

Joachim Ruther

List of Publications by Year in descending order

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108
papers

3,470
citations

117625

34
h-index

182427

51
g-index

116
all docs

116
docs citations

116
times ranked

2545
citing authors

#	ARTICLE	IF	CITATIONS
1	Cumulative effects of sex pheromone components in mate recognition of <i>Muscidifurax raptorellus</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2022, 170, 319-326.	1.4	2
2	Silencing <i>Doublesex</i> expression triggers three-level pheromonal feminization in <i>Nasonia vitripennis</i> males. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20212002.	2.6	3
3	The biological significance of lipogenesis in <i>Nasonia vitripennis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20220208.	2.6	3
4	Pheromone biosynthesis in <i>Nasonia</i> . , 2021, , 237-267.		2
5	Acetone application for administration of bioactive substances has no negative effects on longevity, fitness, and sexual communication in a parasitic wasp. <i>PLoS ONE</i> , 2021, 16, e0245698.	2.5	10
6	Similar Is Not the Same – Mate Recognition in a Parasitoid Wasp. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	7
7	De novo biosynthesis of linoleic acid is widespread in parasitic wasps. <i>Archives of Insect Biochemistry and Physiology</i> , 2021, 107, e21788.	1.5	5
8	Parasitic wasps do not lack lipogenesis. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210548.	2.6	8
9	Age-dependent release of and response to alarm pheromone in a ponerine ant. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	7
10	Cuticular Hydrocarbons as Contact Sex Pheromone in the Parasitoid Wasp <i>Urolepis rufipes</i> . <i>Frontiers in Ecology and Evolution</i> , 2020, 8, .	2.2	21
11	Enantioselective synthesis and determination of the absolute configuration of the male sex pheromone of the parasitoid wasp <i>Urolepis rufipes</i> . <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 3463-3465.	2.8	8
12	De novo biosynthesis of fatty acids from $\hat{1}\pm$ -D-glucose in parasitoid wasps of the <i>Nasonia</i> group. <i>Insect Biochemistry and Molecular Biology</i> , 2019, 115, 103256.	2.7	16
13	Mapping key amino acid residues for the epimerase efficiency and stereospecificity of the sex pheromone biosynthetic short-chain dehydrogenases/reductases of <i>Nasonia</i> . <i>Scientific Reports</i> , 2019, 9, 330.	3.3	3
14	Chemical Ecology of the Parasitoid Wasp Genus <i>Nasonia</i> (Hymenoptera, Pteromalidae). <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	26
15	Functional characterisation of two $\hat{1}\pm$ 12-desaturases demonstrates targeted production of linoleic acid as pheromone precursor in <i>Nasonia</i> . <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	16
16	Semiochemicals Mediating Defense, Intraspecific Competition, and Mate Finding in <i>Leptopilina ryukyuensis</i> and <i>L. japonica</i> (Hymenoptera: Figitidae), Parasitoids of <i>Drosophila</i> . <i>Journal of Chemical Ecology</i> , 2019, 45, 241-252.	1.8	11
17	Male Sex Pheromone of the Parasitoid Wasp <i>Urolepis rufipes</i> Demonstrates Biosynthetic Switch Between Fatty Acid and Isoprenoid Metabolism Within the <i>Nasonia</i> Group. <i>Frontiers in Ecology and Evolution</i> , 2019, 7, .	2.2	14
18	Nitric oxide radicals are emitted by wasp eggs to kill mold fungi. <i>ELife</i> , 2019, 8, .	6.0	19

