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	A reproductive heir has a central position in multilayer social networks of paper wasps. Animal Behaviour, 2022, 185, 21-36.	0.8	8
2	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
3	Parallel Histories. Inference, 2022, 7, .	0.0	0
4	Bibliophilia: The Father of Modern Ecology. Resonance - Journal of Science Education, 2022, 27, 839-853.	0.2	0
5	How to Design Experiments in Animal Behaviour. Resonance, 2021, 26, 105-125.	0.2	1
6	Dominance behaviour and division of labour in the tropical primitively eusocial wasp Ropalidia cyathiformis. Insectes Sociaux, 2021, 68, 123-132.	0.7	3
7	Ropalidia. , 2021, , 771-781.		0
8	Nutrition induced direct fitness for workers in a primitively eusocial wasp. Insectes Sociaux, 2021, 68, 319-325.	0.7	7
9	How to Design Experiments in Animal Behaviour. Resonance, 2020, 25, 817-838.	0.2	1
10	How to Design Experiments in Animal Behaviour. Resonance, 2020, 25, 1419-1455.	0.2	0
11	How to Design Experiments in Animal Behaviour. Resonance, 2020, 25, 1595-1629.	0.2	0
12	How to Design Experiments in Animal Behaviour. Resonance, 2020, 25, 1015-1044.	0.2	0
13	Half a Century of Worship at â€œTataâ€™s Temple of Scienceâ€• Resonance, 2020, 25, 727-733.	0.2	1
14	How to Design Experiments in Animal Behaviour. Resonance, 2020, 25, 111-131.	0.2	0
15	How to Design Experiments in Animal Behaviour. Resonance, 2020, 25, 269-296.	0.2	0
16	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
17	How to Design Experiments in Animal Behaviour. Resonance, 2019, 24, 741-753.	0.2	0
18	How to Design Experiments in Animal Behaviour. Resonance, 2019, 24, 995-1014.	0.2	0

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19	Insights and opportunities in insect social behavior. Current Opinion in Insect Science, 2019, 34, ix-xx.	2.2	3
20	How to Design Experiments in Animal Behaviour. Resonance, 2019, 24, 875-889.	0.2	0
21	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
22	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
23	How to Design Experiments in Animal Behaviour. Resonance, 2019, 24, 1413-1426.	0.2	1
24	How to Design Experiments in Animal Behaviour. Resonance, 2019, 24, 1087-1107.	0.2	0
25	How to Design Experiments in Animal Behaviour. Resonance, 2019, 24, 1287-1310.	0.2	0
26	Ant, Bee and Wasp Social Evolution. , 2019, , 599-608.		1
27	A Comparative Study of Social Structure in Colonies of Ropalidia. , 2019, , 187-191.		2
28	Ropalidia. , 2019, , 1-11.		0
29	Current indirect fitness and future direct fitness are not incompatible. Biology Letters, 2018, 14, 20170592.	1.0	5
30	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
31	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
32	How to Design Experiments in Animal Behaviour. Resonance, 2018, 23, 1101-1116.	0.2	3
33	What Do Ethologists Wish to Know?. Resonance, 2018, 23, 841-843.	0.2	0
34	How to Design Experiments in Animal Behaviour. Resonance, 2018, 23, 1243-1257.	0.2	1
35	How to Design Experiments in Animal Behaviour. Resonance, 2018, 23, 871-884.	0.2	0
36	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

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37	<scp>WASP</scp>nest: a worldwide assessment of social Polistine nesting behavior. Ecology, 2018, 99, 2405-2405.	1.5	24
38	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
39	Genetic relatedness does not predict the queen's successors in the primitively eusocial wasp,. Journal of Genetics, 2018, 97, 429-438.	0.4	0
40	The evolution of culture (or the lack thereof): mapping the conceptual space. Journal of Genetics, 2017, 96, 513-516.	0.4	0
41	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
42	Dominance based reproductive queue in the primitively eusocial wasp, Ropalidia cyathiformis. Insectes Sociaux, 2017, 64, 495-503.	0.7	9
43	Ant, Bee and Wasp Social Evolution â˜†. , 2017, , .		0
44	Indian National Science Academy: Some Challenges Ahead. Proceedings of the Indian National Science Academy Part A, Physical Sciences, 2017, 83, .	0.2	0
45	The â€˜pay-to-publishâ€™ model should be abolished. Notes and Records of the Royal Society, 2016, 70, 403-404.	0.1	1
46	Winnerâ€“loser effects in a eusocial wasp. Insectes Sociaux, 2016, 63, 349-352.	0.7	7
47	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
48	Evolution of worker policing. Journal of Theoretical Biology, 2016, 399, 103-116.	0.8	19
49	The Universe â€“ Which Tools to Understand it. Proceedings of the Indian National Science Academy, 2016, 86, .	0.5	0
50	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
51	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
52	Nestmate discrimination in the social wasp Ropalidia marginata: chemical cues and chemosensory mechanism. Animal Behaviour, 2014, 88, 113-124.	0.8	13
53	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
54	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

