

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	Residential movements of top predators in Chile's most isolated marine protected area: Implications for the conservation of the Galapagos shark, <i>Carcharhinus galapagensis</i> , and the yellowtail amberjack, <i>Seriola lalandi</i> . <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2021, 31, 340-355.	2.0	4
2	Derivation of a Homogenized Bending-Torsion Theory for Rods with Micro-Heterogeneous Prestrain. <i>Journal of Elasticity</i> , 2020, 141, 109-145.	1.9	4
3	Cumulative effects of single TMS pulses during beta-tACS are stimulation intensity-dependent. <i>Brain Stimulation</i> , 2017, 10, 1055-1060.	1.6	15
4	Constraints and Adaptation of Closed-Loop Neuroprosthetics for Functional Restoration. <i>Frontiers in Neuroscience</i> , 2017, 11, 111.	2.8	12
5	Fine-scale vertical movements of oceanic whitetip sharks (<i>Carcharhinus longimanus</i>). <i>Fishery Bulletin</i> , 2017, 115, 380-395.	0.2	12
6	Combining TMS and tACS for Closed-Loop Phase-Dependent Modulation of Corticospinal Excitability: A Feasibility Study. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 143.	3.7	62
7	Probing Corticospinal Recruitment Patterns and Functional Synergies with Transcranial Magnetic Stimulation. <i>Frontiers in Cellular Neuroscience</i> , 2016, 10, 175.	3.7	25
8	Closed-loop adaptation of neurofeedback based on mental effort facilitates reinforcement learning of brain self-regulation. <i>Clinical Neurophysiology</i> , 2016, 127, 3156-3164.	1.5	29
9	What is the optimal task difficulty for reinforcement learning of brain self-regulation?. <i>Clinical Neurophysiology</i> , 2016, 127, 3033-3041.	1.5	26
10	Brain State-Dependent Transcranial Magnetic Closed-Loop Stimulation Controlled by Sensorimotor Desynchronization Induces Robust Increase of Corticospinal Excitability. <i>Brain Stimulation</i> , 2016, 9, 415-424.	1.6	91
11	Brain-robot interface driven plasticity: Distributed modulation of corticospinal excitability. <i>NeuroImage</i> , 2016, 125, 522-532.	4.2	67
12	Brain state-dependent robotic reaching movement with a multi-joint arm exoskeleton: combining brain-machine interfacing and robotic rehabilitation. <i>Frontiers in Human Neuroscience</i> , 2015, 9, 564.	2.0	62
13	Reinforcement learning for adaptive threshold control of restorative brain-computer interfaces: a Bayesian simulation. <i>Frontiers in Neuroscience</i> , 2015, 9, 36.	2.8	49
14	Entorrhizomycota: A New Fungal Phylum Reveals New Perspectives on the Evolution of Fungi. <i>PLoS ONE</i> , 2015, 10, e0128183.	2.5	43
15	Estimating cognitive load during self-regulation of brain activity and neurofeedback with therapeutic brain-computer interfaces. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 21.	2.0	37
16	Predicting workload profiles of brain-robot interface and electromyographic neurofeedback with cortical resting-state networks: personal trait or task-specific challenge?. <i>Journal of Neural Engineering</i> , 2015, 12, 046029.	3.5	24
17	Bridging the gap between motor imagery and motor execution with a brain-robot interface. <i>NeuroImage</i> , 2015, 108, 319-327.	4.2	81
18	The genome of the basal agaricomycete <i>Xanthophyllomyces dendrorhous</i> provides insights into the organization of its acetyl-CoA derived pathways and the evolution of Agaricomycotina. <i>BMC Genomics</i> , 2015, 16, 233.	2.8	47

