FrÃ©dÃ©ric Fabre

List of Publications by Year
in descending order

46 papers	2,061 citations	304743 22 h-index	254184 43 g-index
47 all docs	47 docs citations	47 times ranked	2196 citing authors

#	Article	IF	Citations
1	An epiâ€evolutionary model for predicting the adaptation of sporeâ€producing pathogens to quantitative resistance in heterogeneous environments. Evolutionary Applications, 2022, 15, 95-110.	3.1	9
2	Field and Landscape Risk Factors Impacting Flavescence DorÃ©e Infection: Insights from Spatial Bayesian Modeling in the Bordeaux Vineyards. Phytopathology, 2022, 112, 1686-1697.	2.2	4
3	Optimising Reactive Disease Management Using Spatially Explicit Models at the Landscape Scale. Plant Pathology in the 21st Century, 2021, , 47-72.	0.9	19
4	Models of Plant Resistance Deployment. Annual Review of Phytopathology, 2021, 59, 125-152.	7.8	47
5	Promoting crop pest control by plant diversification in agricultural landscapes: A conceptual framework for analysing feedback loops between agro-ecological and socio-economic effects. Advances in Ecological Research, 2021, 65, 133-165.	2.7	11
6	Virus epidemics, plant-controlled population bottlenecks and the durability of plant resistance. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180263.	4.0	16
7	Chapitre 10. AmÃ©nagement de paysages pour la santÃ© des plantes basÃ© sur des modÃ¨les. , 2019, , 171-180.		0
8	Small Bottleneck Size in a Highly Multipartite Virus during a Complete Infection Cycle. Journal of Virology, 2018, 92, .	3.4	26
9	Impact of genetic drift, selection and accumulation level on virus adaptation to its host plants. Molecular Plant Pathology, 2018, 19, 2575-2589.	4.2	11
10	Steady state concentration for a phenotypic structured problem modeling the evolutionary epidemiology of spore producing pathogens. Mathematical Models and Methods in Applied Sciences, 2017, 27, 385-426.	3.3	20
11	Molecular and biological characterization of two potyviruses infecting lettuce in southeastern France. Plant Pathology, 2017, 66, 970-979.	2.4	9
12	The Number of Target Molecules of the Amplification Step Limits Accuracy and Sensitivity in Ultradeep-Sequencing Viral Population Studies. Journal of Virology, 2017, 91, .	3.4	28
13	Mosaics often outperform pyramids: insights from a model comparing strategies for the deployment of plant resistance genes against viruses in agricultural landscapes. New Phytologist, 2017, 216, 239-253.	7.3	49
14	Determinants of host species range in plant viruses. Journal of General Virology, 2017, 98, 862-873.	2.9	56
15	Quantitative trait loci in pepper control the effective population size of two RNA viruses at inoculation. Journal of General Virology, 2017, 98, 1923-1931.	2.9	10
16	Estimating virus effective population size and selection without neutral markers. PLoS Pathogens, 2017, 13, e1006702.	4.7	18
17	Adaptation of a plant pathogen to partial host resistance: selection for greater aggressiveness in grapevine downy mildew. Evolutionary Applications, 2016, 9, 709-725.	3.1	104
18	Temporal niche differentiation of parasites sharing the same plantÂhost: oak powdery mildew as a case study. Ecosphere, 2016, 7, e01517.	2.2	19