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55	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
56	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
57	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
58	Virgin wasps develop ovaries on par with mated females, but lay fewer eggs. Insectes Sociaux, 2013, 60, 345-350.	0.7	11
59	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
60	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
61	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
62	Clinging to royalty: Ropalidia marginata queens can employ both pheromone and aggression. Insectes Sociaux, 2012, 59, 41-44.	0.7	12
63	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
64	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
65	Altruistic Wasps?. Science, 2011, 333, 833-834.	6.0	10
66	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
67	Can Dufourâ€™s gland compounds honestly signal fertility in the primitively eusocial wasp Ropalidia marginata?. Die Naturwissenschaften, 2011, 98, 157-161.	0.6	26
68	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
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	Karyotype instability in the ponerine ant genus Diacamma. Journal of Genetics, 2010, 89, 173-182.	0.4	5
71	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
72	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

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73	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
74	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
75	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
76	A comparative social network analysis of wasp colonies and classrooms: Linking network structure to functioning. Ecological Complexity, 2009, 6, 48-55.	1.4	26
77	Interrogating an insect society. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10407-10414.	3.3	17
78	Polymorphic microsatellite loci for primitively eusocial wasp Ropalidia marginata. Molecular Ecology Resources, 2009, 9, 1172-1175.	2.2	3
79	Signaling hunger through aggressionâ€"the regulation of foraging in a primitively eusocial wasp. Die Naturwissenschaften, 2008, 95, 677-680.	0.6	24
80	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
81	Open-access more harm than good in developing world. Nature, 2008, 453, 450-450.	13.7	12
82	We know that the wasps â€˜knowâ€™: cryptic successors to the queen inRopalidia marginata. Biology Letters, 2008, 4, 634-637.	1.0	25
83	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
84	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
85	Rats are nicer than we think, at least to each other. Journal of Biosciences, 2007, 32, 1223-1225.	0.5	0
86	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
87	Males of the social wasp Ropalidia marginata can feed larvae, given an opportunity. Animal Behaviour, 2006, 71, 345-350.	0.8	21
88	The logic of animal conflict. Resonance, 2005, 10, 5-5.	0.2	1
89	Ernst Mayr. Journal of Genetics, 2005, 84, 87-89.	0.4	0
90	Donald Griffin Strove to give animals their due. Resonance, 2005, 10, 3-5.	0.2	1

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91	Sex...Only If Really Necessary in a Feminine Monarchy. Science, 2004, 306, 1694-1695.	6.0	3
92	Genetically engineered monogamy in voles lends credence to theModus Operandi of behavioural ecology. Journal of Genetics, 2004, 83, 109-111.	0.4	0
93	Why do honey bee workers destroy each otherâ€™s eggs?. Journal of Biosciences, 2004, 29, 213-217.	0.5	9
94	John Maynard Smith 6 january 1920â€“19 April 2004. Journal of Biosciences, 2004, 29, 139-141.	0.5	0
95	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
96	Social mutilation in the Ponerine ant Diacamma: cues originate in the victims. Insectes Sociaux, 2004, 51, 410-413.	0.7	10
97	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
98	Regulation of Worker Activity in the Primitively Eusocial Wasp Ropalidia Cyathiformis. Behaviour, 2003, 140, 1219-1234.	0.4	14
99	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
100	Docile sitters and active fighters in paper wasps: a tale of two queens. Die Naturwissenschaften, 2002, 89, 176-179.	0.6	27
101	The structure of dominance hierarchies in the primitively eusocial waspRopalidia marginata. Ethology Ecology and Evolution, 2001, 13, 273-281.	0.6	13
102	Identification of polymorphic microsatellite loci in the queenless, ponerine ant Diacamma ceylonense. Molecular Ecology Notes, 2001, 1, 126-127.	1.7	3
103	Genomic imprinting. Resonance, 2000, 5, 58-68.	0.2	0
104	The origin and resolution of conflicts in animal societies. Resonance, 2000, 5, 62-73.	0.2	2
105	The true origin of agriculture: Credit goes to the ants. Resonance, 2000, 5, 76-79.	0.2	0
106	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
107	Reply from R. Gadagkar. Trends in Ecology and Evolution, 1999, 14, 33.	4.2	0
108	Uniform discrimination of pattern orientation by honeybees. Animal Behaviour, 1998, 56, 1391-1398.	0.8	18

