

Sandra Steiger

List of Publications by Year in descending order

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Version: 2024-02-01

66
papers

1,929
citations

279798

23
h-index

289244

40
g-index

68
all docs

68
docs citations

68
times ranked

1625
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The origin and dynamic evolution of chemical information transfer. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2011, 278, 970-979. | 2.6 | 156 |
| 2 | The digestive and defensive basis of carcass utilization by the burying beetle and its microbiota. <i>Nature Communications</i> , 2017, 8, 15186. | 12.8 | 112 |
| 3 | Sex, offspring and carcass determine antimicrobial peptide expression in the burying beetle. <i>Scientific Reports</i> , 2016, 6, 25409. | 3.3 | 97 |
| 4 | Bigger mothers are better mothers: disentangling size-related prenatal and postnatal maternal effects. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20131225. | 2.6 | 91 |
| 5 | Microbiome-assisted carrion preservation aids larval development in a burying beetle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11274-11279. | 7.1 | 91 |
| 6 | The smell of parents: breeding status influences cuticular hydrocarbon pattern in the burying beetle <i>Nicrophorus vespilloides</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2007, 274, 2211-2220. | 2.6 | 84 |
| 7 | The Role of Sexual Selection in the Evolution of Chemical Signals in Insects. <i>Insects</i> , 2014, 5, 423-438. | 2.2 | 84 |
| 8 | Unearthing carrion beetles' microbiome: characterization of bacterial and fungal hindgut communities across the <i>Scarabaeidae</i> . <i>Molecular Ecology</i> , 2014, 23, 1251-1267. | 3.9 | 77 |
| 9 | The Coolidge effect, individual recognition and selection for distinctive cuticular signatures in a burying beetle. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2008, 275, 1831-1838. | 2.6 | 75 |
| 10 | Evolutionary origin of insect pheromones. <i>Current Opinion in Insect Science</i> , 2017, 24, 36-42. | 4.4 | 61 |
| 11 | From facultative to obligatory parental care: Interspecific variation in offspring dependency on post-hatching care in burying beetles. <i>Scientific Reports</i> , 2016, 6, 29323. | 3.3 | 50 |
| 12 | Sex differences in immunity and rapid upregulation of immune defence during parental care in the burying beetle, <i>Nicrophorus orbicollis</i> . <i>Functional Ecology</i> , 2011, 25, 1368-1378. | 3.6 | 49 |
| 13 | Cuticular hydrocarbons as a basis for chemosensory self-referencing in crickets: a potentially universal mechanism facilitating polyandry in insects. <i>Ecology Letters</i> , 2013, 16, 346-353. | 6.4 | 49 |
| 14 | Sexual selection on cuticular hydrocarbons of male sagebrush crickets in the wild. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20132353. | 2.6 | 48 |
| 15 | 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 |
| 16 | Beyond species recognition: somatic state affects long-distance sex pheromone communication. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20150832. | 2.6 | 43 |
| 17 | Surface Chemicals Inform about Sex and Breeding Status in the Biparental Burying Beetle <i>Nicrophorus vespilloides</i> . <i>Ethology</i> , 2009, 115, 178-185. | 1.1 | 36 |
| 18 | Acceptance threshold theory can explain occurrence of homosexual behaviour. <i>Biology Letters</i> , 2015, 11, 20140603. | 2.3 | 35 |