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19	Epidemiological and evolutionary management of plant resistance: optimizing the deployment of cultivar mixtures in time and space in agricultural landscapes. Evolutionary Applications, 2015, 8, 919-932.	3.1	51
20	Narrow Bottlenecks Affect Pea Seedborne Mosaic Virus Populations during Vertical Seed Transmission but not during Leaf Colonization. PLoS Pathogens, 2014, 10, e1003833.	4.7	36
21	Interaction Patterns between<i>Potato Virus Y</i>and eIF4E-Mediated Recessive Resistance in the Solanaceae. Journal of Virology, 2014, 88, 9799-9807.	3.4	23
22	High throughput quantitative phenotyping of plant resistance using chlorophyll fluorescence image analysis. Plant Methods, 2013, 9, 17.	4.3	135
23	Modelling the Evolutionary Dynamics of Viruses within Their Hosts: A Case Study Using High-Throughput Sequencing. PLoS Pathogens, 2012, 8, e1002654.	4.7	39
24	Durable strategies to deploy plant resistance in agricultural landscapes. New Phytologist, 2012, 193, 1064-1075.	7.3	109
25	Search for factors involved in the rapid shift in Watermelon mosaic virus (WMV) populations in South-eastern France. Virus Research, 2011, 159, 115-123.	2.2	37
26	Variability of Botrytis cinerea sensitivity to pyrrolnitrin, an antibiotic produced by biological control agents. BioControl, 2011, 56, 353-363.	2.0	24
27	Asymmetrical over-infection as a process of plant virus emergence. Journal of Theoretical Biology, 2010, 265, 377-388.	1.7	17
28	Hierarchical Bayesian Modelling of plant colonisation by winged aphids: Inferring dispersal processes by linking aerial and field count data. Ecological Modelling, 2010, 221, 1770-1778.	2.5	20
29	The conflicting relationships between aphids and men: A review of aphid damage and control strategies. Comptes Rendus - Biologies, 2010, 333, 539-553.	0.2	337
30	Comparative whitefly transmission of <i>Tomato chlorosis virus</i> and <i>Tomato infectious chlorosis virus </i>from single or mixed infections. Plant Pathology, 2009, 58, 221-227.	2.4	21
31	Constraints on evolution of virus avirulence factors predict the durability of corresponding plant resistances. Molecular Plant Pathology, 2009, 10, 599-610.	4.2	54
32	Molecular epidemiology of Zucchini yellow mosaic virus in France: An historical overview. Virus Research, 2009, 141, 190-200.	2.2	32
33	Key determinants of resistance durability to plant viruses: Insights from a model linking within- and between-host dynamics. Virus Research, 2009, 141, 140-149.	2.2	49
34	Molecular, biological and serological variability of <i>Zucchini yellow mosaic virus</i> in Tunisia. Plant Pathology, 2008, 57, 1146-1154.	2.4	13
35	Estimation of the number of virus particles transmitted by an insect vector. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17891-17896.	7.1	142
36	Biological properties and relative fitness of inter-subgroup cucumber mosaic virus RNAâ€…3 recombinants produced in vitro. Journal of General Virology, 2007, 88, 2852-2861.	2.9	16

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37	Financial Benefit of Using Crop Protection Decision Rules Over Systematic Spraying Strategies. Phytopathology, 2007, 97, 1484-1490.	2.2	24
38	Landscape epidemiology of plant diseases. Journal of the Royal Society Interface, 2007, 4, 963-972.	3.4	182
39	Tracing Individual Movements Of Aphids Reveals Preferential Routes Of Population Transfers In Agroecosystems. , 2006, 16, 839-844.		39
40	Barley yellow dwarf disease risk assessment based on Bayesian modelling of aphid population dynamics. Ecological Modelling, 2006, 193, 457-466.	2.5	38
41	Effects of climate and land use on the occurrence of viruliferous aphids and the epidemiology of barley yellow dwarf disease. Agriculture, Ecosystems and Environment, 2005, 106, 49-55.	5.3	44
42	Influence of Adding Borax and Modifying pH on Effectiveness of Food Attractants for Melon Fly (Diptera: Tephritidae). Journal of Economic Entomology, 2004, 97, 1137-1141.	1.8	6
43	Improvement of Barley yellow dwarf virus-PAV detection in single aphids using a fluorescent real time RT-PCR. Journal of Virological Methods, 2003, 110, 51-60.	2.1	45
44	Aphid Abundance on Cereals in Autumn Predicts Yield Losses Caused by Barley yellow dwarf virus. Phytopathology, 2003, 93, 1217-1222.	2.2	50
45	Comparison of the Efficacy of Different Food Attractants and Their Concentration for Melon Fly (Diptera: Tephritidae). Journal of Economic Entomology, 2003, 96, 231-238.	1.8	18
46	The quasi-universality of nestedness in the structure of quantitative plant-parasite interactions. , 0, 1, .		4