

# Stefan Olsson

## List of Publications by Year in descending order

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84  
papers

11,061  
citations

126907

33  
h-index

62596

80  
g-index

102  
all docs

102  
docs citations

102  
times ranked

23165  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012, 8, 445-544.	9.1	3,122
3	Bacterial-fungal interactions: ecology, mechanisms and challenges. <i>FEMS Microbiology Reviews</i> , 2018, 42, 335-352.	8.6	468
4	The biosynthetic pathway for aurofusarin in <i>Fusarium graminearum</i> reveals a close link between the naphthoquinones and naphthopyrones. <i>Molecular Microbiology</i> , 2006, 61, 1069-1080.	2.5	168
5	Translocation of <sup>32</sup> P between interacting mycelia of a wood-decomposing fungus and ectomycorrhizal fungi in microcosm systems. <i>New Phytologist</i> , 1999, 144, 183-193.	7.3	141
6	Viscosinamide-producing <i>Pseudomonas fluorescens</i> DR54 exerts a biocontrol effect on <i>Pythium ultimum</i> in sugar beet rhizosphere. <i>FEMS Microbiology Ecology</i> , 2000, 33, 139-146.	2.7	129
7	Induction of Laccase Activity in <i>Rhizoctonia solani</i> by Antagonistic <i>Pseudomonas fluorescens</i> Strains and a Range of Chemical Treatments. <i>Applied and Environmental Microbiology</i> , 2001, 67, 2088-2094.	3.1	115
8	Autophagy provides nutrients for nonassimilating fungal structures and is necessary for plant colonization but not for infection in the necrotrophic plant pathogen <i>Fusarium graminearum</i> . <i>Autophagy</i> , 2012, 8, 326-337.	9.1	99
9	Phosphoimaging as a tool for visualization and noninvasive measurement of P transport dynamics in arbuscular mycorrhizas. <i>New Phytologist</i> , 2002, 154, 809-819.	7.3	82
10	Autophagy-related lipase FgATG15 of <i>Fusarium graminearum</i> is important for lipid turnover and plant infection. <i>Fungal Genetics and Biology</i> , 2011, 48, 217-224.	2.1	80
11	Two Novel Classes of Enzymes Are Required for the Biosynthesis of Aurofusarin in <i>Fusarium graminearum</i> . <i>Journal of Biological Chemistry</i> , 2011, 286, 10419-10428.	3.4	78
12	Metabolites of the phenylurea herbicides chlorotoluron, diuron, isoproturon and linuron produced by the soil fungus <i>Mortierella</i> sp.. <i>Environmental Pollution</i> , 2009, 157, 2806-2812.	7.5	72
13	Vital fluorescent stains for detection of stress in <i>Pythium ultimum</i> and <i>Rhizoctonia solani</i> challenged with viscosinamide from <i>Pseudomonas fluorescens</i> DR54. <i>FEMS Microbiology Ecology</i> , 1999, 30, 11-23.	2.7	69
14	Fungal growth and effects of different wood decomposing fungi on the indigenous bacterial community of polluted and unpolluted soils. <i>Biology and Fertility of Soils</i> , 2003, 37, 190-197.	4.3	66
15	Determination of phospholipid ester-linked fatty acids and poly- $\beta$ -hydroxybutyrate for the estimation of bacterial biomass and activity in the rhizosphere of the rape plant <i>Brassica napus</i> (L.). <i>Canadian Journal of Microbiology</i> , 1985, 31, 1113-1119.	1.7	64
16	Activation of caspase-like activity and poly (ADP-ribose) polymerase degradation during sporulation in <i>Aspergillus nidulans</i> . <i>Fungal Genetics and Biology</i> , 2004, 41, 361-368.	2.1	64
17	Using Phospholipid Fatty Acid Technique to Study Short-Term Effects of the Biological Control Agent <i>Pseudomonas fluorescens</i> DR54 on the Microbial Microbiota in Barley Rhizosphere. <i>Microbial Ecology</i> , 2005, 49, 272-281.	2.8	62
18	Fungal translocation - creating and responding to environmental heterogeneity. <i>The Mycologist</i> , 2004, 18, 79-88.	0.4	59

