Walter R Tschinkel

List of Publications by Year
in descending order

100	5,002	71102	102487
papers	citations	41 h-index	66 g-index

101	101	101	2164
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Sociometry and Sociogenesis of Colonies of the Fire Ant Solenopsis Invicta During One Annual Cycle. Ecological Monographs, 1993, 63, 425-457.	5.4	260
2	Foraging in Solenopsis invicta (Hymenoptera: Formicidae): Effects of Weather and Season. Environmental Entomology, 1987, 16, 802-808.	1.4	189
3	Fire ant polymorphism: the ergonomics of brood production. Behavioral Ecology and Sociobiology, 1985, 16, 323-336.	1.4	167
4	Experimental evidence that human impacts drive fire ant invasions and ecological change. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 20339-20343.	7.1	167
5	Colony founding by pleometrosis in the fire ant, Solenopsis invicta. Behavioral Ecology and Sociobiology, 1983, 12, 103-113.	1.4	143
6	Colony growth and the ontogeny of worker polymorphism in the fire ant, Solenopsis invicta. Behavioral Ecology and Sociobiology, 1988, 22, 103-115.	1.4	143
7	Desiccation resistance in arboreal and terrestrial ants. Physiological Entomology, 1990, 15, 23-35.	1.5	136
8	Subterranean ant nests: trace fossils past and future?. Palaeogeography, Palaeoclimatology, Palaeoecology, 2003, 192, 321-333.	2.3	136
9	Seasonal life history and nest architecture of a winter-active ant,Prenolepis imparis. Insectes Sociaux, 1987, 34, 143-164.	1.2	125
10	Distribution of the Fire Ants Solenopsis invicta and S. geminata (Hymenoptera: Formicidae) in Northern Florida in Relation to Habitat and Disturbance. Annals of the Entomological Society of America, 1988, 81, 76-81.	2.5	121
11	The nest architecture of the Florida harvester ant, Pogonomyrmex badius. Journal of Insect Science, 2004, 4, 21.	1.5	112
12	Experimental evidence that the introduced fire ant, Solenopsis invicta, does not competitively suppress co-occurring ants in a disturbed habitat. Journal of Animal Ecology, 2006, 75, 1370-1378.	2.8	107
13	Nest architecture of the ant Formica pallidefulva : structure, costs and rules of excavation. Insectes Sociaux, 2004, 51, 30-36.	1.2	99
14	Insect sociometry, a field in search of data. Insectes Sociaux, 1991, 38, 77-82.	1.2	93
15	Sociometry and sociogenesis of colonies of the harvester ant, Pogonomyrmex badius : worker characteristics in relation to colony size and season. Insectes Sociaux, 1998, 45, 385-410.	1.2	92
16	Resource allocation, brood production and cannibalism during colony founding in the fire ant,Solenopsis invicta. Behavioral Ecology and Sociobiology, 1993, 33, 209-223.	1.4	84
17	Sociometry and sociogenesis of colonies of the harvester ant, Pogonomyrmex badius : distribution of workers, brood and seeds within the nest in relation to colony size and season. Ecological Entomology, 1999, 24, 222-237.	2.2	83
18	Brood raiding and the population dynamics of founding and incipient colonies of the fire ant, Solenopsis invicta. Ecological Entomology, 1992, 17, 179-188.	2.2	79

