Philippe Silar

List of Publications by Year
in descending order

97 papers	3,514 citations	172457 29 h-index	168389 53 g-index
100 all docs	100 docs citations	100 times ranked	2734 citing authors

#	Article	IF	Citations
1	The genome sequence of the model ascomycete fungus Podospora anserina. Genome Biology, 2008, 9, R77.	9.6	301
2	Two NADPH oxidase isoforms are required for sexual reproduction and ascospore germination in the filamentous fungus Podospora anserina. Fungal Genetics and Biology, 2004, 41, 982-997.	2.1	239
3	Rapid methods for nucleic acids extraction from Petri dish-grown mycelia. Current Genetics, 1994, 25, 122-123.	1.7	217
4	Multiple recent horizontal transfers of a large genomic region in cheese making fungi. Nature Communications, 2014, 5, 2876.	12.8	195
5	Functions and regulation of the Nox family in the filamentous fungus <i>Podospora anserina</i>: a new role in cellulose degradation. Molecular Microbiology, 2009, 74, 480-496.	2.5	109
6	Mating Systems and Sexual Morphogenesis in Ascomycetes. , 0, , 499-535.		99
7	NADPH oxidase: an enzyme for multicellularity?. Trends in Microbiology, 2003, 11, 9-12.	7.7	97
8	Peroxide accumulation and cell death in filamentous fungi induced by contact with a contestant. Mycological Research, 2005, 109, 137-149.	2.5	91
9	Increased longevity of EF-1Î± high-fidelity mutants in Podospora anserina. Journal of Molecular Biology, 1994, 235, 231-236.	4.2	89
10	Genes That Bias Mendelian Segregation. PLoS Genetics, 2014, 10, e1004387.	3.5	80
11	The Crucial Role of the Pls1 Tetraspanin during Ascospore Germination in <i>Podospora anserina</i> Provides an Example of the Convergent Evolution of Morphogenetic Processes in Fungal Plant Pathogens and Saprobes. Eukaryotic Cell, 2008, 7, 1809-1818.	3.4	79
12	Maintaining Two Mating Types: Structure of the Mating Type Locus and Its Role in Heterokaryosis in <i>Podospora anserina</i>. Genetics, 2014, 197, 421-432.	2.9	69
13	A mitotically inheritable unit containing a MAP kinase module. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13445-13450.	7.1	59
14	Propagation of a Novel Cytoplasmic, Infectious and Deleterious Determinant Is Controlled by Translational Accuracy in Podospora anserina. Genetics, 1999, 151, 87-95.	2.9	59
15	Identification of <scp>NoxD</scp>/<scp>P</scp>ro41 as the homologue of the p22^{phox}<scp>NADPH</scp> oxidase subunit in fungi. Molecular Microbiology, 2015, 95, 1006-1024.	2.5	56
16	A Non-Mendelian MAPK-Generated Hereditary Unit Controlled by a Second MAPK Pathway in<i>Podospora anserina</i>. Genetics, 2012, 191, 419-433.	2.9	55
17	Cytosolic Ribosomal Mutations That Abolish Accumulation of Circular Intron in the Mitochondria Without Preventing Senescence of <i>Podospora anserina</i>. Genetics, 1997, 145, 697-705.	2.9	55
18	PaASK1, a Mitogen-Activated Protein Kinase Kinase Kinase That Controls Cell Degeneration and Cell Differentiation in Podospora anserina. Genetics, 2004, 166, 1241-1252.	2.9	54