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19	Transcriptomic profiling of microbe-microbe interactions reveals the specific response of the biocontrol strain <i>P. fluorescens</i> In5 to the phytopathogen <i>Rhizoctonia solani</i> . <i>BMC Research Notes</i> , 2017, 10, 376.	1.4	58
20	Mycelial density profiles of fungi on heterogeneous media and their interpretation in terms of nutrient reallocation patterns. <i>Mycological Research</i> , 1995, 99, 143-153.	2.5	57
21	Growth of inoculated white-rot fungi and their interactions with the bacterial community in soil contaminated with polycyclic aromatic hydrocarbons, as measured by phospholipid fatty acids. <i>Bioresource Technology</i> , 2000, 73, 29-36.	9.6	56
22	Simultaneous, bidirectional translocation of <sup>32</sup> P and <sup>33</sup> P between wood blocks connected by mycelial cords of <i>Hypholoma fasciculare</i> . <i>New Phytologist</i> , 2001, 150, 189-194.	7.3	56
23	Dynamics of phosphorus translocation in intact ectomycorrhizal systems: non-destructive monitoring using a $\mu$ A <sup>2</sup> -scanner. <i>FEMS Microbiology Ecology</i> , 1996, 19, 171-180.	2.7	50
24	Patterns and dynamics of <sup>32</sup> P-phosphate and labelled 2-aminoisobutyric acid ( <sup>14</sup> C-AIB) translocation in intact basidiomycete mycelia. <i>FEMS Microbiology Ecology</i> , 1998, 26, 109-120.	2.7	49
25	Changes in the succession and diversity of protozoan and microbial populations in soil spiked with a range of copper concentrations. <i>Soil Biology and Biochemistry</i> , 2003, 35, 1507-1516.	8.8	46
26	Detection of hydroxyl radicals produced by wood-decomposing fungi. <i>FEMS Microbiology Ecology</i> , 2002, 40, 13-20.	2.7	45
27	Heavy trap formation by <i>Arthrotrrys oligosporain</i> liquid culture. <i>FEMS Microbiology Letters</i> , 1985, 31, 17-21.	1.8	44
28	Evidence for diffusion being the mechanism of translocation in the hyphae of three molds. <i>Experimental Mycology</i> , 1991, 15, 302-309.	1.6	42
29	Real-time measurement of uptake and translocation of <sup>137</sup> Cs within mycelium of <i>Schizophyllum commune</i> Fr. by autoradiography followed by quantitative image analysis. <i>New Phytologist</i> , 1995, 129, 449-465.	7.3	40
30	A novel baiting microcosm approach used to identify the bacterial community associated with <i>Penicillium bilaai</i> hyphae in soil. <i>PLoS ONE</i> , 2017, 12, e0187116.	2.5	40
31	Quantification of predatory and endoparasitic nematophagous fungi in soil. <i>Microbial Ecology</i> , 1987, 13, 89-93.	2.8	38
32	Interactions between bacteria-feeding nematodes and bacteria in the rape rhizosphere: effects on root exudation and distribution of bacteria. <i>FEMS Microbiology Letters</i> , 1990, 73, 13-22.	1.8	37
33	The endosomal recycling of FgSnc1 by FgSnx41-FgSnx4 heterodimer is essential for polarized growth and pathogenicity in <i>Fusarium graminearum</i> . <i>New Phytologist</i> , 2018, 219, 654-671.	7.3	37
34	Agrarian diet and diseases of affluence - Do evolutionary novel dietary lectins cause leptin resistance?. <i>BMC Endocrine Disorders</i> , 2005, 5, 10.	2.2	35
35	Fungal Innate Immunity Induced by Bacterial Microbe-Associated Molecular Patterns (MAMPs). <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 1585-1595.	1.8	35
36	The 5-oxoprolinase is required for conidiation, sexual reproduction, virulence and deoxynivalenol production of <i>Fusarium graminearum</i> . <i>Current Genetics</i> , 2018, 64, 285-301.	1.7	32

