

Pierluigi Bonello

List of Publications by Year in descending order

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84
papers

3,274
citations

147801

31
h-index

168389

53
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86
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86
docs citations

86
times ranked

3354
citing authors

#	ARTICLE	IF	CITATIONS
1	Desarmillaria caespitosa, a North American vicariant of <i>D. tabescens</i> . <i>Mycologia</i> , 2021, 113, 776-790.	1.9	4
2	Lignin concentrations in phloem and outer bark are not associated with resistance to mountain pine beetle among high elevation pines. <i>PLoS ONE</i> , 2021, 16, e0250395.	2.5	3
3	Why do entomologists and plant pathologists approach trophic relationships so differently? Identifying biological distinctions to foster synthesis. <i>New Phytologist</i> , 2020, 225, 609-620.	7.3	14
4	Invasive Tree Pests Devastate Ecosystems—A Proposed New Response Framework. <i>Frontiers in Forests and Global Change</i> , 2020, 3, .	2.3	17
5	Resistance of European ash (<i>Fraxinus excelsior</i>) saplings to larval feeding by the emerald ash borer (<i>Agrilus planipennis</i>). <i>Plants People Planet</i> , 2020, 2, 41-46.	3.3	9
6	Machine Learning-Based Presymptomatic Detection of Rice Sheath Blight Using Spectral Profiles. <i>Plant Phenomics</i> , 2020, 2020, 8954085.	5.9	28
7	Comparative transcriptional and metabolic responses of <i>Pinus pinea</i> to a native and a non-native <i>Heterobasidion</i> species. <i>Tree Physiology</i> , 2019, 39, 31-44.	3.1	6
8	Girdling increases survival and growth of emerald ash borer larvae on Manchurian ash. <i>Agricultural and Forest Entomology</i> , 2019, 21, 130-135.	1.3	6
9	Fourier-transform infrared (FT-IR) spectroscopy analysis discriminates asymptomatic and symptomatic Norway spruce trees. <i>Plant Science</i> , 2019, 289, 110247.	3.6	14
10	Genetic variation in the constitutive defensive metabolome and its inducibility are geographically structured and largely determined by demographic processes in maritime pine. <i>Journal of Ecology</i> , 2019, 107, 2464-2477.	4.0	41
11	Disease incidence and spatial distribution of host resistance in a coast live oak/sudden oak death pathosystem. <i>Forest Ecology and Management</i> , 2019, 433, 618-624.	3.2	7
12	Anatomical defences against bark beetles relate to degree of historical exposure between species and are allocated independently of chemical defences within trees. <i>Plant, Cell and Environment</i> , 2019, 42, 633-646.	5.7	27
13	Drought stress increased survival and development of emerald ash borer larvae on coevolved Manchurian ash and implicates phloem-based traits in resistance. <i>Agricultural and Forest Entomology</i> , 2018, 20, 170-179.	1.3	14
14	Advanced spectroscopy-based phenotyping offers a potential solution to the ash dieback epidemic. <i>Scientific Reports</i> , 2018, 8, 17448.	3.3	20
15	Inducibility of Plant Secondary Metabolites in the Stem Predicts Genetic Variation in Resistance Against a Key Insect Herbivore in Maritime Pine. <i>Frontiers in Plant Science</i> , 2018, 9, 1651.	3.6	48
16	Strategic Development of Tree Resistance Against Forest Pathogen and Insect Invasions in Defense-Free Space. <i>Frontiers in Ecology and Evolution</i> , 2018, 6, .	2.2	31
17	Modern approaches for early detection of forest pathogens are sorely needed in the United States. <i>Forest Pathology</i> , 2018, 48, e12445.	1.1	1
18	Identification of biochemical features of defective <i>Coffea arabica</i> L. beans. <i>Food Research International</i> , 2017, 95, 59-67.	6.2	20