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19	IDC1, a Pezizomycotina-specific gene that belongs to the PaMpk1 MAP kinase transduction cascade of the filamentous fungus Podospora anserina. Fungal Genetics and Biology, 2007, 44, 1219-1230.	2.1	53
20	Metallothionein Mto gene of Drosophila melanogaster: Structure and regulation. Journal of Molecular Biology, 1990, 215, 217-224.	4.2	52
21	Genetic control of an epigenetic cell degeneration syndrome in Podospora anserina. Fungal Genetics and Biology, 2005, 42, 564-577.	2.1	52
22	Systematic gene deletions evidences that laccases are involved in several stages of wood degradation in the filamentous fungus <i><scp>P</scp>odospora anserina</i>. Environmental Microbiology, 2014, 16, 141-161.	3.8	48
23	Recombination suppression and evolutionary strata around matingâ€type loci in fungi: documenting patterns and understanding evolutionary and mechanistic causes. New Phytologist, 2021, 229, 2470-2491.	7.3	46
24	Wood Utilization Is Dependent on Catalase Activities in the Filamentous Fungus Podospora anserina. PLoS ONE, 2012, 7, e29820.	2.5	46
25	Identification of PaPKS1, a polyketide synthase involved inÂmelanin formation and its use as a genetic tool inÂPodosporaÂanserina. Mycological Research, 2007, 111, 901-908.	2.5	44
26	An Acetyltransferase Conferring Tolerance to Toxic Aromatic Amine Chemicals. Journal of Biological Chemistry, 2009, 284, 18726-18733.	3.4	44
27	Response ofDrosophilametallothionein promoters to metallic, heat shock and oxidative stresses. FEBS Letters, 1996, 380, 33-38.	2.8	41
28	Plant biomass degrading ability of the coprophilic ascomycete fungus Podospora anserina. Biotechnology Advances, 2016, 34, 976-983.	11.7	41
29	Systematic Deletion of Homeobox Genes in Podospora anserina Uncovers Their Roles in Shaping the Fruiting Body. PLoS ONE, 2012, 7, e37488.	2.5	37
30	Bistability and hysteresis of the 'Secteur' differentiation are controlled by a two-gene locus in Nectria haematococca. BMC Biology, 2004, 2, 18.	3.8	34
31	The Nox/Ferric reductase/Ferric reductase-like families of Eumycetes. Fungal Biology, 2010, 114, 766-777.	2.5	31
32	Non-conventional infectious elements in filamentous fungi. Trends in Genetics, 1999, 15, 141-145.	6.7	30
33	Biotransformation of Trichoderma spp. and Their Tolerance to Aromatic Amines, a Major Class of Pollutants. Applied and Environmental Microbiology, 2013, 79, 4719-4726.	3.1	29
34	A gene graveyard in the genome of the fungus Podospora comata. Molecular Genetics and Genomics, 2019, 294, 177-190.	2.1	29
35	Sme4 coiled-coil protein mediates synaptonemal complex assembly, recombinosome relocalization, and spindle pole body morphogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10614-10619.	7.1	28
36	Cell degeneration in the model system Podospora anserina. Biogerontology, 2001, 2, 1-17.	3.9	27

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37	Appressorium: The Breakthrough in Dikarya. Journal of Fungi (Basel, Switzerland), 2019, 5, 72.	3.5	27
38	Contribution of various classes of defective mitochondrial DNA molecules to senescence in Podospora anserina. Current Genetics, 1997, 31, 171-178.	1.7	26
39	The transcriptional response to the inactivation of the PaMpk1 and PaMpk2 MAP kinase pathways in Podospora anserina. Fungal Genetics and Biology, 2012, 49, 643-652.	2.1	26
40	Bilirubin oxidaseâ€•like proteins from <scp><i>P</i></scp><i>odospora anserina</i>: promising thermostable enzymes for application in transformation of plant biomass. Environmental Microbiology, 2015, 17, 866-875.	3.8	26
41	Identification of the Genes Encoding the Cytosolic Translation Release Factors from Podospora anserina and Analysis of Their Role During the Life Cycle. Genetics, 1998, 149, 1763-1775.	2.9	26
42	Characterization of the genomic organization of the region bordering the centromere of chromosome V of Podospora anserina by direct sequencing. Fungal Genetics and Biology, 2003, 39, 250-263.	2.1	25
43	Podospora anserina: From Laboratory to Biotechnology. Soil Biology, 2013, , 283-309.	0.8	24
44	PaTrx1 and PaTrx3, Two Cytosolic Thioredoxins of the Filamentous Ascomycete <i>Podospora anserina</i> Involved in Sexual Development and Cell Degeneration. Eukaryotic Cell, 2007, 6, 2323-2331.	3.4	23
45	Insights into the Phylogeny or Arylamine N-Acetyltransferases in Fungi. Journal of Molecular Evolution, 2010, 71, 141-152.	1.8	23
46	Genetic control of anastomosis in Podospora anserina. Fungal Genetics and Biology, 2014, 70, 94-103.	2.1	23
47	SymB and SymC, two membrane associated proteins, are required for <scp><i>E</i></scp><i>pichloÃ« festucae</i> hyphal cellâ€“cell fusion and maintenance of a mutualistic interaction with <scp><i>L</i></scp><i>olium perenne</i>. Molecular Microbiology, 2017, 103, 657-677.	2.5	23
48	Characterization of three multicopper oxidases in the filamentous fungus Podospora anserina : A new role of an ABR1-like protein in fungal development?. Fungal Genetics and Biology, 2018, 116, 1-13.	2.1	23
49	What Triggers Senescence in Podospora anserina?. Fungal Genetics and Biology, 1999, 27, 26-35.	2.1	21
50	Species Delimitation in the<i>Podospora anserina/ p. pauciseta/p. comata</i>Species Complex (Sordariales). Cryptogamie, Mycologie, 2017, 38, 485-506.	1.0	21
51	IDC2 and IDC3 , two genes involved in cell non-autonomous signaling of fruiting body development in the model fungus Podospora anserina. Developmental Biology, 2017, 421, 126-138.	2.0	19
52	PaPro1 and IDC4, Two Genes Controlling Stationary Phase, Sexual Development and Cell Degeneration in Podospora anserina. Journal of Fungi (Basel, Switzerland), 2018, 4, 85.	3.5	19
53	Incomplete Penetrance and Variable Expressivity of a Growth Defect as a Consequence of Knocking Out Two K+ Transporters in the Euascomycete Fungus Podospora anserina. Genetics, 2004, 166, 125-133.	2.9	18
54	Grafting as a method for studying development in the filamentous fungus Podospora anserina. Fungal Biology, 2011, 115, 793-802.	2.5	18

