Raghavendra Gadagkar

List of Publications by Year
in descending order

155 papers	2,452 citations	201385 27 h-index	288905 40 g-index
171 all docs	171 docs citations	171 times ranked	1087 citing authors

#	Article	IF	Citations
1	Quantitative ethology of social wasps: Time-activity budgets and caste differentiation in Ropalidia marginata (Lep.) (Hymenoptera: Vespidae). Animal Behaviour, 1983, 31, 26-31.	0.8	77
2	On testing the role of genetic asymmetries created by haplodiploidy in the evolution of eusociality in the Hymenoptera. Journal of Genetics, 1991, 70, 1-31.	0.4	74
3	Dominance relationship in the establishment of reproductive division of labour in a primitively eusocial wasp (Ropalidia marginata). Behavioral Ecology and Sociobiology, 1996, 39, 125-132.	0.6	71
4	The evolution of caste polymorphism in social insects:0 Genetic release followed by diversifying evolution. Journal of Genetics, 1997, 76, 167-179.	0.4	71
5	Kin recognition in social insects and other animalsâ€"A review of recent findings and a consideration of their relevance for the theory of kin selection. Proceedings: Animal Sciences, 1985, 94, 587-621.	0.0	69
6	Choosing an appropriate index to construct dominance hierarchies in animal societies: a comparison of three indices. Animal Behaviour, 2010, 79, 631-636.	0.8	69
7	Regulation of reproduction in a queenless ant: aggression, pheromones and reduction in conflict. Proceedings of the Royal Society B: Biological Sciences, 2002, 269, 1295-1300.	1.2	68
8	Social Organisation in the Indian Wasp Ropalidia cyathiformis (Fab.) (Hymenoptera: Vespidae). Zeitschrift FÃ¼r Tierpsychologie, 1984, 64, 15-32.	0.2	55
9	Regulation of Reproduction in the Primitively Eusocial Wasp Ropalidia marginata: on the Trail of the Queen Pheromone. Journal of Chemical Ecology, 2010, 36, 424-431.	0.9	54
10	The role of larval nutrition in preâ€imaginal biasing of caste in the primitively eusocial wasp Ropalidia marginata (Hymenoptera: Vespidae). Ecological Entomology, 1991, 16, 435-440.	1.1	51
11	The role of age in temporal polyethism in a primitively eusocial wasp. Behavioral Ecology and Sociobiology, 1998, 42, 37-47.	0.6	49
12	Behavioural Castes, Dominance and Division of Labour in a Primitively Eusocial Wasp. Ethology, 1991, 87, 269-283.	0.5	49
13	Queen succession in the primitively eusocial tropical waspRopalidia marginata (Lep.) (Hymenoptera:) Tj ETQq1 1 0.784314 rgBT /Over	0.4	46
14	Demographic predisposition to the evolution of eusociality: a hierarchy of models.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 10993-10997.	3.3	44
15	Why the Definition of Eusociality Is Not Helpful to Understand Its Evolution and What Should We Do about It. Oikos, 1994, 70, 485.	1.2	43
16	Flexible Division of Labor Mediated by Social Interactions in an Insect Colonyâ€"a Simulation Model. Journal of Theoretical Biology, 1999, 197, 123-133.	0.8	43
17	Juvenile hormone accelerates ovarian development and does not affect age polyethism in the primitively eusocial wasp, Ropalidia marginata. Journal of Insect Physiology, 2003, 49, 217-222.	0.9	42
18	Reproductive queue without overt conflict in the primitively eusocial wasp Ropalidia marginata. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 14494-14499.	3.3	42

