# Martin Kaltenpoth

List of Publications by Year
in descending order

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|---|---|---|---|
| 107<br>papers | 6,605<br>citations | 76031<br>42<br>h-index | 84171<br>75<br>g-index |
| 115<br>all docs | 115<br>docs citations | 115<br>times ranked | 5775<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Beetleâ€"Bacterial Symbioses: Endless Forms Most Functional. Annual Review of Entomology, 2022, 67, 201-219. | 5.7 | 46 |
| 2 | Nutritional symbionts enhance structural defence against predation and fungal infection in a grain pest beetle. Journal of Experimental Biology, 2022, 225, . | 0.8 | 15 |
| 3 | Comparative Morphology of the Symbiont Cultivation Glands in the Antennae of Female Digger Wasps of the Genus Philanthus (Hymenoptera: Crabronidae). Frontiers in Physiology, 2022, 13, 815494. | 1.3 | 4 |
| 4 | Abundance and Localization of Symbiotic Bacterial Communities in the Fly Parasitoid Spalangia cameroni. Applied and Environmental Microbiology, 2022, , e0254921. | 1.4 | 2 |
| 5 | Incipient genome erosion and metabolic streamlining for antibiotic production in a defensive symbiont. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 12 |
| 6 | Biosynthesis of Sinapigladioside, an Antifungal Isothiocyanate from <i>Burkholderia</i> Symbionts. ChemBioChem, 2021, 22, 1920-1924. | 1.3 | 17 |
| 7 | Inhibition of a nutritional endosymbiont by glyphosate abolishes mutualistic benefit on cuticle synthesis in Oryzaephilus surinamensis. Communications Biology, 2021, 4, 554. | 2.0 | 21 |
| 8 | Transposon-insertion Sequencing as a Tool to Elucidate Bacterial Colonization Factors in a <em>Burkholderia gladioli</em> Symbiont of <em>Lagria villosa</em> Beetles. Journal of Visualized Experiments, 2021, , . | 0.2 | 1 |
| 9 | Transmission of Bacterial Symbionts With and Without Genome Erosion Between a Beetle Host and the Plant Environment. Frontiers in Microbiology, 2021, 12, 715601. | 1.5 | 10 |
| 10 | Versatile and Dynamic Symbioses Between Insects and <i>Burkholderia</i> Bacteria. Annual Review of Entomology, 2020, 65, 145-170. | 5.7 | 56 |
| 11 | Minimal fermentative metabolism fuels extracellular symbiont in a leaf beetle. ISME Journal, 2020, 14, 866-870. | 4.4 | 19 |
| 12 | De novo biosynthesis of simple aromatic compounds by an arthropod ( <i>Archegozetes) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td ( | 1.2 | 4 |
| 13 | An endosymbiontâ€™s journey through metamorphosis of its insect host. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 20994-20996. | 3.3 | 5 |
| 14 | Bacterial symbionts support larval sap feeding and adult folivory in (semi-)aquatic reed beetles. Nature Communications, 2020, 11, 2964. | 5.8 | 42 |
| 15 | Honey Bee Suppresses the Parasitic Mite Vitellogenin by Antimicrobial Peptide. Frontiers in Microbiology, 2020, 11, 1037. | 1.5 | 12 |
| 16 | Insectâ€Associated Bacteria Assemble the Antifungal Butenolide Gladiofungin by Nonâ€Canonical Polyketide Chain Termination. Angewandte Chemie, 2020, 132, 23322-23326. | 1.6 | 4 |
| 17 | Effects, interactions, and localization of Rickettsia and Wolbachia in the house fly parasitoid, Spalangia endius. Microbial Ecology, 2020, 80, 718-728. | 1.4 | 13 |
| 18 | Insectâ€Associated Bacteria Assemble the Antifungal Butenolide Gladiofungin by Nonâ€Canonical Polyketide Chain Termination. Angewandte Chemie - International Edition, 2020, 59, 23122-23126. | 7.2 | 30 |

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|---|---|---|---|
| 19 | Microbial symbionts expanding or constraining abiotic niche space in insects. Current Opinion in Insect Science, 2020, 39, 14-20. | 2.2 | 77 |