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19	A Native Parasitic Plant Systemically Induces Resistance in Jack Pine to a Fungal Symbiont of Invasive Mountain Pine Beetle. <i>Journal of Chemical Ecology</i> , 2017, 43, 506-518.	1.8	7
20	Defence syndromes in lodgepole “whitebark pine ecosystems relate to degree of historical exposure to mountain pine beetles. <i>Plant, Cell and Environment</i> , 2017, 40, 1791-1806.	5.7	61
21	Spatial and temporal components of induced plant responses in the context of herbivore life history and impact on host. <i>Functional Ecology</i> , 2017, 31, 2034-2050.	3.6	23
22	Water-deficit and fungal infection can differentially affect the production of different classes of defense compounds in two host pines of mountain pine beetle. <i>Tree Physiology</i> , 2017, 37, 338-350.	3.1	35
23	Constitutive phenolic biomarkers identify naïve <i>Quercus agrifolia</i> resistant to <i>Phytophthora ramorum</i> , the causal agent of sudden oak death. <i>Tree Physiology</i> , 2017, 37, 1686-1696.	3.1	14
24	Progress and gaps in understanding mechanisms of ash tree resistance to emerald ash borer, a model for wood-boring insects that kill angiosperms. <i>New Phytologist</i> , 2016, 209, 63-79.	7.3	74
25	Effects of defoliation and site quality on growth and defenses of <i>Pinus pinaster</i> and <i>P. radiata</i> . <i>Forest Ecology and Management</i> , 2016, 382, 39-50.	3.2	10
26	Quantification of hydrogen peroxide in plant tissues using Amplex Red. <i>Methods</i> , 2016, 109, 105-113.	3.8	35
27	Higher Activities of Defense-Associated Enzymes may Contribute to Greater Resistance of Manchurian Ash to Emerald Ash Borer Than A closely Related and Susceptible Congener. <i>Journal of Chemical Ecology</i> , 2016, 42, 782-792.	1.8	20
28	Testing the systemic induced resistance hypothesis with Austrian pine and <i>Diplodia sapinea</i> . <i>Physiological and Molecular Plant Pathology</i> , 2016, 94, 118-125.	2.5	14
29	Mechanisms of induced susceptibility to <i>Diplodia</i> tip blight in drought-stressed Austrian pine. <i>Tree Physiology</i> , 2015, 35, 549-562.	3.1	43
30	Comparative Herbivory Rates and Secondary Metabolite Profiles in the Leaves of Native and Non-Native <i>Lonicera</i> Species. <i>Journal of Chemical Ecology</i> , 2015, 41, 1069-1079.	1.8	14
31	Application of Infrared and Raman Spectroscopy for the Identification of Disease Resistant Trees. <i>Frontiers in Plant Science</i> , 2015, 6, 1152.	3.6	32
32	Identification of <i>Quercus agrifolia</i> (coast live oak) resistant to the invasive pathogen <i>Phytophthora ramorum</i> in native stands using Fourier-transform infrared (FT-IR) spectroscopy. <i>Frontiers in Plant Science</i> , 2014, 5, 521.	3.6	23
33	Failure under stress: the effect of the exotic herbivore <i>Adelges tsugae</i> on biomechanics of <i>Tsuga canadensis</i> . <i>Annals of Botany</i> , 2014, 113, 721-730.	2.9	13
34	Effects of water availability on emerald ash borer larval performance and phloem phenolics of Manchurian and black ash. <i>Plant, Cell and Environment</i> , 2014, 37, 1009-1021.	5.7	41
35	Reserves Accumulated in Non-Photosynthetic Organs during the Previous Growing Season Drive Plant Defenses and Growth in Aspen in the Subsequent Growing Season. <i>Journal of Chemical Ecology</i> , 2014, 40, 21-30.	1.8	24
36	Association between resistance to an introduced invasive pathogen and phenolic compounds that may serve as biomarkers in native oaks. <i>Forest Ecology and Management</i> , 2014, 312, 154-160.	3.2	16