#	Article	IF	Citations
19	Regulation of worker activity in a primitively eusocial wasp, Ropalidia marginata. Behavioral Ecology, 1995, 6, 117-123.	1.0	41
20	A possible novel function of dominance behaviour in queen-less colonies of the primitively eusocial wasp Ropalidia marginata. Behavioural Processes, 2007, 74, 351-356.	0.5	39
21	The mechanism of nestmate discrimination in the tropical social wasp Ropalidia marginata and its implications for the evolution of sociality. Behavioral Ecology and Sociobiology, 1988, 23, 271-279.	0.6	38
22	Emergence of cooperation and division of labor in the primitively eusocial waspRopalidia marginata. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 756-761.	3.3	33
23	Dominance behaviour and regulation of foraging in the primitively eusocial wasp Ropalidia marginata (Lep.) (Hymenoptera: Vespidae). Behavioural Processes, 2006, 72, 100-103.	0.5	32
24	Observations on the natural history and population ecology of the social waspRopalidia marginata (Lep.) from Peninsular India (Hymenoptera: Vespidae). Proceedings: Animal Sciences, 1982, 91, 539-552.	0.0	31
25	Colony founding in the primitively eusocial wasp,Ropalidia marginata(Hymenoptera: Vespidae). Ecological Entomology, 1995, 20, 273-282.	1.1	31
26	Evolution of insect socialityâ€"A review of some attempts to test modern theories. Proceedings: Animal Sciences, 1985, 94, 309-324.	0.0	30
27	Can animals be spiteful?. Trends in Ecology and Evolution, 1993, 8, 232-234.	4.2	30
28	Chemical communication in Ropalidia marginata: Dufour's gland contains queen signal that is perceived across colonies and does not contain colony signal. Journal of Insect Physiology, 2011, 57, 280-284.	0.9	28
29	Social insects and social amoebae. Journal of Biosciences, 1994, 19, 219-245.	0.5	27
30	Docile sitters and active fighters in paper wasps: a tale of two queens. Die Naturwissenschaften, 2002, 89, 176-179.	0.6	27
31	A comparative social network analysis of wasp colonies and classrooms: Linking network structure to functioning. Ecological Complexity, 2009, 6, 48-55.	1.4	26
32	Can Dufourâ€™s gland compounds honestly signal fertility in the primitively eusocial wasp Ropalidia marginata?. Die Naturwissenschaften, 2011, 98, 157-161.	0.6	26
33	We know that the wasps â€˜knowâ€™: cryptic successors to the queen inRopalidia marginata. Biology Letters, 2008, 4, 634-637.	1.0	25
34	Signaling hunger through aggressionâ€"the regulation of foraging in a primitively eusocial wasp. Die Naturwissenschaften, 2008, 95, 677-680.	0.6	24
35	<scp>WASP</scp>nest: a worldwide assessment of social Polistine nesting behavior. Ecology, 2018, 99, 2405-2405.	1.5	24
36	How do workers of the primitively eusocial wasp Ropalidia marginata detect the presence of their queens?. Journal of Theoretical Biology, 2007, 246, 574-582.	0.8	23

#	Article	IF	Citations
37	Behaviour of the Indian social wasp Ropalidia cyathiformis on a nest of separate combs (Hymenoptera:) Tj ETQq1 1 0.784314 rgBT /O	0.8	23
38	Bacteriophage burst size during multiple infections. Journal of Biosciences, 1980, 2, 253-259.	0.5	22
39	Evidence for multiple mating in the primitively eusocial waspRopalidia marginata (Lep.) (Hymenoptera:) Tj ETQq1 1 0.784314 rgBT /O	0.4	22
40	Males of the social wasp Ropalidia marginata can feed larvae, given an opportunity. Animal Behaviour, 2006, 71, 345-350.	0.8	21
41	Origin and evolution of eusociality: a perspective from studying primitively eusocial wasps. Journal of Genetics, 1990, 69, 113-125.	0.4	20
42	On reconfirming the evidence for pre-imaginal caste bias in a primitively eusocial wasp. Proceedings: Animal Sciences, 1990, 99, 141-150.	0.0	19
43	Worker-brood genetic relatedness in a primitively eusocial wasp. Die Naturwissenschaften, 1991, 78, 523-526.	0.6	19
44	Evolution of social behaviour in the primitively eusocial waspRopalidia marginata: do we need to look beyond kin selection?. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150094.	1.8	19
45	Evolution of worker policing. Journal of Theoretical Biology, 2016, 399, 103-116.	0.8	19
46	Do Social Wasps Choose Nesting Strategies Based on Their Brood Rearing Abilities?. Die Naturwissenschaften, 1997, 84, 79-82.	0.6	18
47	Uniform discrimination of pattern orientation by honeybees. Animal Behaviour, 1998, 56, 1391-1398.	0.8	18
48	Division of labor among a cohort of young individuals in a primitively eusocial wasp. Insectes Sociaux, 1998, 45, 247-254.	0.7	18
49	Workers of the primitively eusocial wasp Ropalidia marginata do not perceive their queen across a wire mesh partition. Journal of Ethology, 2008, 26, 207-212.	0.4	18
50	Ropalidia rufoplagiata: a polistine wasp society probably lacking permanent reproductive division of labour. Insectes Sociaux, 1993, 40, 69-86.	0.7	17
51	Interrogating an insect society. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10407-10414.	3.3	17
52	Growth ofMycobacterium smegmatis in minimal and complete media. Journal of Biosciences, 1980, 2, 337-348.	0.5	16
53	Unmated queens in the primitively eusocial waspRopalidia marginata (Lep.) (Hymenoptera: Vespidae). Insectes Sociaux, 1991, 38, 213-216.	0.7	16
54	Factors affecting the acceptance of alien conspecifics on nests of the primitively eusocial wasp,Ropalidia marginata (Hymenoptera: Vespidae). Journal of Insect Behavior, 1997, 10, 343-353.	0.4	16