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55	Genes that control longevity in Podospora anserina. Mechanisms of Ageing and Development, 1996, 90, 183-193.	4.6	17
56	Convergent evolution of morphogenetic processes in fungi. Communicative and Integrative Biology, 2008, 1, 180-181.	1.4	16
57	A general framework for optimization of probes for gene expression microarray and its application to the fungus Podospora anserina. BMC Research Notes, 2010, 3, 171.	1.4	16
58	Fungi as a promising tool for bioremediation of soils contaminated with aromatic amines, a major class of pollutants. Nature Reviews Microbiology, 2011, 9, 477-477.	28.6	16
59	Morphology and phylogeny of Pseudorobillarda eucalypti sp. nov., from Thailand. Phytotaxa, 2014, 176, 251.	0.3	15
60	Expression of theDrosophila melanogastermetallothionein genes in yeast. FEBS Letters, 1990, 269, 273-276.	2.8	14
61	Cloning, Sequencing, and Transgenic Expression ofPodospora curvicollaandSordaria macrosporaeEF1A Genes: Relationship between Cytosolic Translation and Longevity in Filamentous Fungi. Fungal Genetics and Biology, 1997, 22, 191-198.	2.1	14
62	Maintaining heterokaryosis in pseudo-homothallic fungi. Communicative and Integrative Biology, 2015, 8, e994382.	1.4	14
63	The PaPsr1 and PaWhi2 genes are members of the regulatory network that connect stationary phase to mycelium differentiation and reproduction in Podospora anserina. Fungal Genetics and Biology, 2016, 94, 1-10.	2.1	14
64	Non-Mendelian determinants of morphology in fungi. Current Opinion in Microbiology, 2003, 6, 641-645.	5.1	13
65	Inactivation of Cellobiose Dehydrogenases Modifies the Cellulose Degradation Mechanism of Podospora anserina. Applied and Environmental Microbiology, 2017, 83, .	3.1	13
66	Size Variation of the Nonrecombining Region on the Mating-Type Chromosomes in the Fungal <i>Podospora anserina</i> Species Complex. Molecular Biology and Evolution, 2021, 38, 2475-2492.	8.9	13
67	Deletion and dosage modulation of the eEF1A gene in Podospora anserina: effect on the life cycle. Biogerontology, 2000, 1, 47-54.	3.9	12
68	Rab-GDI Complex Dissociation Factor Expressed through Translational Frameshifting in Filamentous Ascomycetes. PLoS ONE, 2013, 8, e73772.	2.5	11
69	Lignin Degradation and Its Use in Signaling Development by the Coprophilous Ascomycete Podospora anserina. Journal of Fungi (Basel, Switzerland), 2020, 6, 278.	3.5	11
70	Lignin degradation by ascomycetes. Advances in Botanical Research, 2021, 99, 77-113.	1.1	11
71	The PaAlr1 magnesium transporter is required for ascospore development in Podospora anserina. Fungal Biology, 2012, 116, 1111-1118.	2.5	10
72	Cyclooxygenases and lipoxygenases are used by the fungus Podospora anserina to repel nematodes. Biochimica Et Biophysica Acta - General Subjects, 2018, 1862, 2174-2182.	2.4	10

