Robert Bauer

List of Publications by Year
in descending order

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109 papers	6,023 citations	101543 36 h-index	76900 74 g-index
109 all docs	109 docs citations	109 times ranked	5041 citing authors

#	Article	IF	Citations
1	A higher-level phylogenetic classification of the Fungi. Mycological Research, 2007, 111, 509-547.	2.5	1,994
2	Sebacinales Everywhere: Previously Overlooked Ubiquitous Fungal Endophytes. PLoS ONE, 2011, 6, e16793.	2.5	198
3	Ultrastructural markers and systematics in smut fungi and allied taxa. Canadian Journal of Botany, 1997, 75, 1273-1314.	1.1	183
4	The simple-septate basidiomycetes: a synopsis. Mycological Progress, 2006, 5, 41-66.	1.4	152
5	An overview of the higher level classification of Pucciniomycotina based on combined analyses of nuclear large and small subunit rDNA sequences. Mycologia, 2006, 98, 896-905.	1.9	143
6	Phylogenetic placements of ustilaginomycetous anamorphs as deduced from nuclear LSU rDNA sequences. Mycological Research, 2000, 104, 53-60.	2.5	142
7	A phylogenetic hypothesis of Ustilaginomycotina based on multiple gene analyses and morphological data. Mycologia, 2006, 98, 906-916.	1.9	139
8	Phylogenetic studies on nuclear large subunit ribosomal DNA sequences of smut fungi and related taxa. Canadian Journal of Botany, 1997, 75, 2045-2056.	1.1	137
9	Enigmatic Sebacinales. Mycological Progress, 2013, 12, 1-27.	1.4	94
10	Brain State-Dependent Transcranial Magnetic Closed-Loop Stimulation Controlled by Sensorimotor Desynchronization Induces Robust Increase of Corticospinal Excitability. Brain Stimulation, 2016, 9, 415-424.	1.6	91
11	A phylogenetic hypothesis of Ustilaginomycotina based on multiple gene analyses and morphological data. Mycologia, 2006, 98, 906-916.	1.9	87
12	Ectomycorrhizas involving sebacinoid mycobionts. Mycological Research, 2003, 107, 3-14.	2.5	84
13	Bridging the gap between motor imagery and motor execution with a brainâ€“robot interface. NeuroImage, 2015, 108, 319-327.	4.2	81
14	An overview of the higher level classification of Pucciniomycotina based on combined analyses of nuclear large and small subunit rDNA sequences. Mycologia, 2006, 98, 896-905.	1.9	80
15	Phylogeny of the Quambalariaceae fam. nov., including important Eucalyptus pathogens in South Africa and Australia. Studies in Mycology, 2006, 55, 289-298.	7.2	78
16	Suppression of plant defence response by a mycorrhiza helper bacterium. New Phytologist, 2007, 174, 892-903.	7.3	77
17	Atractiellomycetes belonging to the â€˜rustâ€™ lineage (Pucciniomycotina) form mycorrhizae with terrestrial and epiphytic neotropical orchids. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 1289-1298.	2.6	76
18	Analysis of cell wall carbohydrates (neutral sugars) from ascomycetous and basidiomycetous yeasts with and without derivatization.. Journal of General and Applied Microbiology, 1993, 39, 1-34.	0.7	72