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37	Testing phenotypic trade-offs in the chemical defence strategy of Scots pine under growth-limiting field conditions. <i>Tree Physiology</i> , 2014, 34, 919-930.	3.1	41
38	Decreased emergence of emerald ash borer from ash treated with methyl jasmonate is associated with induction of general defense traits and the toxic phenolic compound verbascoside. <i>Oecologia</i> , 2014, 176, 1047-1059.	2.0	35
39	Characterization of wound responses of stems of paper birch (<i>Betula papyrifera</i>) and European white birch (<i>Betula pendula</i>). <i>Trees - Structure and Function</i> , 2013, 27, 851-863.	1.9	4
40	Fungal species assemblages associated with <i>Phytophthora ramorum</i> -infected coast live oaks following bark and ambrosia beetle colonization in northern California. <i>Forest Ecology and Management</i> , 2013, 291, 30-42.	3.2	32
41	Austrian pine phenolics are likely contributors to systemic induced resistance against <i>Diplodia pinea</i> . <i>Tree Physiology</i> , 2013, 33, 845-854.	3.1	38
42	Nutritional and pathogenic fungi associated with the pine engraver beetle trigger comparable defenses in Scots pine. <i>Tree Physiology</i> , 2012, 32, 867-879.	3.1	48
43	Nutritional attributes of ash (<i>Fraxinus</i> spp.) outer bark and phloem and their relationships to resistance against the emerald ash borer. <i>Tree Physiology</i> , 2012, 32, 1522-1532.	3.1	10
44	Interspecific Comparison of Constitutive Ash Phloem Phenolic Chemistry Reveals Compounds Unique to Manchurian Ash, a Species Resistant to Emerald Ash Borer. <i>Journal of Chemical Ecology</i> , 2012, 38, 499-511.	1.8	66
45	Nutrient and water availability alter belowground patterns of biomass allocation, carbon partitioning, and ectomycorrhizal abundance in <i>Betula nigra</i> . <i>Trees - Structure and Function</i> , 2012, 26, 525-533.	1.9	23
46	Transcriptomic Signatures of Ash (<i>Fraxinus</i> spp.) Phloem. <i>PLoS ONE</i> , 2011, 6, e16368.	2.5	54
47	Interspecific Proteomic Comparisons Reveal Ash Phloem Genes Potentially Involved in Constitutive Resistance to the Emerald Ash Borer. <i>PLoS ONE</i> , 2011, 6, e24863.	2.5	34
48	Antioxidant genes of the emerald ash borer (<i>Agrilus planipennis</i>): Gene characterization and expression profiles. <i>Journal of Insect Physiology</i> , 2011, 57, 819-824.	2.0	21
49	Feeding by emerald ash borer larvae induces systemic changes in black ash foliar chemistry. <i>Phytochemistry</i> , 2011, 72, 1990-1998.	2.9	13
50	Differential Response in Foliar Chemistry of Three Ash Species to Emerald Ash Borer Adult Feeding. <i>Journal of Chemical Ecology</i> , 2011, 37, 29-39.	1.8	22
51	Inter- and Intra-Specific Variation in Stem Phloem Phenolics of Paper Birch (<i>Betula papyrifera</i>) and European White Birch (<i>Betula pendula</i>). <i>Journal of Chemical Ecology</i> , 2011, 37, 1193-1202.	1.8	18
52	Distinguishing Defensive Characteristics in the Phloem of Ash Species Resistant and Susceptible to Emerald Ash Borer. <i>Journal of Chemical Ecology</i> , 2011, 37, 450-459.	1.8	62
53	Effect of the Growth Regulator Paclobutrazol and Fertilization on Defensive Chemistry and Herbivore Resistance of Austrian Pine (<i>Pinus nigra</i>) and Paper Birch (<i>Betula papyrifera</i>). <i>Arboriculture and Urban Forestry</i> , 2011, 37, 278-287.	0.6	5
54	Induced resistance to pests and pathogens in trees. <i>New Phytologist</i> , 2010, 185, 893-908.	7.3	256

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55	Tissue-Specific Transcriptomics of the Exotic Invasive Insect Pest Emerald Ash Borer (<i>Agilus</i>) Tj ETQq1 1 0.784314 rgBT/Overlock 10	2.5	87
56	Effects of soil type, fertilization and drought on carbon allocation to root growth and partitioning between secondary metabolism and ectomycorrhizae of <i>Betula papyrifera</i> . <i>Tree Physiology</i> , 2010, 30, 807-817.	3.1	47
57	Association of <i>Phytophthora cinnamomi</i> with White Oak Decline in Southern Ohio. <i>Plant Disease</i> , 2010, 94, 1026-1034.	1.4	26
58	Determination of quercetin concentrations in fish tissues after feeding quercetin-containing diets. <i>Aquaculture International</i> , 2009, 17, 537-544.	2.2	14
59	Phenolic Metabolites in Leaves of the Invasive Shrub, <i>Lonicera maackii</i> , and Their Potential Phytotoxic and Anti-Herbivore Effects. <i>Journal of Chemical Ecology</i> , 2008, 34, 144-152.	1.8	133
60	Effects of Fertilization and Fungal and Insect Attack on Systemic Protein Defenses of Austrian Pine. <i>Journal of Chemical Ecology</i> , 2008, 34, 1392-1400.	1.8	16
61	Systemic induction of phloem secondary metabolism and its relationship to resistance to a canker pathogen in Austrian pine. <i>New Phytologist</i> , 2008, 177, 767-778.	7.3	106
62	Systemic effects of <i>Heterobasidion annosum</i> s.s. infection on severity of <i>Diplodia pinea</i> tip blight and terpenoid metabolism in Italian stone pine (<i>Pinus pinea</i>). <i>Tree Physiology</i> , 2008, 28, 1653-1660.	3.1	28
63	Organ-dependent induction of systemic resistance and systemic susceptibility in <i>Pinus nigra</i> inoculated with <i>Sphaeropsis sapinea</i> and <i>Diplodia scrobiculata</i> . <i>Tree Physiology</i> , 2007, 27, 511-517.	3.1	65
64	<i>Ips pini</i> (Curculionidae: Scolytinae) Is a Vector of the Fungal Pathogen, <i>Sphaeropsis sapinea</i> (Coelomycetes), to Austrian Pines, <i>Pinus nigra</i> (Pinaceae). <i>Environmental Entomology</i> , 2007, 36, 114-120.	1.4	23
65	Spatial and temporal patterns of morel fruiting. <i>Mycological Research</i> , 2007, 111, 339-346.	2.5	18
66	Comparative Phloem Chemistry of Manchurian (<i>Fraxinus mandshurica</i>) and Two North American Ash Species (<i>Fraxinus americana</i> and <i>Fraxinus pennsylvanica</i>). <i>Journal of Chemical Ecology</i> , 2007, 33, 1430-1448.	1.8	110
67	Phenolic Chemistry of Coast Live Oak Response to <i>Phytophthora ramorum</i> Infection. <i>Journal of Chemical Ecology</i> , 2007, 33, 1721-1732.	1.8	36
68	Cross-induction of systemic induced resistance between an insect and a fungal pathogen in Austrian pine over a fertility gradient. <i>Oecologia</i> , 2007, 153, 365-374.	2.0	40
69	Systemic aspects of host-pathogen interactions in Austrian pine (<i>Pinus nigra</i>): A proteomics approach. <i>Physiological and Molecular Plant Pathology</i> , 2006, 68, 149-157.	2.5	27
70	Nature and ecological implications of pathogen-induced systemic resistance in conifers: A novel hypothesis. <i>Physiological and Molecular Plant Pathology</i> , 2006, 68, 95-104.	2.5	132
71	Avenacin Production in Creeping Bentgrass (<i>Agrostis stolonifera</i>) and Its Influence on the Host Range of <i>Gaeumannomyces graminis</i> . <i>Plant Disease</i> , 2006, 90, 33-38.	1.4	5
72	Systemic induction of traumatic resin ducts and resin flow in Austrian pine by wounding and inoculation with <i>Sphaeropsis sapinea</i> and <i>Diplodia scrobiculata</i> . <i>Planta</i> , 2005, 221, 75-84.	3.2	91