| 20 | Horizontal Gene Transfer to a Defensive Symbiont with a Reduced Genome in a Multipartite Beetle Microbiome. MBio, 2020, 11, . | 1.8 | 52 |
| 21 | Angiosperm to Gymnosperm hostâ€plant switch entails shifts in microbiota of the <i>Welwitschia</i> bug, <i>Probergrothius angolensis</i> (Distant, 1902). Molecular Ecology, 2019, 28, 5172-5187. | 2.0 | 20 |
| 22 | Symbiont-Driven Male Mating Success in the Neotropical Drosophila paulistorum Superspecies. Behavior Genetics, 2019, 49, 83-98. | 1.4 | 31 |
| 23 | Quantitative PCR primer design affects quantification of dsRNAâ€mediated gene knockdown. Ecology and Evolution, 2019, 9, 8187-8192. | 0.8 | 8 |
| 24 | Selective advantages favour high genomic AT-contents in intracellular elements. PLoS Genetics, 2019, 15, e1007778. | 1.5 | 45 |
| 25 | Make EU trade with Brazil sustainable. Science, 2019, 364, 341-341. | 6.0 | 49 |
| 26 | Established Cotton Stainer Gut Bacterial Mutualists Evade Regulation by Host Antimicrobial Peptides. Applied and Environmental Microbiology, 2019, 85, . | 1.4 | 11 |
| 27 | Abdominal microbial communities in ants depend on colony membership rather than caste and are linked to colony productivity. Ecology and Evolution, 2019, 9, 13450-13467. | 0.8 | 21 |
| 28 | Nitric oxide radicals are emitted by wasp eggs to kill mold fungi. ELife, 2019, 8, . | 2.8 | 19 |
| 29 | Convergent Evolution in Intracellular Elements: Plasmids as Model Endosymbionts. Trends in Microbiology, 2018, 26, 755-768. | 3.5 | 15 |
| 30 | Evolutionary stability of antibiotic protection in a defensive symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E2020-E2029. | 3.3 | 76 |
| 31 | Bacterial communities associated with the ectoparasitic mites Varroa destructor and Tropilaelaps mercedesae of the honey bee (Apis mellifera). FEMS Microbiology Ecology, 2018, 94, . | 1.3 | 13 |
| 32 | Influence of microbial symbionts on insect pheromones. Natural Product Reports, 2018, 35, 386-397. | 5.2 | 72 |
| 33 | Burying beetles regulate the microbiome of carcasses and use it to transmit a core microbiota to their offspring. Molecular Ecology, 2018, 27, 1980-1991. | 2.0 | 71 |
| 34 | Ancient symbiosis confers desiccation resistance to stored grain pest beetles. Molecular Ecology, 2018, 27, 2095-2108. | 2.0 | 67 |
| 35 | Effect of antibiotic treatment and gamma-irradiation on cuticular hydrocarbon profiles and mate choice in tsetse flies (Glossina m. morsitans). BMC Microbiology, 2018, 18, 145. | 1.3 | 17 |
| 36 | Microbiome-assisted carrion preservation aids larval development in a burying beetle. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 11274-11279. | 3.3 | 91 |

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|---|---|---|---|
| 37 | Unexpected Bacterial Origin of the Antibiotic Icosalide: Two-Tailed Depsipeptide Assembly in Multifarious <i>Burkholderia</i> Symbionts. ACS Chemical Biology, 2018, 13, 2414-2420. | 1.6 | 58 |
| 38 | Transmission of mutualistic bacteria in social and gregarious insects. Current Opinion in Insect Science, 2018, 28, 50-58. | 2.2 | 61 |
| 39 | The cotton stainer's gut microbiota suppresses infection of a cotransmitted trypanosomatid parasite. Molecular Ecology, 2018, 27, 3408-3419. | 2.0 | 21 |
| 40 | An antifungal polyketide associated with horizontally acquired genes supports symbiont-mediated defense in Lagria villosa beetles. Nature Communications, 2018, 9, 2478. | 5.8 | 86 |
| 41 | Bacterial Symbionts in Lepidoptera: Their Diversity, Transmission, and Impact on the Host. Frontiers in Microbiology, 2018, 9, 556. | 1.5 | 243 |
| 42 | Antibiotic-producing symbionts dynamically transition between plant pathogenicity and insect-defensive mutualism. Nature Communications, 2017, 8, 15172. | 5.8 | 152 |