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19	Brainâ€“robot interface driven plasticity: Distributed modulation of corticospinal excitability. NeuroImage, 2016, 125, 522-532.	4.2	67
20	Brain state-dependent robotic reaching movement with a multi-joint arm exoskeleton: combining brain-machine interfacing and robotic rehabilitation. Frontiers in Human Neuroscience, 2015, 9, 564.	2.0	62
21	Combining TMS and tACS for Closed-Loop Phase-Dependent Modulation of Corticospinal Excitability: A Feasibility Study. Frontiers in Cellular Neuroscience, 2016, 10, 143.	3.7	62
22	Taxonomic studies in the Microbotryomycetidae: Leucosporidium golubevii sp. nov., Leucosporidiella gen. nov. and the new orders Leucosporidiales and Sporidiobolales. Mycological Progress, 2003, 2, 53-68.	1.4	60
23	The illustrated life cycle ofMicrobotryumon the host plantSilene latifolia. Botany, 2010, 88, 875-885.	1.0	55
24	Lateralized alpha-band cortical networks regulate volitional modulation of beta-band sensorimotor oscillations. NeuroImage, 2014, 87, 147-153.	4.2	55
25	Communities of Endophytic Sebacinales Associated with Roots of Herbaceous Plants in Agricultural and Grassland Ecosystems Are Dominated by Serendipita herbamans sp. nov. PLoS ONE, 2014, 9, e94676.	2.5	53
26	Yeasts associated with termites: a phenotypic and genotypic characterization and use of coevolution for dating evolutionary radiations in asco- and basidiomycetes. Systematic and Applied Microbiology, 1996, 19, 265-283.	2.8	50
27	Reinforcement learning for adaptive threshold control of restorative brain-computer interfaces: a Bayesian simulation. Frontiers in Neuroscience, 2015, 9, 36.	2.8	49
28	The Exobasidiales: An evolutionary hypothesis. Mycological Progress, 2002, 1, 187-199.	1.4	48
29	The genome of the basal agaricomycete Xanthophyllomyces dendrorhous provides insights into the organization of its acetyl-CoA derived pathways and the evolution of Agaricomycotina. BMC Genomics, 2015, 16, 233.	2.8	47
30	Anther smut fungi on monocots. Mycological Research, 2008, 112, 1297-1306.	2.5	45
31	Phylogenetic diversity and structure of sebacinoid fungi associated with plant communities along an altitudinal gradient. FEMS Microbiology Ecology, 2013, 83, 265-278.	2.7	44
32	Neurosensory Effects of Transcranial Alternating Current Stimulation. Brain Stimulation, 2014, 7, 823-831.	1.6	44
33	Morphology and molecules: the Sebacinales, a case study. Mycological Progress, 2014, 13, 445-470.	1.4	43
34	Entorrhizomycota: A New Fungal Phylum Reveals New Perspectives on the Evolution of Fungi. PLoS ONE, 2015, 10, e0128183.	2.5	43
35	Tuberculina: rust relatives attack rusts. Mycologia, 2004, 96, 614-626.	1.9	41
36	Mycoparasitism of some Tremella species. Mycologia, 1994, 86, 49-56.	1.9	40

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37	Estimating cognitive load during self-regulation of brain activity and neurofeedback with therapeutic brain-computer interfaces. Frontiers in Behavioral Neuroscience, 2015, 9, 21.	2.0	37
38	Muribasidiospora: Microstromatales or Exobasidiales?. Mycological Research, 2001, 105, 798-810.	2.5	35
39	Cellular interaction of the smut fungus Ustacystis waldsteiniae. Canadian Journal of Botany, 1995, 73, 867-883.	1.1	33
40	Heterogastridiales: A New Order of Basidiomycetes. Mycologia, 1990, 82, 48-58.	1.9	32
41	Phylogeny and Systematics of the Fungi with Special Reference to the Ascomycota and Basidiomycota. , 2002, 81, 207-295.		31
42	About the genus Thecaphora (Glomosporiaceae) and its new synonyms. Mycological Progress, 2008, 7, 31-39.	1.4	30
43	Colacogloea: a new genus in the auricularioid Heterobasidiomycetes. Canadian Journal of Botany, 1990, 68, 2531-2536.	1.1	29
44	Closed-loop adaptation of neurofeedback based on mental effort facilitates reinforcement learning of brain self-regulation. Clinical Neurophysiology, 2016, 127, 3156-3164.	1.5	29
45	12 Tremellomycetes and Related Groups. , 2014, , 331-355.		28
46	The Georgefischeriales: a phylogenetic hypothesis. Mycological Research, 2001, 105, 416-424.	2.5	26
47	What is the optimal task difficulty for reinforcement learning of brain self-regulation?. Clinical Neurophysiology, 2016, 127, 3033-3041.	1.5	26
48	Classicula: the teleomorph ofNaiadella fluitans. Mycologia, 2003, 95, 756-764.	1.9	25
49	Probing Corticospinal Recruitment Patterns and Functional Synergies with Transcranial Magnetic Stimulation. Frontiers in Cellular Neuroscience, 2016, 10, 175.	3.7	25
50	Cryptomycocolax:A New Mycoparasitic Heterobasidiomycete. Mycologia, 1990, 82, 671-692.	1.9	24
51	Tuberculina â€" Thanatophytum/Rhizoctonia crocorum â€" Helicobasidium: a unique mycoparasitic-phytoparasitic life strategy. Mycological Research, 2004, 108, 227-238.	2.5	24
52	Predicting workload profiles of brainâ€"robot interface and electromygraphic neurofeedback with cortical resting-state networks: personal trait or task-specific challenge?. Journal of Neural Engineering, 2015, 12, 046029.	3.5	24
53	Mycoparasitism of Some Tremella Species. Mycologia, 1994, 86, 49.	1.9	23
54	Tuberculina: Rust Relatives Attack Rusts. Mycologia, 2004, 96, 614.	1.9	23