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|----|---|-----|-----------|
| 19 | “True” and “untrue” individual recognition: suggestion of a less restrictive definition. <i>Trends in Ecology and Evolution</i> , 2008, 23, 355. | 8.7 | 32 |
| 20 | Correlated changes in breeding status and polyunsaturated cuticular hydrocarbons: the chemical basis of nestmate recognition in the burying beetle <i>Nicrophorus vespilloides</i> ?. <i>Behavioral Ecology and Sociobiology</i> , 2008, 62, 1053-1060. | 1.4 | 31 |
| 21 | Maternal nutritional condition and genetic differentiation affect brood size and offspring body size in <i>Nicrophorus</i> . <i>Zoology</i> , 2007, 110, 360-368. | 1.2 | 30 |
| 22 | Too Fresh Is Unattractive! The Attraction of Newly Emerged <i>Nicrophorus vespilloides</i> Females to Odour Bouquets of Large Cadavers at Various Stages of Decomposition. <i>PLoS ONE</i> , 2013, 8, e58524. | 2.5 | 30 |
| 23 | Function of bacterial community dynamics in the formation of cadaveric semiochemicals during <i>in situ</i> carcass decomposition. <i>Environmental Microbiology</i> , 2017, 19, 3310-3322. | 3.8 | 26 |
| 24 | (E)-Methylgeranate, a chemical signal of juvenile hormone titre and its role in the partner recognition system of burying beetles. <i>Animal Behaviour</i> , 2010, 79, 17-24. | 1.9 | 25 |
| 25 | Dominance status and carcass availability affect the outcome of sperm competition in burying beetles. <i>Behavioral Ecology</i> , 2011, 22, 1079-1087. | 2.2 | 22 |
| 26 | Dominance status and sex influence nutritional state and immunity in burying beetles <i>Nicrophorus orbicollis</i> . <i>Behavioral Ecology</i> , 2012, 23, 1126-1132. | 2.2 | 22 |
| 27 | Staying with the young enhances the fathers’ attractiveness in burying beetles. <i>Evolution; International Journal of Organic Evolution</i> , 2017, 71, 985-994. | 2.3 | 22 |
| 28 | From class-specific to individual discrimination: acceptance threshold changes with risk in the partner recognition system of the burying beetle <i>Nicrophorus vespilloides</i> . <i>Animal Behaviour</i> , 2010, 80, 607-613. | 1.9 | 20 |
| 29 | Species divergence in offspring begging and parental provisioning is linked to nutritional dependency. <i>Behavioral Ecology</i> , 2018, 29, 42-50. | 2.2 | 20 |
| 30 | Beyond Cuticular Hydrocarbons: Chemically Mediated Mate Recognition in the Subsocial Burying Beetle <i>Nicrophorus vespilloides</i> . <i>Journal of Chemical Ecology</i> , 2017, 43, 84-93. | 1.8 | 19 |
| 31 | Adaptive consequences and heritable basis of asynchronous hatching in <i>Nicrophorus vespilloides</i> . <i>Oikos</i> , 2008, 117, 899-907. | 2.7 | 18 |
| 32 | Forest habitat parameters influence abundance and diversity of cadaver-visiting dung beetles in Central Europe. <i>Royal Society Open Science</i> , 2020, 7, 191722. | 2.4 | 18 |
| 33 | Female choice for male cuticular hydrocarbon profile in decorated crickets is not based on similarity to their own profile. <i>Journal of Evolutionary Biology</i> , 2015, 28, 2175-2186. | 1.7 | 17 |
| 34 | Sociality and communicative complexity: insights from the other insect societies. <i>Current Opinion in Insect Science</i> , 2018, 28, 19-25. | 4.4 | 17 |
| 35 | Effects of abiotic environmental factors and land use on the diversity of carrion-visiting silphid beetles (Coleoptera: Silphidae): A large scale carrion study. <i>PLoS ONE</i> , 2018, 13, e0196839. | 2.5 | 17 |
| 36 | The Attraction of the Dung Beetle <i>Anoplotrupes stercorosus</i> (Coleoptera: Geotrupidae) to Volatiles from Vertebrate Cadavers. <i>Insects</i> , 2020, 11, 476. | 2.2 | 17 |