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37	Degradation of acenaphthene, phenanthrene and pyrene in a packed-bed biofilm reactor. <i>Applied Microbiology and Biotechnology</i> , 2000, 54, 826-831.	3.6	30
38	<i>Pseudomonas fluorescens</i> DR54 Reduces Sclerotia Formation, Biomass Development, and Disease Incidence of <i>Rhizoctonia solani</i> Causing Damping-Off in Sugar Beet. <i>Microbial Ecology</i> , 2001, 42, 438-445.	2.8	30
39	Biosynthesis of the antimicrobial cyclic lipopeptides nunamycin and nunapeptin by <i>Pseudomonas fluorescens</i> strain In5 is regulated by the LuxR-type transcriptional regulator NunF. <i>MicrobiologyOpen</i> , 2017, 6, e00516.	3.0	30
40	Hyphae-Colonizing <i>Burkholderia</i> sp. "A New Source of Biological Control Agents Against Sheath Blight Disease ( <i>Rhizoctonia solani</i> AG1-IA) in Rice. <i>Microbial Ecology</i> , 2011, 62, 425-434.	2.8	27
41	Growth of <i>Arthrobotrys superba</i> from a birch wood resource base into soil determined by radioactive tracing. <i>FEMS Microbiology Ecology</i> , 2000, 31, 47-51.	2.7	26
42	Confocal imaging of living fungal hyphae challenged with the fungal antagonist viscosinamide. <i>Mycologia</i> , 2000, 92, 216-221.	1.9	26
43	Translocation Induced Outgrowth of Fungi in Nutrient-free Environments. <i>Journal of Theoretical Biology</i> , 2000, 205, 73-84.	1.7	25
44	Three-dimensional outgrowth of a wood-rotting fungus added to a contaminated soil from a former gasworks site. <i>Bioresource Technology</i> , 2001, 78, 37-45.	9.6	24
45	Transfer of phosphorus from <i>Rhizoctonia solani</i> to the mycoparasite <i>Arthrobotrys oligospora</i> . <i>Mycological Research</i> , 1994, 98, 1065-1068.	2.5	23
46	Uptake of Glucose and Phosphorus by Growing Colonies of <i>Fusarium oxysporum</i> as Quantified by Image Analysis. <i>Experimental Mycology</i> , 1994, 18, 33-47.	1.6	23
47	Confocal Imaging of Living Fungal Hyphae Challenged with the Fungal Antagonist Viscosinamide. <i>Mycologia</i> , 2000, 92, 216.	1.9	23
48	<i>Magnaporthe oryzae</i> CK2 Accumulates in Nuclei, Nucleoli, at Septal Pores and Forms a Large Ring Structure in Appressoria, and Is Involved in Rice Blast Pathogenesis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 113.	3.9	22
49	Accumulation of radionuclides from radioactive substrata by some micromycetes. <i>Journal of Environmental Radioactivity</i> , 2003, 67, 119-130.	1.7	17
50	Updated Insight into the Physiological and Pathological Roles of the Retromer Complex. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1601.	4.1	17
51	Increasing access to microfluidics for studying fungi and other branched biological structures. <i>Fungal Biology and Biotechnology</i> , 2019, 6, 1.	5.1	17
52	Promoter regulation and genetic engineering strategies for enhanced cellulase expression in <i>Trichoderma reesei</i> . <i>Microbiological Research</i> , 2022, 259, 127011.	5.3	17
53	Growth of <i>Verticillium dahliae</i> Kleb. hyphae and of bacteria along the roots of rape ( <i>Brassica napus</i> L.) seedlings. <i>Canadian Journal of Microbiology</i> , 1987, 33, 916-919.	1.7	16
54	A glass fiber filter technique for studying nutrient uptake by fungi: The technique used on colonies grown on nutrient gradients of carbon and phosphorus. <i>Experimental Mycology</i> , 1991, 15, 292-301.	1.6	16

