertebrates. Applied Microbiology and Biotechnology, 2010, 87, 2237-2245.	1.7	8
65	Pochonia chlamydosporia: Multitrophic Lifestyles Explained by a Versatile Genome. , 2017, , 197-207.		7
66	Study of biofouling of Polyhydroxyalkanoate (PHA) films in water by scanning electron microscopy. Micron, 1994, 25, 45-51.	1.1	6
67	Multidisciplinary Analysis of Cystoseira sensu lato (SE Spain) Suggest a Complex Colonization of the Mediterranean. Journal of Marine Science and Engineering, 2020, 8, 961.	1.2	6
68	Introduction (Historical and Overview). , 2017, , 3-19.		3
69	Chitosan induces differential transcript usage of chitosanase 3 encoding gene (csn3) in the biocontrol fungus Pochonia chlamydosporia 123. BMC Genomics, 2022, 23, 101.	1.2	3
70	New Insights on the Mode of Action of Fungal Pathogens of Invertebrates for Improving Their Biocontrol Performance. , 2011, , 203-225.		2
71	Detection of Haplosporidium pinnae from Pinna nobilis Faeces. Journal of Marine Science and Engineering, 2022, 10, 276.	1.2	2
72	Metabolomics. , 2017, , 169-181.		0

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73	A PCR based method to detect Russula spp. in soil samples and Limodorum abortivum roots in Mediterranean environments. Forest Systems, 2015, 24, 019.	0.1	0
74	Chitosan Biosynthesis and Degradation: A Way to Modulate Plant Defenses in Endophytic Biocontrol Agents?. Progress in Biological Control, 2020, , 109-125.	0.5	0