| 43 | The digestive and defensive basis of carcass utilization by the burying beetle and its microbiota. Nature Communications, 2017, 8, 15186. | 5.8 | 112 |
| 44 | Gut microbiota of the pine weevil degrades conifer diterpenes and increases insect fitness. Molecular Ecology, 2017, 26, 4099-4110. | 2.0 | 143 |
| 45 | Symbiont Acquisition and Replacement as a Source of Ecological Innovation. Trends in Microbiology, 2017, 25, 375-390. | 3.5 | 244 |
| 46 | Symbiont dynamics and strain diversity in the defensive mutualism between <i>Lagria</i> beetles and <i>Burkholderia</i>. Environmental Microbiology, 2017, 19, 3674-3688. | 1.8 | 42 |
| 47 | Drastic Genome Reduction in an Herbivoreâ€™s Pectinolytic Symbiont. Cell, 2017, 171, 1520-1531.e13. | 13.5 | 148 |
| 48 | Sex ratio of mirid populations shifts in response to hostplant coâ€infestation or altered cytokinin signaling. Journal of Integrative Plant Biology, 2017, 59, 44-59. | 4.1 | 14 |
| 49 | Bacterial Community and PHB-Accumulating Bacteria Associated with the Wall and Specialized Niches of the Hindgut of the Forest Cockchafer (Melolontha hippocastani). Frontiers in Microbiology, 2017, 8, 291. | 1.5 | 24 |
| 50 | Infection of Soybean Plants with the Insect Bacterial Symbiont Burkholderia gladioli and Evaluation of Plant Fitness. Bio-protocol, 2017, 7, e2663. | 0.2 | 0 |
| 51 | Bacteriome-Localized Intracellular Symbionts in Pollen-Feeding Beetles of the Genus Dasytes (Coleoptera, Dasytidae). Frontiers in Microbiology, 2016, 7, 1486. | 1.5 | 26 |
| 52 | Microbial Communities of Lycaenid Butterflies Do Not Correlate with Larval Diet. Frontiers in Microbiology, 2016, 7, 1920. | 1.5 | 75 |
| 53 | The gut microbiota of the pine weevil is similar across Europe and resembles that of other coniferâ€feeding beetles. Molecular Ecology, 2016, 25, 4014-4031. | 2.0 | 75 |
| 54 | Chemical parameters and bacterial communities associated with larval habitats of Anopheles, Culex and Aedes mosquitoes (Diptera: Culicidae) in western Kenya. International Journal of Tropical Insect Science, 2016, 36, 146-160. | 0.4 | 27 |

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|---|---|---|---|
| 55 | Potential applications of insect symbionts in biotechnology. Applied Microbiology and Biotechnology, 2016, 100, 1567-1577. | 1.7 | 132 |
| 56 | Bacterial and fungal symbionts of parasitic<i>Dendroctonus</i>bark beetles. FEMS Microbiology Ecology, 2016, 92, fiw129. | 1.3 | 36 |
| 57 | Symbiotic Streptomyces Provide Antifungal Defense in Solitary Wasps. Advances in Environmental Microbiology, 2016, , 207-238. | 0.1 | 2 |
| 58 | A novel intracellular mutualistic bacterium in the invasive ant <i>Cardiocondyla obscurior</i>. ISME Journal, 2016, 10, 376-388. | 4.4 | 67 |
| 59 | Linking metabolite production to taxonomic identity in environmental samples by (MA)LDI-FISH. ISME Journal, 2016, 10, 527-531. | 4.4 | 32 |
| 60 | Variability of Bacterial Communities in the Moth Heliothis virescens Indicates Transient Association with the Host. PLoS ONE, 2016, 11, e0154514. | 1.1 | 89 |
| 61 | Comparative morphology of the postpharyngeal gland in the Philanthinae (Hymenoptera, Crabronidae) and the evolution of an antimicrobial brood protection mechanism. BMC Evolutionary Biology, 2015, 15, 291. | 3.2 | 7 |
| 62 | Evolutionary transition in symbiotic syndromes enabled diversification of phytophagous insects on an imbalanced diet. ISME Journal, 2015, 9, 2587-2604. | 4.4 | 63 |
| 63 | Symbiont transmission entails the risk of parasite infection. Biology Letters, 2015, 11, 20150840. | 1.0 | 27 |
| 64 | Defensive symbioses of animals with prokaryotic and eukaryotic microorganisms. Natural Product Reports, 2015, 32, 904-936. | 5.2 | 329 |
