

Simon J. Williams

List of Publications by Year in descending order

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49
papers

3,073
citations

257450

24
h-index

197818

49
g-index

51
all docs

51
docs citations

51
times ranked

3238
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimized Production of Disulfide-Bonded Fungal Effectors in <i>Escherichia coli</i> Using CyDisCo and FunCyDisCo Coexpression Approaches. <i>Molecular Plant-Microbe Interactions</i> , 2022, 35, 109-118.	2.6	3
2	The stem rust effector protein AvrSr50 escapes Sr50 recognition by a substitution in a single surface-exposed residue. <i>New Phytologist</i> , 2022, 234, 592-606.	7.3	32
3	The molecular basis for the development of adult T-cell leukemia/lymphoma in patients with an IRF4 ^{K59R} mutation. <i>Protein Science</i> , 2022, 31, 787-796.	7.6	5
4	Seeing is believing: Exploiting advances in structural biology to understand and engineer plant immunity. <i>Current Opinion in Plant Biology</i> , 2022, 67, 102210.	7.1	35
5	PR1-mediated defence via C-terminal peptide release is targeted by a fungal pathogen effector. <i>New Phytologist</i> , 2021, 229, 3467-3480.	7.3	48
6	Structural determinants of the IRF4/DNA homodimeric complex. <i>Nucleic Acids Research</i> , 2021, 49, 2255-2265.	14.5	14
7	The crystal structure of SnTox3 from the necrotrophic fungus <i>Parastagonospora nodorum</i> reveals a unique effector fold and provides insight into Snn3 recognition and pro-domain protease processing of fungal effectors. <i>New Phytologist</i> , 2021, 231, 2282-2296.	7.3	24
8	Pro-domain processing of fungal effector proteins from plant pathogens. <i>PLoS Pathogens</i> , 2021, 17, e1010000.	4.7	12
9	Assessing the efficacy of CRISPR/Cas9 genome editing in the wheat pathogen <i>Parastagonospora nodorum</i> . <i>Fungal Biology and Biotechnology</i> , 2020, 7, 4.	5.1	12
10	The Plant 'Resistosome': Structural Insights into Immune Signaling. <i>Cell Host and Microbe</i> , 2019, 26, 193-201.	11.0	76
11	NAD ⁺ cleavage activity by animal and plant TIR domains in cell death pathways. <i>Science</i> , 2019, 365, 793-799.	12.6	357
12	Autoimmunity and effector recognition in <i>Arabidopsis thaliana</i> can be uncoupled by mutations in the RRS1 immune receptor. <i>New Phytologist</i> , 2019, 222, 954-965.	7.3	10
13	Structural and functional insights into the modulation of the activity of a flax cytokinin oxidase by flax rust effector AvrL567. <i>Molecular Plant Pathology</i> , 2019, 20, 211-222.	4.2	15
14	Crystal structure of the <i>Melampsora lini</i> effector AvrP reveals insights into a possible nuclear function and recognition by the flax disease resistance protein P. <i>Molecular Plant Pathology</i> , 2018, 19, 1196-1209.	4.2	24
15	Animal NLRs provide structural insights into plant NLR function. <i>Annals of Botany</i> , 2017, 119, mcw171.	2.9	62
16	Production of small cysteine-rich effector proteins in <i>Escherichia coli</i> for structural and functional studies. <i>Molecular Plant Pathology</i> , 2017, 18, 141-151.	4.2	32
17	Multiple functional self-association interfaces in plant TIR domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2046-E2052.	7.1	103
18	GMP Synthase Is Required for Virulence Factor Production and Infection by <i>Cryptococcus neoformans</i> . <i>Journal of Biological Chemistry</i> , 2017, 292, 3049-3059.	3.4	19