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19	Interference of chemical defence and sexual communication can shape the evolution of chemical signals. <i>Scientific Reports</i> , 2018, 8, 321.	3.3	12
20	Covariation and phenotypic integration in chemical communication displays: biosynthetic constraints and eco-evolutionary implications. <i>New Phytologist</i> , 2018, 220, 739-749.	7.3	101
21	Development and Evaluation of Push-Pull Control Strategies against <i>Aedes aegypti</i> (Diptera: Culicidae). <i>ACS Symposium Series</i> , 2018, , 187-204.	0.5	2
22	Previous Interspecific Courtship Impairs Female Receptivity to Conspecifics in the Parasitoid Wasp <i>Nasonia longicornis</i> But Not in <i>N. vitripennis</i> . <i>Insects</i> , 2018, 9, 112.	2.2	5
23	The Post-mating Switch in the Pheromone Response of <i>Nasonia</i> Females Is Mediated by Dopamine and Can Be Reversed by Appetitive Learning. <i>Frontiers in Behavioral Neuroscience</i> , 2018, 12, 14.	2.0	25
24	Territoriality and behavioural strategies at the natal host patch differ in two microsympatric <i>Nasonia</i> species. <i>Animal Behaviour</i> , 2018, 143, 113-129.	1.9	14
25	Sublethal doses of imidacloprid disrupt sexual communication and host finding in a parasitoid wasp. <i>Scientific Reports</i> , 2017, 7, 42756.	3.3	64
26	De novo Synthesis of Linoleic Acid in Multiple Collembola Species. <i>Journal of Chemical Ecology</i> , 2017, 43, 911-919.	1.8	22
27	The chemical basis of mate recognition in two parasitoid wasp species of the genus <i>Nasonia</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2017, 164, 1-15.	1.4	21
28	Volatile Organic Compounds of Decaying Piglet Cadavers Perceived by <i>Nicrophorus vespilloides</i> . <i>Journal of Chemical Ecology</i> , 2016, 42, 756-767.	1.8	21
29	Epimerisation of chiral hydroxylactones by short-chain dehydrogenases/reductases accounts for sex pheromone evolution in <i>Nasonia</i> . <i>Scientific Reports</i> , 2016, 6, 34697.	3.3	15
30	A hormone-related female anti-aphrodisiac signals temporary infertility and causes sexual abstinence to synchronize parental care. <i>Nature Communications</i> , 2016, 7, 11035.	12.8	48
31	An insect with a delta-12 desaturase, the jewel wasp <i>Nasonia vitripennis</i> , benefits from nutritional supply with linoleic acid. <i>Die Naturwissenschaften</i> , 2016, 103, 40.	1.6	33
32	Varying importance of cuticular hydrocarbons and iridoids in the species-specific mate recognition pheromones of three closely related <i>Leptopilina</i> species. <i>Frontiers in Ecology and Evolution</i> , 2015, 3, .	2.2	34
33	Evaluation of a Push-Pull Approach for <i>Aedes aegypti</i> (L.) Using a Novel Dispensing System for Spatial Repellents in the Laboratory and in a Semi-Field Environment. <i>PLoS ONE</i> , 2015, 10, e0129878.	2.5	20
34	Species Specificity of the Putative Male Antennal Aphrodisiac Pheromone in <i>Leptopilina heterotoma</i> , <i>Leptopilina bouardi</i> , and <i>Leptopilina victoriae</i> . <i>BioMed Research International</i> , 2015, 2015, 1-6.	1.9	10
35	Solid Phase Micro-extraction (SPME) with In Situ Transesterification: An Easy Method for the Detection of Non-volatile Fatty Acid Derivatives on the Insect Cuticle. <i>Journal of Chemical Ecology</i> , 2015, 41, 584-592.	1.8	8
36	Size Exclusion High Performance Liquid Chromatography: Re-Discovery of a Rapid and Versatile Method for Clean-Up and Fractionation in Chemical Ecology. <i>Journal of Chemical Ecology</i> , 2015, 41, 574-583.	1.8	7