| 65 | An out-of-body experience: the extracellular dimension for the transmission of mutualistic bacteria in insects. Proceedings of the Royal Society B: Biological Sciences, 2015, 282, 20142957. | 1.2 | 222 |
| 66 | Microbial Communities of Three Sympatric Australian Stingless Bee Species. PLoS ONE, 2014, 9, e105718. | 1.1 | 56 |
| 67 | Transcriptomic Immune Response of the Cotton Stainer Dysdercus fasciatus to Experimental Elimination of Vitamin-Supplementing Intestinal Symbionts. PLoS ONE, 2014, 9, e114865. | 1.1 | 18 |
| 68 | The composition of cuticular compounds indicates body parts, sex and age in the model butterfly Bicyclus anynana (Lepidoptera). Frontiers in Ecology and Evolution, 2014, 2, . | 1.1 | 29 |
| 69 | Vitamin supplementation by gut symbionts ensures metabolic homeostasis in an insect host. Proceedings of the Royal Society B: Biological Sciences, 2014, 281, 20141838. | 1.2 | 132 |
| 70 | Biogeography of a defensive symbiosis. Communicative and Integrative Biology, 2014, 7, e993265. | 0.6 | 5 |
| 71 | Defensive microbial symbionts in <scp>H</scp>ymenoptera. Functional Ecology, 2014, 28, 315-327. | 1.7 | 127 |
| 72 | Unearthing carrion beetles' microbiome: characterization of bacterial and fungal hindgut communities across the <scp>S</scp>ilphidae. Molecular Ecology, 2014, 23, 1251-1267. | 2.0 | 77 |

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| --- | --- | --- | --- |
| 73 | New Synthesis: The Chemistry of Partner Choice in Insect-Microbe Mutualisms. Journal of Chemical Ecology, 2014, 40, 99-99. | 0.9 | 22 |
| 74 | What makes you a potential partner? Insights from convergently evolved antâ€“ant symbioses. Chemoecology, 2014, 24, 105-119. | 0.6 | 19 |
| 75 | Mutualistic ants as an indirect defence against leaf pathogens. New Phytologist, 2014, 202, 640-650. | 3.5 | 42 |
| 76 | Partner choice and fidelity stabilize coevolution in a Cretaceous-age defensive symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 6359-6364. | 3.3 | 111 |
| 77 | Cultivation reveals physiological diversity among defensive â€˜Streptomyces philanthiâ€™ symbionts of beewolf digger wasps (Hymenoptera, Crabronidae). BMC Microbiology, 2014, 14, 202. | 1.3 | 25 |
| 78 | Dynamics of symbiont-mediated antibiotic production reveal efficient long-term protection for beewolf offspring. Frontiers in Zoology, 2013, 10, 3. | 0.9 | 40 |
| 79 | Maternal and Environmental Effects on Symbiont-Mediated Antimicrobial Defense. Journal of Chemical Ecology, 2013, 39, 978-988. | 0.9 | 16 |
| 80 | Worker self-restraint and policing maintain the queenâ€™s reproductive monopoly in a pseudomyrmecine ant. Behavioral Ecology and Sociobiology, 2013, 67, 571-581. | 0.6 | 4 |
| 81 | Role of Symbiotic Bacteria in the Growth and Development of the Sunn Pest,<i>Eurygaster integriceps</i>. Journal of Insect Science, 2013, 13, 1-12. | 0.9 | 31 |
| 82 | <scp>A</scp>ctinobacteria as essential symbionts in firebugs and cotton stainers (<scp>H</scp>emiptera, <scp>P</scp>yrrhocoridae). Environmental Microbiology, 2013, 15, 1956-1968. | 1.8 | 110 |
| 83 | Morphology, Chemistry and Function of the Postpharyngeal Gland in the South American Digger Wasps Trachypus boharti and Trachypus elongatus. PLoS ONE, 2013, 8, e82780. | 1.1 | 11 |
| 84 | Refining the Roots of the Beewolf-Streptomyces Symbiosis: Antennal Symbionts in the Rare Genus Philanthinus (Hymenoptera, Crabronidae). Applied and Environmental Microbiology, 2012, 78, 822-827. | 1.4 | 60 |
| 85 | Geographical and ecological stability of the symbiotic midâ€gut microbiota in <scp>E</scp>uropean firebugs, <i><scp>P</scp>yrrhocoris apterus</i> (<scp>H</scp>emiptera, <scp>P</scp>yrrhocoridae). Molecular Ecology, 2012, 21, 6134-6151. | 2.0 | 121 |