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19	Towards the structure of the TIR-domain signalosome. <i>Current Opinion in Structural Biology</i> , 2017, 43, 122-130.	5.7	64
20	<i>Cryptococcus neoformans</i> ADS lyase is an enzyme essential for virulence whose crystal structure reveals features exploitable in antifungal drug design. <i>Journal of Biological Chemistry</i> , 2017, 292, 11829-11839.	3.4	15
21	Emerging Insights into the Functions of Pathogenesis-Related Protein 1. <i>Trends in Plant Science</i> , 2017, 22, 871-879.	8.8	271
22	Structure and Function of the TIR Domain from the Grape NLR Protein RPV1. <i>Frontiers in Plant Science</i> , 2016, 7, 1850.	3.6	41
23	Multiple Domain Associations within the Arabidopsis Immune Receptor RPP1 Regulate the Activation of Programmed Cell Death. <i>PLoS Pathogens</i> , 2016, 12, e1005769.	4.7	69
24	Wheat <i>PR</i> proteins are targeted by necrotrophic pathogen effector proteins. <i>Plant Journal</i> , 2016, 88, 13-25.	5.7	96
25	Crystal structure of <i>Mycobacterium tuberculosis</i> ketolâ€acid reductoisomerase at 1.0 Å... resolution â€“ a potential target for antiâ€tuberculosis drug discovery. <i>FEBS Journal</i> , 2016, 283, 1184-1196.	4.7	33
26	Disruption of de Novo Adenosine Triphosphate (ATP) Biosynthesis Abolishes Virulence in <i>Cryptococcus neoformans</i> . <i>ACS Infectious Diseases</i> , 2016, 2, 651-663.	3.8	16
27	The CC domain structure from the wheat stem rust resistance protein Sr33 challenges paradigms for dimerization in plant NLR proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 12856-12861.	7.1	105
28	Comparative Analysis of the Flax Immune Receptors L6 and L7 Suggests an Equilibrium-Based Switch Activation Model. <i>Plant Cell</i> , 2016, 28, 146-159.	6.6	110
29	A linker strategy for the production and crystallization of Toll/interleukin-1 receptor/resistance protein domain complexes. <i>Protein Engineering, Design and Selection</i> , 2015, 28, 137-145.	2.1	3
30	Structure and function of Toll/interleukin-1 receptor/resistance protein (TIR) domains. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2015, 20, 250-261.	4.9	123
31	Fusion-protein-assisted protein crystallization. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 861-869.	0.8	23
32	Recombinant production of functional full-length and truncated human TRAM/TICAM-2 adaptor protein involved in Toll-like receptor and interferon signaling. <i>Protein Expression and Purification</i> , 2015, 106, 31-40.	1.3	3
33	The Nuclear Immune Receptor RPS4 Is Required for RRS1SLH1-Dependent Constitutive Defense Activation in <i>Arabidopsis thaliana</i> . <i>PLoS Genetics</i> , 2014, 10, e1004655.	3.5	121
34	Structural Basis for Assembly and Function of a Heterodimeric Plant Immune Receptor. <i>Science</i> , 2014, 344, 299-303.	12.6	300
35	Structural Basis of Interaction of Bipartite Nuclear Localization Signal from <i>Agrobacterium</i> VirD2 with Rice Importin-1. <i>Molecular Plant</i> , 2014, 7, 1061-1064.	8.3	22
36	Purification, crystallization and preliminary X-ray analysis of adenylosuccinate synthetase from the fungal pathogen <i>Cryptococcus neoformans</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 1033-1036.	0.7	2

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37	Crystal Structure of Rice Importin- β and Structural Basis of Its Interaction with Plant-Specific Nuclear Localization Signals. <i>Plant Cell</i> , 2013, 24, 5074-5088.	6.6	60
38	The distribution of different classes of nuclear localization signals (NLSs) in diverse organisms and the utilization of the minor NLS-binding site in plant nuclear import factor importin- β . <i>Plant Signaling and Behavior</i> , 2013, 8, e25976.	2.4	10
39	Crystallization and preliminary X-ray diffraction analyses of the TIR domains of three TIR- β -LRR proteins that are involved in disease resistance in <i>Arabidopsis thaliana</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 1275-1280.	0.7	5
40	Distinctive Conformation of Minor Site-Specific Nuclear Localization Signals Bound to Importin- β . <i>Traffic</i> , 2013, 14, 1144-1154.	2.7	45
41	Structures of the flax-rust effector AvrM reveal insights into the molecular basis of plant-cell entry and effector-triggered immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17594-17599.	7.1	75
42	Crystallization and preliminary X-ray diffraction analysis of the flax cytokinin oxidase LuCKX1.1. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2013, 69, 1094-1096.	0.7	2
43	De novo GTP Biosynthesis Is Critical for Virulence of the Fungal Pathogen <i>Cryptococcus neoformans</i> . <i>PLoS Pathogens</i> , 2012, 8, e1002957.	4.7	56
44	Structural and Functional Analysis of a Plant Resistance Protein TIR Domain Reveals Interfaces for Self-Association, Signaling, and Autoregulation. <i>Cell Host and Microbe</i> , 2011, 9, 200-211.	11.0	301
45	An Autoactive Mutant of the M Flax Rust Resistance Protein Has a Preference for Binding ATP, Whereas Wild-Type M Protein Binds ADP. <i>Molecular Plant-Microbe Interactions</i> , 2011, 24, 897-906.	2.6	141
46	Crystallization, X-ray diffraction analysis and preliminary structure determination of the TIR domain from the flax resistance protein L6. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 237-240.	0.7	3
47	Crystallization and X-ray diffraction analysis of the C-terminal domain of the flax rust effector protein AvrM. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2011, 67, 1603-1607.	0.7	4
48	Engineering <i>Saccharomyces cerevisiae</i> To Release 3-Mercaptohexan-1-ol during Fermentation through Overexpression of an <i>S. cerevisiae</i> Gene, <i>STR3</i> , for Improvement of Wine Aroma. <i>Applied and Environmental Microbiology</i> , 2011, 77, 3626-3632.	3.1	60
49	Purification of the M flax-rust resistance protein expressed in <i>Pichia pastoris</i> . <i>Plant Journal</i> , 2007, 50, 1107-1117.	5.7	10