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19	Comparative Genomics Including the Early-Diverging Smut Fungus <i>Ceraceosorus bombacis</i> Reveals Signatures of Parallel Evolution within Plant and Animal Pathogens of Fungi and Oomycetes. <i>Genome Biology and Evolution</i> , 2015, 7, 2781-2798.	2.5	16
20	Identification of a new order of root-colonising fungi in the Entorrhizomycota: Talbotiomycetales ord. nov. on eudicotyledons. <i>IMA Fungus</i> , 2015, 6, 129-133.	3.8	14
21	Communities of Endophytic Sebaciniales Associated with Roots of Herbaceous Plants in Agricultural and Grassland Ecosystems Are Dominated by <i>Serendipita herbamans</i> sp. nov. <i>PLoS ONE</i> , 2014, 9, e94676.	2.5	53
22	The interaction apparatus of <i>Asteridiella callista</i> (Meliolaceae, Ascomycota). <i>Mycologia</i> , 2014, 106, 216-223.	1.9	4
23	Morphology and phylogenetics of <i>Stomatisora</i> , including <i>Stomatisora psychotriicola</i> sp. nov.. <i>Mycological Progress</i> , 2014, 13, 1097.	1.4	4
24	12 Tremellomycetes and Related Groups. , 2014, , 331-355.		28
25	Neurosensory Effects of Transcranial Alternating Current Stimulation. <i>Brain Stimulation</i> , 2014, 7, 823-831.	1.6	44
26	Morphology and molecules: the Sebaciniales, a case study. <i>Mycological Progress</i> , 2014, 13, 445-470.	1.4	43
27	Lateralized alpha-band cortical networks regulate volitional modulation of beta-band sensorimotor oscillations. <i>NeuroImage</i> , 2014, 87, 147-153.	4.2	55
28	High genetic diversity at the regional scale and possible speciation in <i>Sebacina epigaea</i> and <i>S. incrustans</i> . <i>BMC Evolutionary Biology</i> , 2013, 13, 102.	3.2	22
29	Growth inhibition of an <i>Araucaria angustifolia</i> (Coniferopsida) fungal seed pathogen, <i>Neofusicoccum parvum</i> , by soil streptomycetes. <i>BMC Microbiology</i> , 2013, 13, 168.	3.3	9
30	Phylogenetic diversity and structure of sebacinoid fungi associated with plant communities along an altitudinal gradient. <i>FEMS Microbiology Ecology</i> , 2013, 83, 265-278.	2.7	44
31	Enigmatic Sebaciniales. <i>Mycological Progress</i> , 2013, 12, 1-27.	1.4	94
32	<i>Melanoxa</i> , a new genus in the Urocystidales (Ustilaginomycotina). <i>Mycological Progress</i> , 2012, 11, 149-158.	1.4	14
33	Aneuraceae (Metzgeriales) and tulasnelloid fungi (Basidiomycota) – a model for early steps in fungal symbiosis. <i>Fungal Biology</i> , 2011, 115, 839-851.	2.5	16
34	Sebaciniales Everywhere: Previously Overlooked Ubiquitous Fungal Endophytes. <i>PLoS ONE</i> , 2011, 6, e16793.	2.5	198
35	<i>Mycosphaerella podagrariae</i> – a necrotrophic phytopathogen forming a special cellular interaction with its host <i>Aegopodium podagraria</i> . <i>Mycological Progress</i> , 2010, 9, 49-56.	1.4	4
36	Attractiellomycetes belonging to the “rust” lineage (Pucciniomycotina) form mycorrhizae with terrestrial and epiphytic neotropical orchids. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 1289-1298.	2.6	76

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37	The illustrated life cycle of <i>Microbotryum</i> on the host plant <i>Silene latifolia</i> . Botany, 2010, 88, 875-885.	1.0	55
38	<i>Cystobasidiopsis nirenbergiae</i> , a new agaricostilbomycete (Pucciniomycotina). Mycological Research, 2009, 113, 960-966.	2.5	9