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37	Avoid mistakes when choosing a new home: Nest choice and adoption of <i>Leptothorax</i> ant queens. <i>Journal of Insect Physiology</i> , 2015, 79, 88-95.	2.0	4
38	Behavioural flexibility of the chemical defence in the parasitoid wasp <i>Leptopilina heterotoma</i> . <i>Die Naturwissenschaften</i> , 2015, 102, 67.	1.6	5
39	Nest Etiquette—Where Ants Go When Nature Calls. <i>PLoS ONE</i> , 2015, 10, e0118376.	2.5	18
40	High Chemical Diversity in a Wasp Pheromone: a Blend of Methyl 6-Methylsalicylate, Fatty Alcohol Acetates and Cuticular Hydrocarbons Releases Courtship Behavior in the <i>Drosophila</i> Parasitoid <i>Asobara tabida</i> . <i>Journal of Chemical Ecology</i> , 2014, 40, 159-168.	1.8	19
41	An Oral Male Courtship Pheromone Terminates the Response of <i>Nasonia vitripennis</i> Females to the Male-Produced Sex Attractant. <i>Journal of Chemical Ecology</i> , 2014, 40, 56-62.	1.8	22
42	Pheromone Research—Still Something to Write Home About. <i>Journal of Chemical Ecology</i> , 2014, 40, 215-215.	1.8	0
43	Oleic acid is a precursor of linoleic acid and the male sex pheromone in <i>Nasonia vitripennis</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2014, 51, 33-40.	2.7	45
44	Pheromone Diversification and Age-Dependent Behavioural Plasticity Decrease Interspecific Mating Costs in <i>Nasonia</i> . <i>PLoS ONE</i> , 2014, 9, e89214.	2.5	27
45	A nonspecific defensive compound evolves into a competition avoidance cue and a female sex pheromone. <i>Nature Communications</i> , 2013, 4, 2767.	12.8	51
46	Larvae of the parasitoid wasp <i>Ampulex compressa</i> sanitize their host, the American cockroach, with a blend of antimicrobials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 1369-1374.	7.1	41
47	Behavioural and genetic analyses of <i>Nasonia</i> shed light on the evolution of sex pheromones. <i>Nature</i> , 2013, 494, 345-348.	27.8	110
48	Elucidating Structure-Bioactivity Relationships of Methyl-Branched Alkanes in the Contact Sex Pheromone of the Parasitic Wasp <i>Lariophagus distinguendus</i> . <i>Insects</i> , 2013, 4, 743-760.	2.2	23
49	Laboratory Evaluation Techniques to Investigate the Spatial Potential of Repellents for Push and Pull Mosquito Control Systems. <i>Journal of Medical Entomology</i> , 2012, 49, 1387-1397.	1.8	12
50	Composition of cuticular lipids in the pteromalid wasp <i>Lariophagus distinguendus</i> is host dependent. <i>Bulletin of Entomological Research</i> , 2012, 102, 610-617.	1.0	15
51	Deciphering the signature of cuticular lipids with contact sex pheromone function in a parasitic wasp. <i>Journal of Experimental Biology</i> , 2012, 215, 2471-2478.	1.7	53
52	The composition of carcass volatile profiles in relation to storage time and climate conditions. <i>Forensic Science International</i> , 2012, 223, 64-71.	2.2	53
53	Cuticular lipid profiles of fertile and non-fertile <i>Cardiocondyla</i> ant queens. <i>Journal of Insect Physiology</i> , 2012, 58, 1245-1249.	2.0	8
54	The attraction of virgin female hide beetles (<i>Dermestes maculatus</i>) to cadavers by a combination of decomposition odour and male sex pheromones. <i>Frontiers in Zoology</i> , 2012, 9, 18.	2.0	31

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55	Body size influences male pheromone signals but not the outcome of mating contests in <i>Nasonia vitripennis</i> . <i>Animal Behaviour</i> , 2012, 84, 1557-1563.	1.9	27
56	Stereoselective Chemical Defense in the <i>Drosophila</i> Parasitoid <i>Leptopilina heterotoma</i> is Mediated by (âˆ“) -Iridomyrmecin and (+) -Isoiridomyrmecin. <i>Journal of Chemical Ecology</i> , 2012, 38, 331-339.	1.8	32
57	Cuticular hydrocarbons as contact sex pheromone in the parasitoid <i>Dibrachys cavus</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2011, 140, 59-68.	1.4	49
58	The importance of carcass volatiles as attractants for the hide beetle <i>Dermestes maculatus</i> (De Geer). <i>Forensic Science International</i> , 2011, 212, 173-179.	2.2	58
59	Pheromone Communication in <i>Nasonia vitripennis</i> : Abdominal Sex Attractant Mediates Site Fidelity of Releasing Males. <i>Journal of Chemical Ecology</i> , 2011, 37, 161-165.	1.8	17
60	Structure, chemical composition and putative function of the postpharyngeal gland of the emerald cockroach wasp, <i>Ampulex compressa</i> (Hymenoptera, Ampulicidae). <i>Zoology</i> , 2011, 114, 36-45.	1.2	15
61	How parasitoid females produce sexy sons: a causal link between oviposition preference, dietary lipids and mate choice in <i>Nasonia</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 3286-3293.	2.6	57
62	Behavioural switch in the sex pheromone response of <i>Nasonia vitripennis</i> females is linked to receptivity signalling. <i>Animal Behaviour</i> , 2010, 80, 1035-1040.	1.9	37
63	How important is sex for females of a haplodiploid species under local mate competition?. <i>Behavioral Ecology</i> , 2009, 20, 570-574.	2.2	35
64	Quantity matters: male sex pheromone signals mate quality in the parasitic wasp <i>Nasonia vitripennis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2009, 276, 3303-3310.	2.6	80
65	Mechanism and Behavioral Context of Male Sex Pheromone Release in <i>Nasonia vitripennis</i> . <i>Journal of Chemical Ecology</i> , 2009, 35, 416-421.	1.8	46
66	Olfactory host finding, intermediate memory and its potential ecological adaptation in <i>Nasonia vitripennis</i> . <i>Die Naturwissenschaften</i> , 2009, 96, 383-391.	1.6	34
67	4-Methylquinazoline is a Minor Component of the Male Sex Pheromone in <i>Nasonia vitripennis</i> . <i>Journal of Chemical Ecology</i> , 2008, 34, 99-102.	1.8	50
68	Costs of female odour in males of the parasitic wasp <i>Lariophagus distinguendus</i> (Hymenoptera: Tj ETQq0 0 0 rgBT/Overlock_10 Tf 50 2	1.6	35
69	Mating with spermâ€ depleted males does not increase female mating frequency in the parasitoid <i>Lariophagus distinguendus</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2008, 126, 131-137.	1.4	44
70	An epoxide hydrolase involved in the biosynthesis of an insect sex attractant and its use to localize the production site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8914-8919.	7.1	52
71	A male sex pheromone in a parasitic wasp and control of the behavioral response by the female's mating status. <i>Journal of Experimental Biology</i> , 2007, 210, 2163-2169.	1.7	84
72	Host habitat assessment by a parasitoid using fungal volatiles. <i>Frontiers in Zoology</i> , 2007, 4, 3.	2.0	41