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73	Effects of fertilization on red pine defense chemistry and resistance to <i>Sphaeropsis sapinea</i> . <i>Forest Ecology and Management</i> , 2005, 208, 373-382.	3.2	46
74	First Report of <i>Phytophthora insolita</i> and <i>P. inflata</i> on <i>Rhododendron</i> in Ohio. <i>Plant Disease</i> , 2005, 89, 1128-1128.	1.4	16
75	Systemic effects of <i>Heterobasidion annosum</i> on ferulic acid glucoside and lignin of presymptomatic ponderosa pine phloem, and potential effects on bark-beetle-associated fungi. <i>Journal of Chemical Ecology</i> , 2003, 29, 1167-1182.	1.8	61
76	Feeding response of <i>Ips paraconfusus</i> to phloem and phloem metabolites of <i>Heterobasidion annosum</i> -inoculated ponderosa pine, <i>Pinus ponderosa</i> . <i>Journal of Chemical Ecology</i> , 2003, 29, 1183-1202.	1.8	20
77	<i>Pinus nigra</i> as a model pathosystem to investigate local and systemic effects of fungal infection of pines. <i>Physiological and Molecular Plant Pathology</i> , 2003, 63, 249-261.	2.5	142
78	The role of olfactory stimuli in the location of weakened hosts by twig-infesting <i>Pityophthorus</i> spp.. <i>Ecological Entomology</i> , 2001, 26, 8-15.	2.2	28
79	Genetic structure of a natural population of the ectomycorrhizal fungus <i>Suillus pungens</i> . <i>New Phytologist</i> , 1998, 138, 533-542.	7.3	157
80	Genetic Relationships and Cross Pathogenicities of <i>Verticillium dahliae</i> isolates from Cauliflower and Other Crops. <i>Phytopathology</i> , 1995, 85, 1105.	2.2	91
81	Biochemical defence responses in primary roots of Scots pine challenged in vitro with <i>Cylindrocarpon destructans</i> . <i>Plant Pathology</i> , 1993, 42, 203-211.	2.4	23
82	Ozone effects on root disease susceptibility and defence responses in mycorrhizal and non-mycorrhizal seedlings of Scots pine (<i>Pinus sylvestris</i> L.). <i>New Phytologist</i> , 1993, 124, 653-663.	7.3	65
83	An induced papilla response in primary roots of Scots pine challenged in vitro with <i>Cylindrocarpon destructans</i> . <i>Physiological and Molecular Plant Pathology</i> , 1991, 39, 213-228.	2.5	26
84	Mechanisms of Pine Disease Susceptibility Under Experimental Climate Change. <i>Frontiers in Forests and Global Change</i> , 0, 5, .	2.3	3