39	<i>Schizonella caricis-atratae</i> (Ustilaginomycetes): a new cryptic species on <i>Carex atrata</i> from Austria. Mycological Progress, 2009, 8, 157-164.	1.4	6
40	About the genus <i>Thecaphora</i> (Glomosporiaceae) and its new synonyms. Mycological Progress, 2008, 7, 31-39.	1.4	30
41	Anther smut fungi on monocots. Mycological Research, 2008, 112, 1297-1306.	2.5	45
42	<i>Bartheletia paradoxa</i> is a living fossil on <i>Ginkgo</i> leaf litter with a unique septal structure in the Basidiomycota. Mycological Research, 2008, 112, 1265-1279.	2.5	21
43	Cellular Basidiomycete-Plant Interactions. , 2008, , 267-279.		5
44	Cellular Ustilaginomycete-Plant Interactions. , 2008, , 227-236.		0
45	Suppression of plant defence response by a mycorrhiza helper bacterium. New Phytologist, 2007, 174, 892-903.	7.3	77
46	A higher-level phylogenetic classification of the Fungi. Mycological Research, 2007, 111, 509-547.	2.5	1,994
47	<i>Flamingomyces</i> and <i>Parvulago</i> , new genera of marine smut fungi (Ustilaginomycotina). Mycological Research, 2007, 111, 1199-1206.	2.5	20
48	Phylogeny of the Quambalariaceae fam. nov., including important <i>Eucalyptus</i> pathogens in South Africa and Australia. Studies in Mycology, 2006, 55, 289-298.	7.2	78
49	Two new pycnidial members of the Atractiellales: <i>Basidiopycnis hyalina</i> and <i>Proceropycnis pinicola</i> . Mycologia, 2006, 98, 637-649.	1.9	11
50	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
51	A phylogenetic hypothesis of Ustilaginomycotina based on multiple gene analyses and morphological data. Mycologia, 2006, 98, 906-916.	1.9	87
52	The simple-septate basidiomycetes: a synopsis. Mycological Progress, 2006, 5, 41-66.	1.4	152
53	Two new pycnidial members of the Atractiellales: <i>Basidiopycnis hyalina</i> and <i>Proceropycnis pinicola</i> . Mycologia, 2006, 98, 637-649.	1.9	15
54	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

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55	A phylogenetic hypothesis of Ustilaginomycotina based on multiple gene analyses and morphological data. <i>Mycologia</i> , 2006, 98, 906-916.	1.9	139
56	The intercellular biotrophic leaf pathogen <i>Cymadothea trifolii</i> locally degrades pectins, but not cellulose or xyloglucan in cell walls of <i>Trifolium repens</i> . <i>New Phytologist</i> , 2005, 165, 243-260.	7.3	20
57	The vegetative life-cycle of the clover pathogen <i>Cymadothea trifolii</i> as revealed by transmission electron microscopy. <i>Mycological Research</i> , 2005, 109, 764-778.	2.5	16
58	<i>Gjaerumia</i> , a new genus in the Geogfischeriales (Ustilaginomycetes). <i>Mycological Research</i> , 2005, 109, 1250-1258.	2.5	18
59	Tuberculina-Helicobasidium: Host Specificity of the Tuberculina-Stage Reveals Unexpected Diversity within the Group. <i>Mycologia</i> , 2004, 96, 1316.	1.9	5
60	Tuberculina: Rust Relatives Attack Rusts. <i>Mycologia</i> , 2004, 96, 614.	1.9	23
61	The Unique Cellular Interaction between the Leaf Pathogen <i>Cymadothea trifolii</i> and <i>Trifolium repens</i> . <i>Mycologia</i> , 2004, 96, 1209.	1.9	6
62	Tuberculina "Thanatophytum/Rhizoctonia crocorum" Helicobasidium: a unique mycoparasitic-phytoparasitic life strategy. <i>Mycological Research</i> , 2004, 108, 227-238.	2.5	24