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109	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
110	Red ants with green beards. Journal of Biosciences, 1998, 23, 535-536.	0.5	1
111	The role of age in temporal polyethism in a primitively eusocial wasp. Behavioral Ecology and Sociobiology, 1998, 42, 37-47.	0.6	49
112	Division of labor among a cohort of young individuals in a primitively eusocial wasp. Insectes Sociaux, 1998, 45, 247-254.	0.7	18
113	The language of diversity. Trends in Ecology and Evolution, 1998, 13, 122-123.	4.2	2
114	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
115	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
116	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
117	Do Social Wasps Choose Nesting Strategies Based on Their Brood Rearing Abilities?. Die Naturwissenschaften, 1997, 84, 79-82.	0.6	18
118	Social organization in experimentally assembled colonies of Ropalidia marginata : comparison of introduced and natal wasps. Insectes Sociaux, 1997, 44, 139-146.	0.7	7
119	The evolution of communication and the communication of evolution: The case of the honey bee queen pheromone. , 1997, , 375-395.		8
120	The honeybee dance-language controversy. Resonance, 1996, 1, 63-70.	0.2	3
121	Evidence for bird mafia!. Resonance, 1996, 1, 82-84.	0.2	0
122	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
123	Regulation of worker activity in a primitively eusocial wasp, Ropalidia marginata. Behavioral Ecology, 1995, 6, 117-123.	1.0	41
124	Colony founding in the primitively eusocial wasp,Ropalidia marginata(Hymenoptera: Vespidae). Ecological Entomology, 1995, 20, 273-282.	1.1	31
125	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
126	Discrimination of nestmate workers and drones in honeybees. Insectes Sociaux, 1994, 41, 335-338.	0.7	10

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127	Social insects and social amoebae. Journal of Biosciences, 1994, 19, 219-245.	0.5	27
128	Reply from R. Gadagkar. Trends in Ecology and Evolution, 1994, 9, 103.	4.2	1
129	Ropalidia rufoplagiata: a polistine wasp society probably lacking permanent reproductive division of labour. Insectes Sociaux, 1993, 40, 69-86.	0.7	17
130	Queen success is correlated with worker-brood genetic relatedness in a primitively eusocial wasp (Ropalidia marginata). Experientia, 1993, 49, 714-717.	1.2	2
131	Can animals be spiteful?. Trends in Ecology and Evolution, 1993, 8, 232-234.	4.2	30
132	Queen succession in the primitively eusocial tropical waspRopalidia marginata (Lep.) (Hymenoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.4	46
133	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
134	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
135	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
136	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
137	Unmated queens in the primitively eusocial waspRopalidia marginata (Lep.) (Hymenoptera: Vespidae). Insectes Sociaux, 1991, 38, 213-216.	0.7	16
138	Worker-brood genetic relatedness in a primitively eusocial wasp. Die Naturwissenschaften, 1991, 78, 523-526.	0.6	19
139	Behavioural Castes, Dominance and Division of Labour in a Primitively Eusocial Wasp. Ethology, 1991, 87, 269-283.	0.5	49
140	Origin and evolution of eusociality: a perspective from studying primitively eusocial wasps. Journal of Genetics, 1990, 69, 113-125.	0.4	20
141	On reconfirming the evidence for pre-imaginal caste bias in a primitively eusocial wasp. Proceedings: Animal Sciences, 1990, 99, 141-150.	0.0	19
142	An undersirable property of Hill's diversity indexN 2. Oecologia, 1989, 80, 140-141.	0.9	15
143	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
144	Evidence for multiple mating in the primitively eusocial waspRopalidia marginata (Lep.) (Hymenoptera:) Tj ETQq0 0 0 rgBT /Overlock 10	0.4	22

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145	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
146	Evolution of insect socialityâ€"A review of some attempts to test modern theories. Proceedings: Animal Sciences, 1985, 94, 309-324.	0.0	30
147	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
148	Social Organisation in the Indian Wasp Ropalidia cyathiformis (Fab.) (Hymenoptera: Vespidae). Zeitschrift FÃ¼r Tierpsychologie, 1984, 64, 15-32.	0.2	55
149	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
150	Dosage compensation and sex determination inDrosophila: mechanism of measurement of the X/A ratio. Journal of Biosciences, 1982, 4, 377-390.	0.5	11
151	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
152	Bacteriophage burst size during multiple infections. Journal of Biosciences, 1980, 2, 253-259.	0.5	22
153	Growth ofMycobacterium smegmatis in minimal and complete media. Journal of Biosciences, 1980, 2, 337-348.	0.5	16
154	Inhibition of DNA injection from myocobacteriophage 13 by tween-80. Virology, 1978, 91, 487-488.	1.1	5
155	Profile: In love with Ropalidia marginata: 34 years, and still going strong. , 0, , 85-87.		1