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19	Aspects of Necrophoric Behavior in the Red Imported Fire Ant, Solenopsis Invicta. Behaviour, 1976, 56, 157-178.	0.8	78
20	Sociometry and Sociogenesis of Colony-Level Attributes of the Florida Harvester Ant (Hymenoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.5	77
21	Ritualized conflict in Odontomachus brunneus and the generation of interaction-based task allocation: a new organizational mechanism in ants. Animal Behaviour, 1999, 58, 965-972.	1.9	75
22	Social control of egg-laying rate in queens of the fire ant, Solenopsis invicta*. Physiological Entomology, 1988, 13, 327-350.	1.5	74
23	Fire Ant Polymorphism (Hymenoptera: Formicidae): Factors Affecting Worker Size. Annals of the Entomological Society of America, 1985, 78, 381-386.	2.5	71
24	Brood Raiding in the Fire Ant, Solenopsis invicta (Hymenoptera: Formicidae): Laboratory and Field Observations. Annals of the Entomological Society of America, 1992, 85, 638-646.	2.5	65
25	Nest complexity, group size and brood rearing in the fire ant, Solenopsis invicta. Insectes Sociaux, 2002, 49, 158-163.	1.2	65
26	Territory Area and Colony Size in the Fire Ant Solenopsis invicta. Journal of Animal Ecology, 1995, 64, 473.	2.8	64
27	Thermoregulatory brood transport in the fire ant, Solenopsis invicta. Insectes Sociaux, 2008, 55, 176-182.	1.2	63
28	Fire Ant Queen Longevity and Age: Estimation by Sperm Depletion. Annals of the Entomological Society of America, 1987, 80, 263-266.	2.5	61
29	The Life Cycle and Life Span of Namibian Fairy Circles. PLoS ONE, 2012, 7, e38056.	2.5	61
30	Efficiency of Sperm Use in Queens of the Fire Ant, Solenopsis invicta (Hymenoptera: Formicidae). Annals of the Entomological Society of America, 1988, 81, 777-781.	2.5	59
31	Queen dimorphism and reproductive strategies in the fire ant Solenopsis geminata (Hymenoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock	1.4	59
32	The Reproductive Biology of Fire Ant Societies. BioScience, 1998, 48, 593-605.	4.9	59
33	Demography, demand, death, and the seasonal allocation of labor in the Florida harvester ant (Pogonomyrmex badius). Behavioral Ecology and Sociobiology, 2013, 67, 2011-2027.	1.4	59
34	Subterranean transport and deposition of quartz by ants in sandy sites relevant to age overestimation in optical luminescence dating. Journal of Archaeological Science, 2013, 40, 2217-2226.	2.4	59
35	Queen replacement in orphaned colonies of the fire ant, Solenopsis invicta. Behavioral Ecology and Sociobiology, 1978, 3, 297-310.	1.4	57
36	Task selection by workers of the fire ant Solenopsis invicta. Behavioral Ecology and Sociobiology, 1999, 45, 301-310.	1.4	56

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37	The nest architecture of the ant, Camponotus socius. Journal of Insect Science, 2005, 5, 9.	1.5	56
38	Relationship between Ovariole Number and Spermathecal Sperm Count in Ant Queens: a New Allometry. Annals of the Entomological Society of America, 1987, 80, 208-211.	2.5	54
39	The nest architecture of the Florida harvester ant, Pogonomyrmex badius. Journal of Insect Science, 2004, 4, 1-19.	0.9	51
40	The architecture of subterranean ant nests: beauty and mystery underfoot. Journal of Bioeconomics, 2015, 17, 271-291.	3.3	50
41	Effects of foundress number on brood raids and queen survival in the fire ant Solenopsis invicta. Behavioral Ecology and Sociobiology, 1995, 37, 233-242.	1.4	46
42	Methods for Casting Subterranean Ant Nests. Journal of Insect Science, 2010, 10, 1-17.	1.5	42
43	Mechanisms of population regulation in the fire ant Solenopsis invicta : an experimental study. Journal of Animal Ecology, 2001, 70, 355-369.	2.8	41
44	Colony Productivity of the Fungus-Gardening Ant <I>Trachymyrmex septentrionalis</I> (Hymenoptera:) Tj ETQq0 0 0 rgBT /Overlock 10	2.5	39
45	A newly-discovered mode of colony founding among fire ants. Insectes Sociaux, 1996, 43, 267-276.	1.2	36
46	Ant community change across a ground vegetation gradient in north Florida's longleaf pine flatwoods. Journal of Insect Science, 2003, 3, 1-17.	0.9	33
47	The Organization of Foraging in the Fire Ant,Solenopsis invicta. Journal of Insect Science, 2011, 11, 1-30.	1.5	33
48	The Seasonal Natural History of the Ant,Dolichoderus mariae, in Northern Florida. Journal of Insect Science, 2009, 9, 1-26.	1.5	32
49	The nest architecture of the ant, Camponotus socius. Journal of Insect Science, 2005, 5, 1-18.	0.9	31
50	Food limitation in the fungusâ€gardening ant, Trachymyrmex septentrionalis. Ecological Entomology, 2008, 33, 597-607.	2.2	31
51	The sociometry and sociogenesis of reproduction in the Florida harvester ant, Pogonomyrmex badius. Journal of Insect Science, 2006, 6, 1-11.	1.5	30
52	Experimental evidence for weak effects of fire ants in a naturally invaded pineâ€savanna ecosystem in north Florida. Ecological Entomology, 2013, 38, 68-75.	2.2	30
53	Food preference in colonies of the fire antSolenopsis invicta. Insectes Sociaux, 1981, 28, 217-222.	1.2	28
54	Energetics of newly-mated queens and colony founding in the fungus-gardening ants Cyphomyrmex rimosus and Trachymyrmex septentrionalis (Hymenoptera: Formicidae). Physiological Entomology, 2007, 32, 8-15.	1.5	28