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55	Occultifur externus sp. nov., a new species of simple-pored auricularioid heterobasidiomycete from plant litter in Portugal. Mycologia, 1999, 91, 1094-1101.	1.9	22
56	Occultifur Externus sp. nov., a New Species of Simple-Pored Auricularioid Heterobasidiomycete from Plant Litter in Portugal. Mycologia, 1999, 91, 1094.	1.9	22
57	High genetic diversity at the regional scale and possible speciation in Sebacina epigaea and S. incrustans. BMC Evolutionary Biology, 2013, 13, 102.	3.2	22
58	Erratomyces, a new genus of Tilletiales with species on Leguminosae. Mycologia, 1997, 89, 924-936.	1.9	21
59	Bartheletia paradoxa is a living fossil on Ginkgo leaf litter with a unique septal structure in the Basidiomycota. Mycological Research, 2008, 112, 1265-1279.	2.5	21
60	Cryptomycocolax: A New Mycoparasitic Heterobasidiomycete. Mycologia, 1990, 82, 671.	1.9	20
61	Heterogastridiales: A New Order of Basidiomycetes. Mycologia, 1990, 82, 48.	1.9	20
62	An electron microscopic study of meiosis and the spindle pole body cycle in the smut fungus Sphacelotheca polygoni-serrulati. Canadian Journal of Botany, 1991, 69, 245-255.	1.1	20
63	The intercellular biotrophic leaf pathogen Cymadothea trifolii locally degrades pectins, but not cellulose or xyloglucan in cell walls of Trifolium repens. New Phytologist, 2005, 165, 243-260.	7.3	20
64	Flamingomyces and Parvulago, new genera of marine smut fungi (Ustilaginomycotina). Mycological Research, 2007, 111, 1199-1206.	2.5	20
65	The spindle pole body cycle, meiosis, and basidial cytology of the smut fungus Microbotryum violaceum. Canadian Journal of Botany, 1991, 69, 1795-1803.	1.1	19
66	Colacosiphon: a new genus described for a mycoparasitic fungus. Mycologia, 2001, 93, 634-644.	1.9	19
67	Basidial development, spindle pole body, septal pore, and hostâ€parasiteâ€interaction in Ustilago esculenta. Nordic Journal of Botany, 1990, 10, 457-464.	0.5	18
68	Phragmoxenidium mycophilum sp. nov., an Unusual Mycoparasitic Heterobasidiomycete. Systematic and Applied Microbiology, 1990, 13, 186-191.	2.8	18
69	Gjaerumia, a new genus in the Georgefischeriales (Ustilaginomycetes). Mycological Research, 2005, 109, 1250-1258.	2.5	18
70	Meiosis, septal pore architecture, and systematic position of the heterobasidiomycetous fern parasite Herpobasidium filicinum. Canadian Journal of Botany, 1994, 72, 1229-1242.	1.1	17
71	Colacosiphon: A New Genus Described for a Mycoparasitic Fungus. Mycologia, 2001, 93, 634.	1.9	17
72	The vegetative life-cycle of the clover pathogen Cymadothea trifolii as revealed by transmission electron microscopy. Mycological Research, 2005, 109, 764-778.	2.5	16

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73	Aneuraceae (Metzgeriales) and tulasnelloid fungi (Basidiomycota) â€“ a model for early steps in fungal symbiosis. Fungal Biology, 2011, 115, 839-851.	2.5	16
74	Comparative Genomics Including the Early-Diverging Smut FungusCeraceosorus bombacisReveals Signatures of Parallel Evolution within Plant and Animal Pathogens of Fungi and Oomycetes. Genome Biology and Evolution, 2015, 7, 2781-2798.	2.5	16
75	Haustoria of the mycoparasitic heterobasidiomycete Christiansenia pallida.. Cytologia, 1990, 55, 419-424.	0.6	15
76	Septal pore apparatus of the smutUstacystis waldsteiniae. Mycologia, 1995, 87, 18-24.	1.9	15
77	Atractocolax, a New Heterobasidiomycetous Genus Based on a Species Vectored by Conifericolous Bark Beetles. Mycologia, 1999, 91, 538.	1.9	15
78	Two new pycnidial members of the Atractiellales: Basidiopycnis hyalina and Proceropycnis pinicola. Mycologia, 2006, 98, 637-649.	1.9	15
79	Cumulative effects of single TMS pulses during beta-tACS are stimulation intensity-dependent. Brain Stimulation, 2017, 10, 1055-1060.	1.6	15
80	Tuberculina-rusts: a unique basidiomycetous interfungal cellular interaction with horizontal nuclear transfer. Mycologia, 2004, 96, 960-967.	1.9	14
81	Melanoxa, a new genus in the Urocystidales (Ustilaginomycotina). Mycological Progress, 2012, 11, 149-158.	1.4	14
82	Identification of a new order of root-colonising fungi in the Entorrhizomycota: Talbotiomycetales ord. nov. on eudicotyledons. IMA Fungus, 2015, 6, 129-133.	3.8	14
83	Tuberculina-Helicobasidium: Host specificity of the Tuberculina-stage reveals unexpected diversity within the group. Mycologia, 2004, 96, 1316-1329.	1.9	13
84	Atractocolax, a new heterobasidiomycetous genus based on a species vectored by conifericolous bark beetles. Mycologia, 1999, 91, 538-543.	1.9	12
85	Classicula: The Teleomorph of Naiadella fluitans. Mycologia, 2003, 95, 756.	1.9	12
86	Constraints and Adaptation of Closed-Loop Neuroprosthetics for Functional Restoration. Frontiers in Neuroscience, 2017, 11, 111.	2.8	12
87	Fine-scale vertical movements of oceanic whitetip sharks (Carcharhinus longimanus). Fishery Bulletin, 2017, 115, 380-395.	0.2	12
88	Meiosis, Spindle Pole Body Cycle and Basidium Ontogeny in the Heterobasidiomycete Agaricostilbum pulcherrimum. Systematic and Applied Microbiology, 1992, 15, 259-274.	2.8	11
89	Ustilaginomycetes on Selaginella. Mycologia, 1999, 91, 475-484.	1.9	11
90	Ustilaginomycetes on Selaginella. Mycologia, 1999, 91, 475.	1.9	11