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73	Host-associated kairomones used for habitat orientation in the parasitoid <i>Lariophagus distinguendus</i> (Hymenoptera: Pteromalidae). <i>Journal of Stored Products Research</i> , 2007, 43, 587-593.	2.6	31
74	Courtship Pheromones in Parasitic Wasps: Comparison of Bioactive and Inactive Hydrocarbon Profiles by Multivariate Statistical Methods. <i>Journal of Chemical Ecology</i> , 2007, 33, 825-838.	1.8	39
75	A Male Sex Pheromone in a Scorpionfly. <i>Journal of Chemical Ecology</i> , 2007, 33, 1249-1256.	1.8	18
76	Optimized trap lure for male <i>Melolontha</i> cockchafer. <i>Journal of Applied Entomology</i> , 2006, 130, 171-176.	1.8	13
77	Pre-copulatory isolation in sympatric <i>Melolontha</i> species (Coleoptera: Scarabaeidae). <i>Agricultural and Forest Entomology</i> , 2006, 8, 289-293.	1.3	6
78	Characterization of a Female-Produced Courtship Pheromone in the Parasitoid <i>Nasonia vitripennis</i> . <i>Journal of Chemical Ecology</i> , 2006, 32, 1687-1702.	1.8	102
79	Mating System of the European Hornet <i>Vespa crabro</i> : Male Seeking Strategies and Evidence for the Involvement of a Sex Pheromone. <i>Journal of Chemical Ecology</i> , 2006, 32, 2777-2788.	1.8	24
80	Emission of Herbivore-induced Volatiles in Absence of a Herbivore - Response of <i>Zea mays</i> to Green Leaf Volatiles and Terpenoids. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2005, 60, 743-756.	1.4	46
81	Response of garden chafer, <i>Phyllopertha horticola</i> , to plant volatiles: from screening to application. <i>Entomologia Experimentalis Et Applicata</i> , 2005, 115, 51-59.	1.4	29
82	Electrophysiological and behavioural responses of <i>Melolontha melolontha</i> to saturated and unsaturated aliphatic alcohols. <i>Entomologia Experimentalis Et Applicata</i> , 2005, 115, 33-40.	1.4	23
83	Female sex pheromone in immature insect males – a case of pre-emergence chemical mimicry?. <i>Behavioral Ecology and Sociobiology</i> , 2005, 58, 111-120.	1.4	57
84	Plant – Plant Signaling: Ethylene Synergizes Volatile Emission In <i>Zea mays</i> Induced by Exposure to (Z)-3-Hexen-1-ol. <i>Journal of Chemical Ecology</i> , 2005, 31, 2217-2222.	1.8	171
85	Attraction of garden chafer, <i>Phyllopertha horticola</i> , to floral Japanese beetle lure. <i>Journal of Applied Entomology</i> , 2004, 128, 158-160.	1.8	8
86	Male-biased response of garden chafer, <i>Phyllopertha horticola</i> L., to leaf alcohol and attraction of both sexes to floral plant volatiles. <i>Chemoecology</i> , 2004, 14, 187.	1.1	20
87	(R)-acetoin-female sex pheromone of the summer chafer <i>Amphimallon solstitiale</i> (L.). <i>Journal of Chemical Ecology</i> , 2003, 29, 1045-1050.	1.8	34
88	Specific foraging kairomones used by a generalist parasitoid. <i>Journal of Chemical Ecology</i> , 2003, 29, 131-143.	1.8	28
89	Attraction of forest cockchafer <i>Melolontha hippocastani</i> to (Z)-3-hexen-1-ol and 1,4-benzoquinone: application aspects. <i>Entomologia Experimentalis Et Applicata</i> , 2003, 107, 141-147.	1.4	16
90	Cuticular lipids as trail pheromone in a social wasp. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003, 270, 385-391.	2.6	47