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55	Experiments Testing the Causes of Namibian Fairy Circles. PLoS ONE, 2015, 10, e0140099.	2.5	28
56	Allometry of workers of the fire ant, Solenopsis invicta. Journal of Insect Science, 2003, 3, 2.	1.5	26
57	A case study of human exacerbation of the invasive species problem: transport and establishment of polygyne fire ants in Tallahassee, Florida, USA. Biological Invasions, 2009, 11, 373-377.	2.4	26
58	Experimental evidence that dispersal drives ant community assembly in humanâ€altered ecosystems. Ecology, 2016, 97, 236-249.	3.2	26
59	Internal distribution of liquid foods in isolated workers of the fire ant, Solenopsis invicta. Journal of Insect Physiology, 1981, 27, 67-74.	2.0	25
60	Arboreal Ant Community of a Pine Forest in Northern Florida. Annals of the Entomological Society of America, 1999, 92, 63-70.	2.5	24
61	The Nest Architecture of the AntOdontomachus brunneus. Journal of Insect Science, 2010, 10, 1-12.	1.5	24
62	Limited flexibility and unusual longevity shape forager allocation in the Florida harvester ant (Pogonomyrmex badius). Behavioral Ecology and Sociobiology, 2016, 70, 221-235.	1.4	24
63	Edaphic properties enable facilitative and competitive interactions resulting in fairy circle formation. Ecography, 2017, 40, 1210-1220.	4.5	24
64	The Natural History of the Arboreal Ant, Crematogaster ashmeadi. Journal of Insect Science, 2002, 2, 1-15.	0.9	23
65	The natural history of the arboreal ant, Crematogaster ashmeadi. Journal of Insect Science, 2002, 2, 12.	1.5	23
66	Nest Relocation and Excavation in the Florida Harvester Ant, Pogonomyrmex badius. PLoS ONE, 2014, 9, e112981.	2.5	23
67	A seasonal natural history of the ant, Odontomachus brunneus. Insectes Sociaux, 2012, 59, 45-54.	1.2	22
68	Settlement and distribution of colony-founding queens of the arboreal ant, Crematogaster ashmeadi , in a longleaf pine forest. Insectes Sociaux, 1997, 44, 323-336.	1.2	21
69	Distribution of the fungusâ€gardening ant (Trachymyrmex septentrionalis) during and after a record drought. Insect Conservation and Diversity, 2010, 3, 134-142.	3.0	21
70	The Foraging Tunnel System of the Namibian Desert Termite,Baucaliotermes hainesi. Journal of Insect Science, 2010, 10, 1-17.	1.5	21
71	Ant community change across a ground vegetation gradient in north Florida's longleaf pine flatwoods.. Journal of Insect Science, 2003, 3, 21.	1.5	20
72	The Nest Architecture of Three Species of North FloridaAphaenogasterAnts. Journal of Insect Science, 2011, 11, 1-30.	1.5	20