#	Article	IF	Citations
55	Queen signal should be honest to be involved in maintenance of eusociality: chemical correlates of fertility in Ropalidia marginata. Insectes Sociaux, 2012, 59, 251-255.	0.7	16
56	An undersirable property of Hill's diversity indexN 2. Oecologia, 1989, 80, 140-141.	0.9	15
57	Kin recognition in a semi-natural context: Behaviour towards foreign conspecifics in the social waspRopalidia marginata (Lep.) (Hymenoptera: Vespidae). Insectes Sociaux, 1992, 39, 285-299.	0.7	15
58	Nestmateship and body size do not influence mate choice in males and females: A laboratory study of a primitively eusocial wasp Ropalidia marginata. Behavioural Processes, 2010, 85, 42-46.	0.5	15
59	Ovarian developmental variation in the primitively eusocial waspRopalidia marginatasuggests a gateway to worker ontogeny and the evolution of sociality. Journal of Experimental Biology, 2013, 216, 181-7.	0.8	15
60	Regulation of Worker Activity in the Primitively Eusocial Wasp Ropalidia Cyathiformis. Behaviour, 2003, 140, 1219-1234.	0.4	14
61	Homing in a tropical social wasp: role of spatial familiarity, motivation and age. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2017, 203, 915-927.	0.7	14
62	The structure of dominance hierarchies in the primitively eusocial waspRopalidia marginata. Ethology Ecology and Evolution, 2001, 13, 273-281.	0.6	13
63	Road to Royalty â€“ Transition of Potential Queen to Queen in the Primitively Eusocial Wasp <scp>R</scp>opalidia marginata. Ethology, 2012, 118, 694-702.	0.5	13
64	Nestmate discrimination in the social wasp Ropalidia marginata: chemical cues and chemosensory mechanism. Animal Behaviour, 2014, 88, 113-124.	0.8	13
65	Evolution of sex ratios in social hymenoptera: kin selection, local mate competition, polyandry and kin recognition. Journal of Genetics, 1985, 64, 41-58.	0.4	12
66	Open-access more harm than good in developing world. Nature, 2008, 453, 450-450.	13.7	12
67	Clinging to royalty: Ropalidia marginata queens can employ both pheromone and aggression. Insectes Sociaux, 2012, 59, 41-44.	0.7	12
68	Dosage compensation and sex determination inDrosophila: mechanism of measurement of the X/A ratio. Journal of Biosciences, 1982, 4, 377-390.	0.5	11
69	Middle aged wasps mate through most of the year, without regard to body size, ovarian development and nestmateship: a laboratory study of the primitively eusocial wasp Ropalidia marginata. Insectes Sociaux, 2010, 57, 95-103.	0.7	11
70	Natural history and behaviour of the primitively eusocial waspRopalidia marginata(Hymenoptera: Vespidae): a comparison of the two sexes. Journal of Natural History, 2010, 44, 959-968.	0.2	11
71	Virgin wasps develop ovaries on par with mated females, but lay fewer eggs. Insectes Sociaux, 2013, 60, 345-350.	0.7	11
72	Discrimination of nestmate workers and drones in honeybees. Insectes Sociaux, 1994, 41, 335-338.	0.7	10