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91	Phenol – Another Cockchafer Attractant Shared by <i>Melolontha hippocastani</i> Fabr. and <i>M. melolontha</i> L.. <i>Zeitschrift Fur Naturforschung - Section C Journal of Biosciences</i> , 2002, 57, 910-913.	1.4	17
92	Plant volatiles in the sexual communication of <i>Melolontha hippocastani</i> : response towards time-dependent bouquets and novel function of (Z)-3-hexen-1-ol as a sexual kairomone. <i>Ecological Entomology</i> , 2002, 27, 76-83.	2.2	65
93	Nestmate recognition in social wasps: manipulation of hydrocarbon profiles induces aggression in the European hornet. <i>Die Naturwissenschaften</i> , 2002, 89, 111-114.	1.6	79
94	Alcoholism in cockchafers: orientation of male <i>Melolontha melolontha</i> towards green leaf alcohols. <i>Die Naturwissenschaften</i> , 2002, 89, 265-269.	1.6	51
95	Rich in phenomena-lacking in terms. A classification of kairomones. <i>Chemoecology</i> , 2002, 12, 161-167.	1.1	92
96	–Allohormones– a new class of bioactive substances or old wine in new skins?. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2002, 188, 161-162.	1.6	3
97	The scent of food and defence: green leaf volatiles and toluquinone as sex attractant mediate mate finding in the European cockchafer <i>Melolontha melolontha</i> . <i>Ecology Letters</i> , 2002, 5, 257-263.	6.4	45
98	Quinones in cockchafers: additional function of a sex attractant as an antimicrobial agent. <i>Chemoecology</i> , 2001, 11, 225-229.	1.1	24
99	Make love not war: a common arthropod defence compound as sex pheromone in the forest cockchafer <i>Melolontha hippocastani</i> . <i>Oecologia</i> , 2001, 128, 44-47.	2.0	56
100	The use of general foraging kairomones in a generalist parasitoid. <i>Oikos</i> , 2001, 95, 78-86.	2.7	23
101	Retention index database for identification of general green leaf volatiles in plants by coupled capillary gas chromatography–mass spectrometry. <i>Journal of Chromatography A</i> , 2000, 890, 313-319.	3.7	103
102	Female-derived sex pheromone mediates courtship behaviour in the parasitoid <i>Lariophagus distinguendus</i> . <i>Entomologia Experimentalis Et Applicata</i> , 2000, 96, 265-274.	1.4	53
103	Title is missing!. <i>Journal of Chemical Ecology</i> , 2000, 26, 1205-1217.	1.8	32
104	Chemicals Used for Host Recognition by the Granary Weevil Parasitoid <i>Lariophagus distinguendus</i> . <i>Journal of Chemical Ecology</i> , 2000, 26, 2665-2675.	1.8	29
105	A Versatile Method for On-Line Analysis of Volatile Compounds from Living Samples. <i>Journal of Chemical Ecology</i> , 1998, 24, 525-534.	1.8	9
106	Response of the pollen beetle <i>Meligethes aeneus</i> to volatiles emitted by intact plants and conspecifics. <i>Entomologia Experimentalis Et Applicata</i> , 1997, 84, 183-188.	1.4	43
107	Analysis of purine compounds and creatinine by ion-pair high-performance liquid chromatography (HPLC) as a method for the detection of yeast extracts in commercial meat flavourings. <i>Zeitschrift Fur Lebensmittel-Untersuchung Und -Forschung</i> , 1994, 199, 307-310.	0.6	3
108	Sulfur-Containing Furans in Commercial Meat Flavorings. <i>Journal of Agricultural and Food Chemistry</i> , 1994, 42, 2254-2259.	5.2	17