63	Tuberculina-Rusts: A Unique Basidiomycetous Interfungal Cellular Interaction with Horizontal Nuclear Transfer. <i>Mycologia</i> , 2004, 96, 960.	1.9	5
64	<i>Tuberculina-Helicobasidium:</i> Host specificity of the <i>Tuberculina</i>-stage reveals unexpected diversity within the group. <i>Mycologia</i> , 2004, 96, 1316-1329.	1.9	13
65	Tuberculina-rusts: a unique basidiomycetous interfungal cellular interaction with horizontal nuclear transfer. <i>Mycologia</i> , 2004, 96, 960-967.	1.9	14
66	The unique cellular interaction between the leaf pathogen <i>Cymadothea trifolii</i> and <i>Trifolium repens</i>. <i>Mycologia</i> , 2004, 96, 1209-1217.	1.9	7
67	<i>Tuberculina</i>: rust relatives attack rusts. <i>Mycologia</i> , 2004, 96, 614-626.	1.9	41
68	Taxonomic studies in the Microbotryomycetidae: <i>Leucosporidium golubevii</i> sp. nov., <i>Leucosporidiella</i> gen. nov. and the new orders Leucosporidiales and Sporidiobolales. <i>Mycological Progress</i> , 2003, 2, 53-68.	1.4	60
69	Ectomycorrhizas involving sebacinoid mycobionts. <i>Mycological Research</i> , 2003, 107, 3-14.	2.5	84
70	Classicula: The Teleomorph of <i>Naiadella fluitans</i> . <i>Mycologia</i> , 2003, 95, 756.	1.9	12
71	<i>Classicula</i>: the teleomorph of <i>Naiadella fluitans</i>. <i>Mycologia</i> , 2003, 95, 756-764.	1.9	25
72	Phylogeny and Systematics of the Fungi with Special Reference to the Ascomycota and Basidiomycota. , 2002, 81, 207-295.		31

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73	The Sterigmata of <i>Volvocisporium</i> : A Clarification. <i>Mycological Research</i> , 2002, 106, 131.	2.5	1
74	The Exobasidiales: An evolutionary hypothesis. <i>Mycological Progress</i> , 2002, 1, 187-199.	1.4	48
75	<i>Muribasidiospora</i> : Microstromatales or Exobasidiales?. <i>Mycological Research</i> , 2001, 105, 798-810.	2.5	35
76	<i>Colacosiphon</i> : a new genus described for a mycoparasitic fungus. <i>Mycologia</i> , 2001, 93, 634-644.	1.9	19
77	The <i>Georgefischeriales</i> : a phylogenetic hypothesis. <i>Mycological Research</i> , 2001, 105, 416-424.	2.5	26
78	<i>Colacosiphon</i> : A New Genus Described for a Mycoparasitic Fungus. <i>Mycologia</i> , 2001, 93, 634.	1.9	17
79	Phylogenetic placements of ustilaginomycetous anamorphs as deduced from nuclear LSU rDNA sequences. <i>Mycological Research</i> , 2000, 104, 53-60.	2.5	142
80	Ustilaginomycetes on <i>Selaginella</i> . <i>Mycologia</i> , 1999, 91, 475-484.	1.9	11
81	<i>Atractocolax</i> , a new heterobasidiomycetous genus based on a species vectored by conifericolous bark beetles. <i>Mycologia</i> , 1999, 91, 538-543.	1.9	12
82	Ustilaginomycetes on <i>Osmunda</i> . <i>Mycologia</i> , 1999, 91, 669-675.	1.9	8
83	<i>Occultifur externus</i> sp. nov., a new species of simple-pored auricularioid heterobasidiomycete from plant litter in Portugal. <i>Mycologia</i> , 1999, 91, 1094-1101.	1.9	22
84	The Mycoparasitism of <i>Platygløea bispøra</i> . <i>Kew Bulletin</i> , 1999, 54, 763.	0.9	10
85	<i>Atractocolax</i> , a New Heterobasidiomycetous Genus Based on a Species Vectored by Conifericolous Bark Beetles. <i>Mycologia</i> , 1999, 91, 538.	1.9	15
86	<i>Occultifur Externus</i> sp. nov., a New Species of Simple-Pored Auricularioid Heterobasidiomycete from Plant Litter in Portugal. <i>Mycologia</i> , 1999, 91, 1094.	1.9	22
87	Ustilaginomycetes on <i>Selaginella</i> . <i>Mycologia</i> , 1999, 91, 475.	1.9	11