#	Article	IF	Citations
73	Social mutilation in the Ponerine ant Diacamma: cues originate in the victims. Insectes Sociaux, 2004, 51, 410-413.	0.7	10
74	Altruistic Wasps?. Science, 2011, 333, 833-834.	6.0	10
75	Why do honey bee workers destroy each otherâ€™s eggs?. Journal of Biosciences, 2004, 29, 213-217.	0.5	9
76	Dominance based reproductive queue in the primitively eusocial wasp, Ropalidia cyathiformis. Insectes Sociaux, 2017, 64, 495-503.	0.7	9
77	The birth of ant genomics. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 5477-5478.	3.3	8
78	The Dufourâ€™s gland and the cuticle in the social wasp Ropalidia marginata contain the same hydrocarbons in similar proportions. Journal of Insect Science, 2014, 14, 9.	0.6	8
79	Males and females of the social wasp Ropalidia marginata do not differ in their cuticular hydrocarbon profiles and do not seem to use any long-distance volatile mate attraction cues. Insectes Sociaux, 2015, 62, 281-289.	0.7	8
80	The evolution of communication and the communication of evolution: The case of the honey bee queen pheromone. , 1997, , 375-395.		8
81	A reproductive heir has a central position in multilayer social networks of paper wasps. Animal Behaviour, 2022, 185, 21-36.	0.8	8
82	Social organization in experimentally assembled colonies of Ropalidia marginata : comparison of introduced and natal wasps. Insectes Sociaux, 1997, 44, 139-146.	0.7	7
83	Winnerâ€“loser effects in a eusocial wasp. Insectes Sociaux, 2016, 63, 349-352.	0.7	7
84	To leave or to stay: direct fitness through natural nest foundation in a primitively eusocial wasp. Insectes Sociaux, 2019, 66, 335-342.	0.7	7
85	Nutrition induced direct fitness for workers in a primitively eusocial wasp. Insectes Sociaux, 2021, 68, 319-325.	0.7	7
86	Males, but not females, mate with multiple partners: a laboratory study of a primitively eusocial wasp Ropalidia marginata. Insectes Sociaux, 2012, 59, 61-65.	0.7	6
87	Ovarian development in a primitively eusocial wasp: Social interactions affect behaviorally dominant and subordinate wasps in opposite directions relative to solitary females. Behavioural Processes, 2014, 106, 22-26.	0.5	6
88	Inhibition of DNA injection from myocobacteriophage 13 by tween-80. Virology, 1978, 91, 487-488.	1.1	5
89	Hard working nurses rather than over-aged nurses permit Ropalidia marginata to respond to the loss of young individuals. Insectes Sociaux, 2004, 51, 306.	0.7	5
90	Karyotype instability in the ponerine ant genus Diacamma. Journal of Genetics, 2010, 89, 173-182.	0.4	5