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|----|---|-----|-----------|
| 37 | Multivariate sexual selection on male song structure in wild populations of sagebrush crickets, <i>Cyphoderris strepitans</i> (Orthoptera: Haglidae). <i>Ecology and Evolution</i> , 2013, 3, 3590-3603. | 1.9 | 16 |
| 38 | Self-recognition in crickets via on-line processing. <i>Current Biology</i> , 2014, 24, R1117-R1118. | 3.9 | 15 |
| 39 | Social environment determines degree of chemical signalling. <i>Biology Letters</i> , 2011, 7, 822-824. | 2.3 | 14 |
| 40 | Offspring dependence on parental care and the role of parental transfer of oral fluids in burying beetles. <i>Frontiers in Zoology</i> , 2018, 15, 33. | 2.0 | 14 |
| 41 | When males stop having sex: adaptive insect mating tactics during parental care. <i>Animal Behaviour</i> , 2014, 90, 245-253. | 1.9 | 13 |
| 42 | Dynamic changes in volatile emissions of breeding burying beetles. <i>Physiological Entomology</i> , 2014, 39, 153-164. | 1.5 | 13 |
| 43 | Pheromones involved in insect parental care and family life. <i>Current Opinion in Insect Science</i> , 2017, 24, 89-95. | 4.4 | 13 |
| 44 | Finding a fresh carcass: bacterially derived volatiles and burying beetle search success. <i>Chemoecology</i> , 2020, 30, 287-296. | 1.1 | 13 |
| 45 | Manipulation of parental nutritional condition reveals competition among family members. <i>Journal of Evolutionary Biology</i> , 2018, 31, 822-832. | 1.7 | 12 |
| 46 | Burying Beetle Parents Adaptively Manipulate Information Broadcast from a Microbial Community. <i>American Naturalist</i> , 2021, 197, 366-378. | 2.1 | 12 |
| 47 | New Synthesis – Visual and Chemical Ornaments: What Researchers of Different Signal Modalities Can Learn from Each Other. <i>Journal of Chemical Ecology</i> , 2012, 38, 1-1. | 1.8 | 10 |
| 48 | Variation in sex pheromone emission does not reflect immunocompetence but affects attractiveness of male burying beetles – a combination of laboratory and field experiments. <i>Die Naturwissenschaften</i> , 2017, 104, 53. | 1.6 | 10 |
| 49 | Pheromones Regulating Reproduction in Subsocial Beetles: Insights with References to Eusocial Insects. <i>Journal of Chemical Ecology</i> , 2018, 44, 785-795. | 1.8 | 10 |
| 50 | A Parental Volatile Pheromone Triggers Offspring Begging in a Burying Beetle. <i>iScience</i> , 2019, 19, 1260-1278. | 4.1 | 8 |
| 51 | 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 |
| 52 | Local and Landscape Effects on Carrion-Associated Rove Beetle (Coleoptera: Staphylinidae) Communities in German Forests. <i>Insects</i> , 2020, 11, 828. | 2.2 | 7 |
| 53 | Contribution of males to brood care can compensate for their food consumption from a shared resource. <i>Ecology and Evolution</i> , 2020, 10, 3535-3543. | 1.9 | 7 |
| 54 | Temporal variability of the rove beetle (Coleoptera: Staphylinidae) community on small vertebrate carrion and its potential use for forensic entomology. <i>Forensic Science International</i> , 2021, 323, 110792. | 2.2 | 7 |

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|----|---|-----|-----------|
| 55 | Fitness costs associated with chemical signaling. <i>Communicative and Integrative Biology</i> , 2012, 5, 57-60. | 1.4 | 5 |
| 56 | Recognition and Family Life: Recognition Mechanisms in the Biparental Burying Beetle. , 2015, , 249-266. | | 5 |
| 57 | Access to a carcass, but not mating opportunities, influences paternal care in burying beetles. <i>Behavioral Ecology and Sociobiology</i> , 2017, 71, 1. | 1.4 | 5 |
| 58 | Males benefit personally from family life: evidence from a wild burying beetle population. <i>Behavioral Ecology</i> , 2021, 32, 912-918. | 2.2 | 5 |
| 59 | Differences in sibling cooperation in presence and absence of parental care in a genus with interspecific variation in offspring dependence. <i>Evolution; International Journal of Organic Evolution</i> , 2021, , . | 2.3 | 4 |
| 60 | Why are males more attractive after brood care? Proximate causes of enhanced sex pheromone emission in a burying beetle. <i>Physiological Entomology</i> , 2018, 43, 120-128. | 1.5 | 3 |
| 61 | Divergent coevolutionary trajectories in parent-offspring interactions and discrimination against brood parasites revealed by interspecific cross-fostering. <i>Royal Society Open Science</i> , 2018, 5, 180189. | 2.4 | 3 |
| 62 | Editorial overview: Beyond eusocial insects: studying the other social insects to better understand social evolution. <i>Current Opinion in Insect Science</i> , 2018, 28, vi-viii. | 4.4 | 2 |
| 63 | Parent-offspring conflict and its outcome under uni-and biparental care. <i>Scientific Reports</i> , 2022, 12, 1999. | 3.3 | 2 |
| 64 | A pheromone that coordinates parental care is evolutionary conserved among burying beetles (Silphidae: Nicrophorus). <i>Chemoecology</i> , 2019, 29, 1-9. | 1.1 | 1 |
| 65 | The Impact of Environmental Factors on the Efficacy of Chemical Communication in the Burying Beetle (Coleoptera: Silphidae). <i>Journal of Insect Science</i> , 2020, 20, . | 1.5 | 0 |
| 66 | Sexual Selection of Male Song in Free-Living Sagebrush Crickets, <i>Cyphoderris Strepitans</i> . <i>Annual Report</i> , 0, 33, 125-130. | 0.0 | 0 |