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91	Two new pycnidial members of the Atractiellales:Basidiopycnis hyalinaandProceropycnis pinicola. Mycologia, 2006, 98, 637-649.	1.9	11
92	The Mycoparasitism of Platygloea bispora. Kew Bulletin, 1999, 54, 763.	0.9	10
93	Cystobasidiopsis nirenbergiae, a new agaricostilbomycete (Pucciniomycotina). Mycological Research, 2009, 113, 960-966.	2.5	9
94	Growth inhibition of an Araucaria angustifolia (Coniferopsida) fungal seed pathogen, Neofusicoccum parvum, by soil streptomycetes. BMC Microbiology, 2013, 13, 168.	3.3	9
95	Septal Pore Apparatus of the Smut Ustacystis waldsteiniae. Mycologia, 1995, 87, 18.	1.9	8
96	Ustilaginomycetes on Osmunda. Mycologia, 1999, 91, 669-675.	1.9	8
97	The unique cellular interaction between the leaf pathogen Cymadothea trifolii and Trifolium repens. Mycologia, 2004, 96, 1209-1217.	1.9	7
98	The Unique Cellular Interaction between the Leaf Pathogen Cymadothea trifolii and Trifolium repens. Mycologia, 2004, 96, 1209.	1.9	6
99	Schizonella caricis-atratae (Ustilaginomycetes): a new cryptic species on Carex atrata from Austria. Mycological Progress, 2009, 8, 157-164.	1.4	6
100	Tuberculina-Helicobasidium: Host Specificity of the Tuberculina-Stage Reveals Unexpected Diversity within the Group. Mycologia, 2004, 96, 1316.	1.9	5
101	Tuberculina-Rusts: A Unique Basidiomycetous Interfungal Cellular Interaction with Horizontal Nuclear Transfer. Mycologia, 2004, 96, 960.	1.9	5
102	Cellular Basidiomyceteâ€“Fungus Interactions. , 2008, , 267-279.		5
103	Mycosphaerella podagrariaeâ€”a necrotrophic phytopathogen forming a special cellular interaction with its host Aegopodium podagraria. Mycological Progress, 2010, 9, 49-56.	1.4	4
104	The interaction apparatus of Asteridiella callista (Meliolaceae, Ascomycota). Mycologia, 2014, 106, 216-223.	1.9	4
105	Morphology and phylogenetics of Stomatisora, including Stomatisora psychotriicola sp. nov.. Mycological Progress, 2014, 13, 1097.	1.4	4
106	Derivation of a Homogenized Bendingâ€“Torsion Theory for Rods with Micro-Heterogeneous Prestrain. Journal of Elasticity, 2020, 141, 109-145.	1.9	4
107	Residential movements of top predators in Chileâ€™s most isolated marine protected area: Implications for the conservation of the Galapagos shark, <scp>Carcharhinus galapagensis</scp>, and the yellowtail amberjack, <scp>Seriola lalandi</scp>. Aquatic Conservation: Marine and Freshwater Ecosystems, 2021, 31, 340-355.	2.0	4
108	The Sterigmata of Volvocisporium: A Clarification. Mycological Research, 2002, 106, 131.	2.5	1

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109	Cellular Ustilaginomyceteâ€“Plant Interactions. , 2008, , 227-236.		0