Sarah J Gurr

List of Publications by Year
in descending order

37 papers	8,025 citations	172457 29 h-index	330143 37 g-index
42 all docs	42 docs citations	42 times ranked	10337 citing authors

#	Article	IF	Citations
1	Tackling the emerging threat of antifungal resistance to human health. Nature Reviews Microbiology, 2022, 20, 557-571.	28.6	311
2	Conditional promoters to investigate gene function during wheat infection by Zymoseptoria tritici. Fungal Genetics and Biology, 2021, 146, 103487.	2.1	1
3	Asynchronous development of Zymoseptoria tritici infection in wheat. Fungal Genetics and Biology, 2021, 146, 103504.	2.1	22
4	Plant pathogen infection risk tracks global crop yields under climate change. Nature Climate Change, 2021, 11, 710-715.	18.8	177
5	Fungi, fungicide discovery and global food security. Fungal Genetics and Biology, 2020, 144, 103476.	2.1	48
6	Threats Posed by the Fungal Kingdom to Humans, Wildlife, and Agriculture. MBio, 2020, 11, .	4.1	275
7	Geometry and evolution of the ecological niche in plant-associated microbes. Nature Communications, 2020, 11, 2955.	12.8	39
8	Threats to global food security from emerging fungal and oomycete crop pathogens. Nature Food, 2020, 1, 332-342.	14.0	234
9	A lipophilic cation protects crops against fungal pathogens by multiple modes of action. Nature Communications, 2020, 11, 1608.	12.8	31
10	Many unreported crop pests and pathogens are probably already present. Global Change Biology, 2019, 25, 2703-2713.	9.5	38
11	A new mechanistic model of weather-dependent Septoria tritici blotch disease risk. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180266.	4.0	12
12	Rapid loss of virulence during submergence of Z. tritici asexual spores. Fungal Genetics and Biology, 2019, 128, 14-19.	2.1	2
13	Worldwide emergence of resistance to antifungal drugs challenges human health and food security. Science, 2018, 360, 739-742.	12.6	957
14	The Role of the Fungal Cell Wall in the Infection of Plants. Trends in Microbiology, 2017, 25, 957-967.	7.7	146
15	Emerging Fungal Threats to Plants and Animals Challenge Agriculture and Ecosystem Resilience. Microbiology Spectrum, 2017, 5, .	3.0	38
16	Investigating chitin deacetylation and chitosan hydrolysis during vegetative growth in Magnaporthe oryzae. Cellular Microbiology, 2017, 19, e12743.	2.1	27
17	A role for random, humidity-dependent epiphytic growth prior to invasion of wheat by Zymoseptoria tritici. Fungal Genetics and Biology, 2017, 106, 51-60.	2.1	78
18	NOXious gases and the unpredictability of emerging plant pathogens under climate change. BMC Biology, 2017, 15, 36.	3.8	32

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19	The Î²â€1,3â€glucanosyltransferases (Gels) affect the structure of the rice blast fungal cell wall during appressoriumâ€mediated plant infection. Cellular Microbiology, 2017, 19, e12659.	2.1	51
20	Modelling coffee leaf rust risk in Colombia with climate reanalysis data. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150458.	4.0	56
21	Tackling emerging fungal threats to animal health, food security and ecosystem resilience. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20160332.	4.0	103
22	Co-delivery of cell-wall-forming enzymes in the same vesicle for coordinated fungal cell wall formation. Nature Microbiology, 2016, 1, 16149.	13.3	56
23	Validation of Reference Genes for Robust qRT-PCR Gene Expression Analysis in the Rice Blast Fungus Magnaporthe oryzae. PLoS ONE, 2016, 11, e0160637.	2.5	30
24	Chitosan Mediates Germling Adhesion in Magnaporthe oryzae and Is Required for Surface Sensing and Germling Morphogenesis. PLoS Pathogens, 2016, 12, e1005703.	4.7	59
25	Crop-destroying fungal and oomycete pathogens challenge food security. Fungal Genetics and Biology, 2015, 74, 62-64.	2.1	156
26	The impact of Septoria tritici Blotch disease on wheat: An EU perspective. Fungal Genetics and Biology, 2015, 79, 3-7.	2.1	393
27	Economic and physical determinants of the global distributions of crop pests and pathogens. New Phytologist, 2014, 202, 901-910.	7.3	76
28	The global spread of crop pests and pathogens. Global Ecology and Biogeography, 2014, 23, 1398-1407.	5.8	367
29	Robust antiâ€oxidant defences in the rice blast fungus Magnaporthe oryzae confer tolerance to the host oxidative burst. New Phytologist, 2014, 201, 556-573.	7.3	69
30	Crop pests and pathogens move polewards in a warming world. Nature Climate Change, 2013, 3, 985-988.	18.8	679
31	Nitric oxide generated by the rice blast fungus Magnaporthe oryzae drives plant infection. New Phytologist, 2013, 197, 207-222.	7.3	75
32	Emerging fungal threats to animal, plant and ecosystem health. Nature, 2012, 484, 186-194.	27.8	2,478
33	Against the grain: safeguarding rice from rice blast disease. Trends in Biotechnology, 2009, 27, 141-150.	9.3	439
34	Magnaporthe grisea Cutinase2 Mediates Appressorium Differentiation and Host Penetration and Is Required for Full Virulence. Plant Cell, 2007, 19, 2674-2689.	6.6	191
35	Engineering plants with increased disease resistance: what are we going to express?. Trends in Biotechnology, 2005, 23, 275-282.	9.3	156
36	The roles of cellulase enzymes and mechanical force in host penetration by Erysiphe graminis f.sp.hordei. Physiological and Molecular Plant Pathology, 1999, 55, 175-182.	2.5	102

#	Article	IF	Citations
37	Emerging Fungal Threats to Plants and Animals Challenge Agriculture and Ecosystem Resilience. , 0, , 787-809.		6