| 86 | Cuticular Hydrocarbons of the South American Fruit Fly Anastrepha fraterculus: Variability with Sex and Age. Journal of Chemical Ecology, 2012, 38, 1133-1142. | 0.9 | 40 |
| 87 | Accelerated Evolution of Mitochondrial but Not Nuclear Genomes of Hymenoptera: New Evidence from Crabronid Wasps. PLoS ONE, 2012, 7, e32826. | 1.1 | 55 |
| 88 | <i>Streptomyces</i>as symbionts: an emerging and widespread theme?. FEMS Microbiology Reviews, 2012, 36, 862-876. | 3.9 | 365 |
| 89 | Honeybees and bumblebees share similar bacterial symbionts. Molecular Ecology, 2011, 20, 439-440. | 2.0 | 7 |
| 90 | Rapid Identification of Insect Cuticular Hydrocarbons Using Gas Chromatographyâ€"Ion-Trap Mass Spectrometry. Journal of Chemical Ecology, 2011, 37, 420-427. | 0.9 | 19 |

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|---|---|---|---|
| 91 | Is the postpharyngeal gland of a solitary digger wasp homologous to ants? Evidence from chemistry and physiology. Insectes Sociaux, 2010, 57, 285-291. | 0.7 | 17 |
| 92 | Life cycle and population dynamics of a protective insect symbiont reveal severe bottlenecks during vertical transmission. Evolutionary Ecology, 2010, 24, 463-477. | 0.5 | 56 |
| 93 | Symbiotic streptomycetes provide antibiotic combination prophylaxis for wasp offspring. Nature Chemical Biology, 2010, 6, 261-263. | 3.9 | 323 |
| 94 | Larval Rearing Temperature Influences Amount and Composition of the Marking Pheromone of the Male Beewolf,Philanthus triangulum. Journal of Insect Science, 2010, 10, 1-16. | 0.6 | 11 |
| 95 | Symbiotic streptomycetes in antennal glands of the South American digger wasp genus Trachypus (Hymenoptera, Crabronidae). Physiological Entomology, 2010, 35, 196-200. | 0.6 | 37 |
| 96 | Hydrocarbons in the antennal gland secretion of female European beewolves, Philanthus triangulum (Hymenoptera, Crabronidae). Chemoecology, 2009, 19, 219-225. | 0.6 | 10 |
| 97 | Localization and transmission route of Coriobacterium glomerans, the endosymbiont of pyrrhocorid bugs. FEMS Microbiology Ecology, 2009, 69, 373-383. | 1.3 | 101 |
| 98 | Actinobacteria as mutualists: general healthcare for insects?. Trends in Microbiology, 2009, 17, 529-535. | 3.5 | 238 |
| 99 | The Chemistry of the Postpharyngeal Gland of Female European Beewolves. Journal of Chemical Ecology, 2008, 34, 575-583. | 0.9 | 25 |
| 100 | The odor of origin: kinship and geographical distance are reflected in the marking pheromone of male beewolves (Philanthus triangulum F., Hymenoptera, Crabronidae). BMC Ecology, 2007, 7, 11. | 3.0 | 5 |
| 101 | Morphology and ultrastructure of a bacteria cultivation organ: The antennal glands of female European beewolves, Philanthus triangulum (Hymenoptera, Crabronidae). Arthropod Structure and Development, 2007, 36, 1-9. | 0.8 | 49 |
| 102 | The scent of senescence: Age-dependent changes in the composition of the cephalic gland secretion of the male European beewolf, Philanthus triangulum. Journal of Insect Science, 2006, 6, 1-9. | 0.6 | 12 |
| 103 | â€˜Candidatus Streptomyces philanthiâ€™, an endosymbiotic streptomycete in the antennae of Philanthus digger wasps. International Journal of Systematic and Evolutionary Microbiology, 2006, 56, 1403-1411. | 0.8 | 124 |
| 104 | Symbiotic Bacteria Protect Wasp Larvae from Fungal Infestation. Current Biology, 2005, 15, 475-479. | 1.8 | 408 |
| 105 | Symbiotic Bacteria Protect Wasp Larvae from Fungal Infestation. Current Biology, 2005, 15, 882. | 1.8 | 6 |
| 106 | Lebensweise und Morphometrie der Chinesischen Gottesanbeterin Tenodera aridifolia sinensis (Blattopteroidea: Mantodea). Entomologia Generalis, 2005, 28, 1-16. | 1.1 | 7 |
| 107 | Polymorphic microsatellite markers for a solitary digger wasp, the European beewolf (Philanthus) Tj ETQq1 1 0.784314 rgBT /Overlock 1 | 1.7 | 1 |