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73	Ant Distribution in Relation to Ground Water in North Florida Pine Flatwoods. Journal of Insect Science, 2012, 12, 1-20.	0.9	20
74	Biomantling and Bioturbation by Colonies of the Florida Harvester Ant, Pogonomyrmex badius. PLoS ONE, 2015, 10, e0120407.	2.5	20
75	The life history and seasonal cycle of the ant, Pheidole morrisi Forel, as revealed by wax casting. Insectes Sociaux, 2015, 62, 265-280.	1.2	20
76	Contrasting Global Patterns of Spatially Periodic Fairy Circles and Regular Insect Nests in Drylands. Journal of Geophysical Research G: Biogeosciences, 2019, 124, 3327-3342.	3.0	19
77	Fire Ants,Solenopsis invicta, Dry and Store Insect Pieces for Later Use. Journal of Insect Science, 2008, 8, 1-8.	1.5	18
78	Ant Fat Extraction with a Soxhlet Extractor: Figure 1.. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5243.	0.3	18
79	Scientific Natural History: Telling the Epics of Nature. BioScience, 2014, 64, 438-443.	4.9	18
80	The Role of Habitat in the Persistence of Fire Ant Populations. PLoS ONE, 2013, 8, e78580.	2.5	18
81	The Morphometry of Solenopsis Fire Ants. PLoS ONE, 2013, 8, e79559.	2.5	18
82	Targeted Removal of Ant Colonies in Ecological Experiments, Using Hot Water. Journal of Insect Science, 2007, 7, 1-12.	1.5	17
83	Ant community and habitat limit colony establishment by the fire ant, Solenopsis invicta. Functional Ecology, 2017, 31, 955-964.	3.6	17
84	Bioturbation by the Fungus-Gardening Ant, Trachymyrmex septentrionalis. PLoS ONE, 2016, 11, e0158920.	2.5	17
85	An experimental study of pleometrotic colony founding in the fire ant, Solenopsis invicta â€Š: what is the basis for association?. Behavioral Ecology and Sociobiology, 1998, 43, 247-257.	1.4	16
86	Oriented Mound Building in the Ant, Trachymyrmex septentrionalis. Environmental Entomology, 1974, 3, 667-673.	1.4	15
87	Definition of â€œfairy circlesâ€•and how they differ from other common vegetation gaps and plant rings. Journal of Vegetation Science, 2021, 32, e13092.	2.2	15
88	The Florida Harvester Ant, Pogonomyrmex badius, Relies on Germination to Consume Large Seeds. PLoS ONE, 2016, 11, e0166907.	2.5	14
89	Worker Allometry in Relation to Colony Size and Social form in the Fire AntSolenopsis invicta. Journal of Insect Science, 2010, 10, 1-10.	1.5	13
90	Florida Harvester Ant Nest Architecture, Nest Relocation and Soil Carbon Dioxide Gradients. PLoS ONE, 2013, 8, e59911.	2.5	13

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91	Vertical organization of the division of labor within nests of the Florida harvester ant, Pogonomyrmex badius. PLoS ONE, 2017, 12, e0188630.	2.5	13
92	Respiration, worker body size, tempo and activity in whole colonies of ants. Physiological Entomology, 2015, 40, 149-165.	1.5	12
93	Object Depots in the Genus Pogonomyrmex: Exploring the â€œWho,â€•What, When, and Where. Journal of Insect Behavior, 2005, 18, 859-879.	0.7	11
94	Sequential Subterranean Transport of Excavated Sand and Foraged Seeds in Nests of the Harvester Ant, Pogonomyrmex badius. PLoS ONE, 2015, 10, e0139922.	2.5	11
95	An experimental study of colony-founding in pine saplings by queens of the arboreal ant, Crematogaster ashmeadi. Insectes Sociaux, 1999, 46, 41-44.	1.2	10
96	Mermithid Nematode Parasitism of Solenopsis Ants (Hymenoptera: Formicidae) of Northern Florida. Annals of the Entomological Society of America, 1996, 89, 231-237.	2.5	9
97	The adaptive nature of non-food collection for the Florida harvester ant, Pogonomyrmex badius. Ecological Entomology, 2007, 32, 105-112.	2.2	9
98	Lifespan, age, size-specific mortality and dispersion of colonies of the Florida harvester ant, Pogonomyrmex badius. Insectes Sociaux, 2017, 64, 285-296.	1.2	8
99	An illustrated guide to seeds found in nests of the Florida harvester ant, Pogonomyrmex badius. PLoS ONE, 2017, 12, e0171419.	2.5	3
100	Do Florida harvester ant colonies (Pogonomyrmex badius) have a nest architecture â€œplan?â€• Ecology, 2017, 98, 1176-1178.	3.2	0