88	Ultrastructural markers and systematics in smut fungi and allied taxa. <i>Canadian Journal of Botany</i> , 1997, 75, 1273-1314.	1.1	183
89	Phylogenetic studies on nuclear large subunit ribosomal DNA sequences of smut fungi and related taxa. <i>Canadian Journal of Botany</i> , 1997, 75, 2045-2056.	1.1	137
90	<i>Erratomyces</i> , a new genus of Tilletiales with species on Leguminosae. <i>Mycologia</i> , 1997, 89, 924-936.	1.9	21

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91	Yeasts associated with termites: a phenotypic and genotypic characterization and use of coevolution for dating evolutionary radiations in asco- and basidiomycetes. <i>Systematic and Applied Microbiology</i> , 1996, 19, 265-283.	2.8	50
92	Septal pore apparatus of the smut <i>Ustacystis waldsteiniae</i> . <i>Mycologia</i> , 1995, 87, 18-24.	1.9	15
93	Cellular interaction of the smut fungus <i>Ustacystis waldsteiniae</i> . <i>Canadian Journal of Botany</i> , 1995, 73, 867-883.	1.1	33
94	Septal Pore Apparatus of the Smut <i>Ustacystis waldsteiniae</i> . <i>Mycologia</i> , 1995, 87, 18.	1.9	8
95	Mycoparasitism of some <i>Tremella</i> species. <i>Mycologia</i> , 1994, 86, 49-56.	1.9	40
96	Mycoparasitism of Some <i>Tremella</i> Species. <i>Mycologia</i> , 1994, 86, 49.	1.9	23
97	Meiosis, septal pore architecture, and systematic position of the heterobasidiomycetous fern parasite <i>Herpobasidium filicinum</i> . <i>Canadian Journal of Botany</i> , 1994, 72, 1229-1242.	1.1	17
98	Analysis of cell wall carbohydrates (neutral sugars) from ascomycetous and basidiomycetous yeasts with and without derivatization.. <i>Journal of General and Applied Microbiology</i> , 1993, 39, 1-34.	0.7	72
99	Meiosis, Spindle Pole Body Cycle and Basidium Ontogeny in the Heterobasidiomycete <i>Agaricostilbum pulcherrimum</i> . <i>Systematic and Applied Microbiology</i> , 1992, 15, 259-274.	2.8	11
100	The spindle pole body cycle, meiosis, and basidial cytology of the smut fungus <i>Microbotryum violaceum</i> . <i>Canadian Journal of Botany</i> , 1991, 69, 1795-1803.	1.1	19
101	An electron microscopic study of meiosis and the spindle pole body cycle in the smut fungus <i>Sphacelotheca polygoni-serrulati</i> . <i>Canadian Journal of Botany</i> , 1991, 69, 245-255.	1.1	20
102	Haustoria of the mycoparasitic heterobasidiomycete <i>Christiansenia pallida</i> .. <i>Cytologia</i> , 1990, 55, 419-424.	0.6	15
103	Basidial development, spindle pole body, septal pore, and host-parasite interaction in <i>Ustilago esculenta</i> . <i>Nordic Journal of Botany</i> , 1990, 10, 457-464.	0.5	18
104	Cryptomycocolax: A New Mycoparasitic Heterobasidiomycete. <i>Mycologia</i> , 1990, 82, 671-692.	1.9	24
105	Heterogastridiales: A New Order of Basidiomycetes. <i>Mycologia</i> , 1990, 82, 48-58.	1.9	32
106	Cryptomycocolax: A New Mycoparasitic Heterobasidiomycete. <i>Mycologia</i> , 1990, 82, 671.	1.9	20
107	Colacogloea: a new genus in the auricularioid Heterobasidiomycetes. <i>Canadian Journal of Botany</i> , 1990, 68, 2531-2536.	1.1	29
108	<i>Phragmoxenidium mycophilum</i> sp. nov., an Unusual Mycoparasitic Heterobasidiomycete. <i>Systematic and Applied Microbiology</i> , 1990, 13, 186-191.	2.8	18

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109	Heterogastridiales: A New Order of Basidiomycetes. <i>Mycologia</i> , 1990, 82, 48.	1.9	20