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55	Low Concentration of Copper Inhibits Colonization of Soil by the Arbuscular Mycorrhizal Fungus <i>Glomus intraradices</i> and Changes the Microbial Community Structure. <i>Microbial Ecology</i> , 2011, 61, 844-852.	2.8	14
56	Microsclerotial germination of <i>Verticillium dahliae</i> affected by rape rhizosphere. <i>FEMS Microbiology Letters</i> , 1985, 31, 293-299.	1.8	13
57	A Microplate Reader-Based System for Visualizing Transcriptional Activity During in vivo Microbial Interactions in Space and Time. <i>Scientific Reports</i> , 2017, 7, 281.	3.3	13
58	Methylenetetrahydrofolate Reductase Activity Is Involved in the Plasma Membrane Redox System Required for Pigment Biosynthesis in Filamentous Fungi. <i>Eukaryotic Cell</i> , 2010, 9, 1225-1235.	3.4	12
59	Fungal-Associated Molecules Induce Key Genes Involved in the Biosynthesis of the Antifungal Secondary Metabolites Nunamycin and Nunapeptin in the Biocontrol Strain <i>Pseudomonas fluorescens</i> In5. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	12
60	Chapter 39 Ecology and Evolution of Fungal-Bacterial Interactions. <i>Mycology</i> , 2017, , 563-584.	0.5	11
61	Characterization of two infection-induced transcription factors of <i>Magnaporthe oryzae</i> reveals their roles in regulating early infection and effector expression. <i>Molecular Plant Pathology</i> , 2022, 23, 1200-1213.	4.2	11
62	Long-term culturing of plants with aseptic roots. Determination of rape root exudates. <i>Plant, Cell and Environment</i> , 1984, 7, 549-552.	5.7	10
63	Biological control of rice sheath blight using hyphae-associated bacteria: development of an in planta screening assay to predict biological control agent performance under field conditions. <i>BioControl</i> , 2018, 63, 843-853.	2.0	10
64	Colonial Growth of Fungi. , 2001, , 125-141.		10
65	Growth of bacteria in the rhizoplane and the rhizosphere of rape seedlings. <i>FEMS Microbiology Letters</i> , 1988, 53, 355-360.	1.8	9
66	Draft Genome Sequence of <i>Pseudomonas</i> sp. Strain In5 Isolated from a Greenlandic Disease Suppressive Soil with Potent Antimicrobial Activity. <i>Genome Announcements</i> , 2015, 3, .	0.8	9
67	Long-term culturing of plants with aseptic roots Determination of rape root exudates. <i>Plant, Cell and Environment</i> , 1984, 7, 549-552.	5.7	9
68	Digested wheat gluten inhibits binding between leptin and its receptor. <i>BMC Biochemistry</i> , 2015, 16, 3.	4.4	8
69	Conserved Eukaryotic Kinase CK2 Chaperone Intrinsically Disordered Protein Interactions. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	3.1	8
70	Viscosinamide-producing <i>Pseudomonas fluorescens</i> DR54 exerts a biocontrol effect on <i>Pythium ultimum</i> in sugar beet rhizosphere. <i>FEMS Microbiology Ecology</i> , 2000, 33, 139-146.	2.7	8
71	Vital fluorescent stains for detection of stress in <i>Pythium ultimum</i> and <i>Rhizoctonia solani</i> challenged with viscosinamide from <i>Pseudomonas fluorescens</i> DR54. <i>FEMS Microbiology Ecology</i> , 1999, 30, 11-23.	2.7	6
72	Expression profiling and functional analyses of BghPTR2, a peptide transporter from <i>Blumeria graminis</i> f. sp. <i>hordei</i> . <i>Fungal Biology</i> , 2015, 119, 551-559.	2.5	5

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73	A broad-host range dual-fluorescence reporter system for gene expression analysis in Gram-negative bacteria. <i>Journal of Microbiological Methods</i> , 2018, 144, 173-176.	1.6	5
74	A fast and simple method for classification of soil bacterial populations. <i>Zeitschrift Fur Pflanzenernahrung Und Bodenkunde = Journal of Plant Nutrition and Plant Science</i> , 1984, 147, 198-202.	0.4	4
75	A NOTE Direct microscopy of <i>Bacillus</i> endospore germination in soil microcosms. <i>Journal of Applied Microbiology</i> , 2000, 89, 595-598.	3.1	4
76	Genome Wide Identification and Expression Profiles of TALE Genes in Pineapple ( <i>Ananas comosus</i> L). <i>Tropical Plant Biology</i> , 2019, 12, 304-317.	1.9	3
77	A novel microcosm to identify inherently competitive microorganisms with the ability to mineralize phytate in solum. <i>Soil Ecology Letters</i> , 2021, 3, 367-382.	4.5	2
78	MoSep3 and MoExo70 are needed for MoCK2 ring assembly essential for appressorium function in the rice blast fungus, <i>Magnaporthe oryzae</i> . <i>Molecular Plant Pathology</i> , 2021, 22, 1159-1164.	4.2	2
79	Patterns and dynamics of <sup>32</sup> P-phosphate and labelled 2-aminoisobutyric acid ( <sup>14</sup> C-AIB) translocation in intact basidiomycete mycelia. <i>FEMS Microbiology Ecology</i> , 1998, 26, 109-120.	2.7	2
80	Continuous imaging in fungi. <i>New Phytologist</i> , 2002, 153, 6-7.	7.3	1
81	Microsclerotial germination of <i>Verticillium dahliae</i> as affected by rape rhizosphere. <i>FEMS Microbiology Letters</i> , 1985, 31, 293-299.	1.8	1
82	Imaging Gene Expression Dynamics in <i>Pseudomonas fluorescens</i> In5 during Interactions with the Fungus <i>Fusarium graminearum</i> PH-1. <i>Bio-protocol</i> , 2019, 9, e3264.	0.4	1
83	Degradation of Chitotetraose to Chitobiose in the Axenic Rape Rhizosphere. <i>Journal of Experimental Botany</i> , 1991, 42, 931-934.	4.8	0
84	Growth of <i>Arthrobotrys superba</i> from a birch wood resource base into soil determined by radioactive tracing. <i>FEMS Microbiology Ecology</i> , 2000, 31, 47-51.	2.7	0