#	Article	IF	Citations
91	Behavioural and morphological dimorphism of the sexes: an account of two primitively eusocial wasps. Journal of Natural History, 2011, 45, 1295-1309.	0.2	5
92	Homing abilities of the tropical primitively eusocial paper wasp Ropalidia marginata. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2015, 201, 795-802.	0.7	5
93	Current indirect fitness and future direct fitness are not incompatible. Biology Letters, 2018, 14, 20170592.	1.0	5
94	A place for everything and everything in its place: spatial organization of individuals on nests of the primitively eusocial waspRopalidia marginata. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191212.	1.2	5
95	Cooperative nest building and brood care by nestmates and non nestmates in Ropalidia marginata â€Š: implications for the evolution of eusociality. Oecologia, 1998, 117, 295-299.	0.9	4
96	How to gain the benefits of sexual reproduction without paying the cost: a worm shows the way. Trends in Ecology and Evolution, 1998, 13, 220-221.	4.2	4
97	Genetic relatedness does not predict the queenâ€™s successors in the primitively eusocial wasp, Ropalidia marginata. Journal of Genetics, 2018, 97, 429-438.	0.4	4
98	The honeybee dance-language controversy. Resonance, 1996, 1, 63-70.	0.2	3
99	Identification of polymorphic microsatellite loci in the queenless, ponerine ant Diacamma ceylonense. Molecular Ecology Notes, 2001, 1, 126-127.	1.7	3
100	Sex...Only If Really Necessary in a Feminine Monarchy. Science, 2004, 306, 1694-1695.	6.0	3
101	Polymorphic microsatellite loci for primitively eusocial wasp Ropalidia marginata. Molecular Ecology Resources, 2009, 9, 1172-1175.	2.2	3
102	A Route to Direct Fitness: Natural and Experimentally Induced Queen Succession in the Tropical Primitively Eusocial Wasp Ropalidia marginata. Journal of Insect Behavior, 2018, 31, 54-65.	0.4	3
103	How to Design Experiments in Animal Behaviour. Resonance, 2018, 23, 1101-1116.	0.2	3
104	Insights and opportunities in insect social behavior. Current Opinion in Insect Science, 2019, 34, ix-xx.	2.2	3
105	Dominance behaviour and division of labour in the tropical primitively eusocial wasp Ropalidia cyathiformis. Insectes Sociaux, 2021, 68, 123-132.	0.7	3
106	The effect of age on non-reproductive division of labour in the tropical primitively eusocial wasp, Ropalidia cyathiformis. International Journal of Developmental Biology, 2020, 64, 267-273.	0.3	3
107	Queen success is correlated with worker-brood genetic relatedness in a primitively eusocial wasp (Ropalidia marginata). Experientia, 1993, 49, 714-717.	1.2	2
108	The language of diversity. Trends in Ecology and Evolution, 1998, 13, 122-123.	4.2	2

#	Article	IF	Citations
109	The origin and resolution of conflicts in animal societies. Resonance, 2000, 5, 62-73.	0.2	2
110	The evolution of complexity in social organizationâ€"A model using dominance-subordinate behavior in two social wasp species. Journal of Theoretical Biology, 2013, 327, 34-44.	0.8	2
111	A Comparative Study of Social Structure in Colonies of Ropalidia. , 2019, , 187-191.		2
112	Queen succession in the Indian paper wasp Ropalidia marginata: On the trail of the potential queen. Journal of Biosciences, 2022, 47, 1.	0.5	2
113	Reply from R. Gadagkar. Trends in Ecology and Evolution, 1994, 9, 103.	4.2	1
114	Red ants with green beards. Journal of Biosciences, 1998, 23, 535-536.	0.5	1
115	The logic of animal conflict. Resonance, 2005, 10, 5-5.	0.2	1
116	Donald Griffin Strove to give animals their due. Resonance, 2005, 10, 3-5.	0.2	1
117	Profile: In love with Ropalidia marginata: 34 years, and still going strong. , 0, , 85-87.		1
118	The Dufour's Gland and the Cuticle in the Social WaspRopalidia marginataContain the Same Hydrocarbons in Similar Proportions. Journal of Insect Science, 2014, 14, 1-18.	0.6	1
119	The â€˜pay-to-publishâ€™ model should be abolished. Notes and Records of the Royal Society, 2016, 70, 403-404.	0.1	1
120	How to Design Experiments in Animal Behaviour. Resonance, 2018, 23, 1243-1257.	0.2	1
121	How to Design Experiments in Animal Behaviour. Resonance, 2019, 24, 1413-1426.	0.2	1
122	Ant, Bee and Wasp Social Evolution. , 2019, , 599-608.		1
123	How to Design Experiments in Animal Behaviour. Resonance, 2020, 25, 817-838.	0.2	1
124	Half a Century of Worship at â€œTataâ€™s Temple of Scienceâ€• Resonance, 2020, 25, 727-733.	0.2	1
125	How to Design Experiments in Animal Behaviour. Resonance, 2021, 26, 105-125.	0.2	1
126	Evidence for bird mafia!. Resonance, 1996, 1, 82-84.	0.2	0