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73	Phenotypic instability in fungi. Advances in Applied Microbiology, 2019, 107, 141-187.	2.4	10
74	Simple Genetic Tools to Study Fruiting Body Development in Fungi. The Open Mycology Journal, 2014, 8, 148-155.	0.8	10
75	eEF1A Controls Ascospore Differentiation Through Elevated Accuracy, but Controls Longevity and Fruiting Body Formation Through Another Mechanism in Podospora anserina. Genetics, 2001, 158, 1477-1489.	2.9	10
76	Regulation, Cell Differentiation and Protein-Based Inheritance. Cell Cycle, 2006, 5, 2584-2587.	2.6	9
77	Biomolecules from olive pruning waste in Sierra MÃ¡gina â€“ Engaging the energy transition by multi-actor and multidisciplinary analyses. Journal of Environmental Management, 2018, 216, 204-213.	7.8	9
78	New shuttle vectors for direct cloning in Saccharomyces cerevisiae. Gene, 1991, 104, 99-102.	2.2	8
79	Is translational accuracy an out-dated topic?. Trends in Genetics, 1994, 10, 71-72.	6.7	8
80	Morphology and phylogeny of Chaetospermum (asexual coelomycetous Basidiomycota)Â. Phytotaxa, 2014, 175, 61.	0.3	7
81	Gene replacement in Penicillium roqueforti. Current Genetics, 2015, 61, 203-210.	1.7	7
82	In vivo labelling of functional ribosomes reveals spatial regulation during starvation in Podospora anserina. BMC Genetics, 2000, 1, 3.	2.7	6
83	Screen for soil fungi highly resistant to dichloroaniline uncovers mostly Fusarium species. Fungal Genetics and Biology, 2015, 81, 82-87.	2.1	6
84	Inositol-phosphate signaling as mediator for growth and sexual reproduction in Podospora anserina. Developmental Biology, 2017, 429, 285-305.	2.0	6
85	The taxonomy of the model filamentous fungus Podospora anserina. MycoKeys, 2020, 75, 51-69.	1.9	6
86	Identification and characterization of PDC1, a novel protein involved in the epigenetic cell degeneration Crippled Growth in <i>Podospora anserina</i>. Molecular Microbiology, 2018, 110, 499-512.	2.5	5
87	Greeneria saprophytica sp. nov. on dead leaves of Syzygium cumini from Chiang Rai, Thailand. Phytotaxa, 2014, 184, 275.	0.3	4
88	Prions and Prion-Like Phenomena in Epigenetic Inheritance. , 2017, , 61-72.		4
89	The mitochondrial translocase of the inner membrane PaTim54 is involved in defense response and longevity in Podospora anserina. Fungal Genetics and Biology, 2019, 132, 103257.	2.1	4
90	Hyphal Interference: Self Versus Non-self Fungal Recognition and Hyphal Death. , 2012, , 155-170.		4

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91	OSIP1 is a selfâ€assembling DUF3129 protein required to protect fungal cells from toxins and stressors. Environmental Microbiology, 2021, 23, 1594-1607.	3.8	3
92	(2803) Proposal to change the conserved type of <i>Podospora</i>, nom. cons. (<i>Ascomycota</i>). Taxon, 2021, 70, 429-430.	0.7	3
93	Prions and Prion-like Phenomena in Epigenetic Inheritance. , 2011, , 63-76.		2
94	Important role of melanin for fertility in the fungus <i>Podospora anserina</i>. G3: Genes, Genomes, Genetics, 2021, 11, .	1.8	2
95	Epigenetics of Eukaryotic Microbes. , 2011, , 185-201.		1
96	Ã‰tude de la dynamique de colonisation microbienne de produits de construction. Materiaux Et Techniques, 2016, 104, 507.	0.9	1
97	A gene cluster with positive and negative elements controls bistability and hysteresis of the crippled versus normal growth in the fungus Podospora anserina. Fungal Genetics and Biology, 2022, 161, 103711.	2.1	0