

# Sarah J Gurr

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

8,025  
citations

172207

29  
h-index

329751

37  
g-index

42  
all docs

42  
docs citations

42  
times ranked

10337  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging fungal threats to animal, plant and ecosystem health. <i>Nature</i> , 2012, 484, 186-194.	13.7	2,478
2	Worldwide emergence of resistance to antifungal drugs challenges human health and food security. <i>Science</i> , 2018, 360, 739-742.	6.0	957
3	Crop pests and pathogens move polewards in a warming world. <i>Nature Climate Change</i> , 2013, 3, 985-988.	8.1	679
4	Against the grain: safeguarding rice from rice blast disease. <i>Trends in Biotechnology</i> , 2009, 27, 141-150.	4.9	439
5	The impact of <i>Septoria tritici</i> Blotch disease on wheat: An EU perspective. <i>Fungal Genetics and Biology</i> , 2015, 79, 3-7.	0.9	393
6	The global spread of crop pests and pathogens. <i>Global Ecology and Biogeography</i> , 2014, 23, 1398-1407.	2.7	367
7	Tackling the emerging threat of antifungal resistance to human health. <i>Nature Reviews Microbiology</i> , 2022, 20, 557-571.	13.6	311
8	Threats Posed by the Fungal Kingdom to Humans, Wildlife, and Agriculture. <i>MBio</i> , 2020, 11, .	1.8	275
9	Threats to global food security from emerging fungal and oomycete crop pathogens. <i>Nature Food</i> , 2020, 1, 332-342.	6.2	234
10	<i>Magnaporthe grisea</i> Cutinase2 Mediates Appressorium Differentiation and Host Penetration and Is Required for Full Virulence. <i>Plant Cell</i> , 2007, 19, 2674-2689.	3.1	191
11	Plant pathogen infection risk tracks global crop yields under climate change. <i>Nature Climate Change</i> , 2021, 11, 710-715.	8.1	177
12	Engineering plants with increased disease resistance: what are we going to express?. <i>Trends in Biotechnology</i> , 2005, 23, 275-282.	4.9	156
13	Crop-destroying fungal and oomycete pathogens challenge food security. <i>Fungal Genetics and Biology</i> , 2015, 74, 62-64.	0.9	156
14	The Role of the Fungal Cell Wall in the Infection of Plants. <i>Trends in Microbiology</i> , 2017, 25, 957-967.	3.5	146
15	Tackling emerging fungal threats to animal health, food security and ecosystem resilience. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20160332.	1.8	103
16	The roles of cellulase enzymes and mechanical force in host penetration by <i>Erysiphe graminis</i> f.sp.hordei. <i>Physiological and Molecular Plant Pathology</i> , 1999, 55, 175-182.	1.3	102
17	A role for random, humidity-dependent epiphytic growth prior to invasion of wheat by <i>Zymoseptoria tritici</i> . <i>Fungal Genetics and Biology</i> , 2017, 106, 51-60.	0.9	78
18	Economic and physical determinants of the global distributions of crop pests and pathogens. <i>New Phytologist</i> , 2014, 202, 901-910.	3.5	76

#	ARTICLE	IF	CITATIONS
19	Nitric oxide generated by the rice blast fungus <i>Magnaporthe oryzae</i> drives plant infection. <i>New Phytologist</i> , 2013, 197, 207-222.	3.5	75
20	Robust anti-oxidant defences in the rice blast fungus <i>Magnaporthe oryzae</i> confer tolerance to the host oxidative burst. <i>New Phytologist</i> , 2014, 201, 556-573.	3.5	69
21	Chitosan Mediates Germling Adhesion in <i>Magnaporthe oryzae</i> and Is Required for Surface Sensing and Germling Morphogenesis. <i>PLoS Pathogens</i> , 2016, 12, e1005703.	2.1	59
22	Modelling coffee leaf rust risk in Colombia with climate reanalysis data. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2016, 371, 20150458.	1.8	56
23	Co-delivery of cell-wall-forming enzymes in the same vesicle for coordinated fungal cell wall formation. <i>Nature Microbiology</i> , 2016, 1, 16149.	5.9	56
24	The $\alpha$ -1,3-glucanotransferases (Gels) affect the structure of the rice blast fungal cell wall during appressorium-mediated plant infection. <i>Cellular Microbiology</i> , 2017, 19, e12659.	1.1	51
25	Fungi, fungicide discovery and global food security. <i>Fungal Genetics and Biology</i> , 2020, 144, 103476.	0.9	48
26	Geometry and evolution of the ecological niche in plant-associated microbes. <i>Nature Communications</i> , 2020, 11, 2955.	5.8	39
27	Emerging Fungal Threats to Plants and Animals Challenge Agriculture and Ecosystem Resilience. <i>Microbiology Spectrum</i> , 2017, 5, .	1.2	38
28	Many unreported crop pests and pathogens are probably already present. <i>Global Change Biology</i> , 2019, 25, 2703-2713.	4.2	38
29	NOXious gases and the unpredictability of emerging plant pathogens under climate change. <i>BMC Biology</i> , 2017, 15, 36.	1.7	32
30	A lipophilic cation protects crops against fungal pathogens by multiple modes of action. <i>Nature Communications</i> , 2020, 11, 1608.	5.8	31
31	Validation of Reference Genes for Robust qRT-PCR Gene Expression Analysis in the Rice Blast Fungus <i>Magnaporthe oryzae</i> . <i>PLoS ONE</i> , 2016, 11, e0160637.	1.1	30
32	Investigating chitin deacetylation and chitosan hydrolysis during vegetative growth in <i>Magnaporthe oryzae</i> . <i>Cellular Microbiology</i> , 2017, 19, e12743.	1.1	27
33	Asynchronous development of <i>Zymoseptoria tritici</i> infection in wheat. <i>Fungal Genetics and Biology</i> , 2021, 146, 103504.	0.9	22
34	A new mechanistic model of weather-dependent <i>Septoria tritici</i> blotch disease risk. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180266.	1.8	12
35	Emerging Fungal Threats to Plants and Animals Challenge Agriculture and Ecosystem Resilience. , 0, , 787-809.		6
36	Rapid loss of virulence during submergence of <i>Z. tritici</i> asexual spores. <i>Fungal Genetics and Biology</i> , 2019, 128, 14-19.	0.9	2

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37	Conditional promoters to investigate gene function during wheat infection by <i>Zymoseptoria tritici</i> . <i>Fungal Genetics and Biology</i> , 2021, 146, 103487.	0.9	1