#	Article	IF	Citations
127	Reply from R. Gadagkar. Trends in Ecology and Evolution, 1999, 14, 33.	4.2	0
128	Genomic imprinting. Resonance, 2000, 5, 58-68.	0.2	0
129	The true origin of agriculture: Credit goes to the ants. Resonance, 2000, 5, 76-79.	0.2	0
130	Genetically engineered monogamy in voles lends credence to theModus Operandi of behavioural ecology. Journal of Genetics, 2004, 83, 109-111.	0.4	0
131	John Maynard Smith 6 january 1920â€“19 April 2004. Journal of Biosciences, 2004, 29, 139-141.	0.5	0
132	Ernst Mayr. Journal of Genetics, 2005, 84, 87-89.	0.4	0
133	Rats are nicer than we think, at least to each other. Journal of Biosciences, 2007, 32, 1223-1225.	0.5	0
134	The evolution of culture (or the lack thereof): mapping the conceptual space. Journal of Genetics, 2017, 96, 513-516.	0.4	0
135	Ant, Bee and Wasp Social Evolution â˜†. , 2017, , .		0
136	What Do Ethologists Wish to Know?. Resonance, 2018, 23, 841-843.	0.2	0
137	How to Design Experiments in Animal Behaviour. Resonance, 2018, 23, 871-884.	0.2	0
138	Social Evolution: Does Collapsing Taxonomic Boundaries Produce a Synthetic Theory?A review of Comparative Social Evolution. Edited by Dustin R. Rubenstein and Patrick Abbot. Cambridge and New York: Cambridge University Press. $115.00 (hardcover); $64.99 (paper). xii + 465 p.; ill.; index. ISBN: 978-1-107-04339-8 (hc); 978-1-107-64792-3 (pb). 2017.. Quarterly Review of Biology, 2018, 93, 121-125.	0.0	0
139	How to Design Experiments in Animal Behaviour. Resonance, 2019, 24, 741-753.	0.2	0
140	How to Design Experiments in Animal Behaviour. Resonance, 2019, 24, 995-1014.	0.2	0
141	How to Design Experiments in Animal Behaviour. Resonance, 2019, 24, 875-889.	0.2	0
142	How to Design Experiments in Animal Behaviour. Resonance, 2019, 24, 1087-1107.	0.2	0
143	How to Design Experiments in Animal Behaviour. Resonance, 2019, 24, 1287-1310.	0.2	0
144	How to Design Experiments in Animal Behaviour. Resonance, 2020, 25, 1419-1455.	0.2	0

#	Article	IF	Citations
145	How to Design Experiments in Animal Behaviour. Resonance, 2020, 25, 1595-1629.	0.2	0
146	How to Design Experiments in Animal Behaviour. Resonance, 2020, 25, 1015-1044.	0.2	0
147	How to Design Experiments in Animal Behaviour. Resonance, 2020, 25, 111-131.	0.2	0
148	How to Design Experiments in Animal Behaviour. Resonance, 2020, 25, 269-296.	0.2	0
149	Ropalidia. , 2021, , 771-781.		0
150	The Universe â€“ Which Tools to Understand it. Proceedings of the Indian National Science Academy, 2016, 86, .	0.5	0
151	Indian National Science Academy: Some Challenges Ahead. Proceedings of the Indian National Science Academy Part A, Physical Sciences, 2017, 83, .	0.2	0
152	Ropalidia. , 2019, , 1-11.		0
153	Genetic relatedness does not predict the queen's successors in the primitively eusocial wasp,. Journal of Genetics, 2018, 97, 429-438.	0.4	0
154	Parallel Histories. Inference, 2022, 7, .	0.0	0
155	Bibliophilia: The Father of Modern Ecology. Resonance - Journal of Science Education, 2022, 27, 839-853.	0.2	0