

# Matthias Albrecht

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

4,791  
citations

159585

30  
h-index

168389

53  
g-index

54  
all docs

54  
docs citations

54  
times ranked

4609  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | A global synthesis reveals biodiversity-mediated benefits for crop production. <i>Science Advances</i> , 2019, 5, eaax0121.  | 10.3 | 524       |
| 2  | Crop pests and predators exhibit inconsistent responses to surrounding landscape composition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7863-E7870.                   | 7.1  | 401       |
| 3  | The worldwide importance of honey bees as pollinators in natural habitats. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20172140.   | 2.6  | 364       |
| 4  | The interplay of landscape composition and configuration: new pathways to manage functional biodiversity and agroecosystem services across Europe. <i>Ecology Letters</i> , 2019, 22, 1083-1094.                                 | 6.4  | 364       |
| 5  | The effectiveness of flower strips and hedgerows on pest control, pollination services and crop yield: a quantitative synthesis. <i>Ecology Letters</i> , 2020, 23, 1488-1498.   | 6.4  | 319       |
| 6  | Specialization of Mutualistic Interaction Networks Decreases toward Tropical Latitudes. <i>Current Biology</i> , 2012, 22, 1925-1931.  | 3.9  | 290       |
| 7  | Diverse pollinator communities enhance plant reproductive success. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 4845-4852.  | 2.6  | 193       |
| 8  | The Swiss agri-environment scheme enhances pollinator diversity and plant reproductive success in nearby intensively managed farmland. <i>Journal of Applied Ecology</i> , 2007, 44, 813-822.                                    | 4.0  | 179       |
| 9  | High effectiveness of tailored flower strips in reducing pests and crop plant damage. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20151369.  | 2.6  | 155       |
| 10 | Perennial, species-rich wildflower strips enhance pest control and crop yield. <i>Agriculture, Ecosystems and Environment</i> , 2016, 220, 97-103.   | 5.3  | 155       |
| 11 | Tailored flower strips promote natural enemy biodiversity and pest control in potato crops. <i>Journal of Applied Ecology</i> , 2016, 53, 1169-1176.   | 4.0  | 143       |
| 12 | Interaction diversity within quantified insect food webs in restored and adjacent intensively managed meadows. <i>Journal of Animal Ecology</i> , 2007, 76, 1015-1025.   | 2.8  | 134       |
| 13 | Enhancing plant diversity in agricultural landscapes promotes both rare bees and dominant crop-pollinating bees through complementary increase in key floral resources. <i>Journal of Applied Ecology</i> , 2017, 54, 1856-1864. | 4.0  | 113       |
| 14 | Plant-pollinator network assembly along the chronosequence of a glacier foreland. <i>Oikos</i> , 2010, 119, 1610-1624.   | 2.7  | 106       |
| 15 | Consequences of plant invasions on compartmentalization and species' roles in plant-pollinator networks. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140773.                                   | 2.6  | 100       |
| 16 | Landscape greening and local creation of wildflower strips and hedgerows promote multiple ecosystem services. <i>Journal of Applied Ecology</i> , 2018, 55, 612-620.   | 4.0  | 80        |
| 17 | A critical analysis of the potential for EU Common Agricultural Policy measures to support wild pollinators on farmland. <i>Journal of Applied Ecology</i> , 2020, 57, 681-694.  | 4.0  | 77        |
| 18 | The potential of different semi-natural habitats to sustain pollinators and natural enemies in European agricultural landscapes. <i>Agriculture, Ecosystems and Environment</i> , 2019, 279, 43-52.                              | 5.3  | 71        |

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|----|--|------|-----------|
| 19 | Pollinator size and its consequences: Robust estimates of body size in pollinating insects. <i>Ecology and Evolution</i> , 2019, 9, 1702-1714.   | 1.9  | 69        |
| 20 | Effects of ecological compensation meadows on arthropod diversity in adjacent intensively managed grassland. <i>Biological Conservation</i> , 2010, 143, 642-649.  | 4.1  | 66        |
| 21 | Sown wildflower strips as overwintering habitat for arthropods: Effective measure or ecological trap?. <i>Agriculture, Ecosystems and Environment</i> , 2019, 275, 123-131.  | 5.3  | 66        |
| 22 | Seasonal shifts and complementary use of pollen sources by two bees, a lacewing and a ladybeetle species in European agricultural landscapes. <i>Journal of Applied Ecology</i> , 2019, 56, 2431-2442.                 | 4.0  | 65        |
| 23 | Synergistic interactions of ecosystem services: florivorous pest control boosts crop yield increase through insect pollination. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20152529.  | 2.6  | 60        |
| 24 | Both woody and herbaceous semi-natural habitats are essential for spider overwintering in European farmland. <i>Agriculture, Ecosystems and Environment</i> , 2018, 267, 141-146.                                      | 5.3  | 49        |
| 25 | Landscape complexity promotes hoverflies across different types of semi-natural habitats in farmland. <i>Journal of Applied Ecology</i> , 2018, 55, 1747-1758.   | 4.0  | 47        |
| 26 | Fungicide and insecticide exposure adversely impacts bumblebees and pollination services under semi-field conditions. <i>Environment International</i> , 2021, 157, 106813.  | 10.0 | 45        |
| 27 | A pan-European model of landscape potential to support natural pest control services. <i>Ecological Indicators</i> , 2018, 90, 653-664.  | 6.3  | 44        |
| 28 | Wild insect diversity increases inter-annual stability in global crop pollinator communities. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20210212.                                    | 2.6  | 43        |
| 29 | Pathways for Novel Epidemiology: Plant-Pollinator-Pathogen Networks and Global Change. <i>Trends in Ecology and Evolution</i> , 2021, 36, 623-636.   | 8.7  | 41        |
| 30 | Pollinator-mediated impacts of alien invasive plants on the pollination of native plants: the role of spatial scale and distinct behaviour among pollinator guilds. <i>Biological Invasions</i> , 2016, 18, 1801-1812. | 2.4  | 40        |
| 31 | Trypanosomatid parasites infecting managed honeybees and wild solitary bees. <i>International Journal for Parasitology</i> , 2019, 49, 605-613.  | 3.1  | 36        |
| 32 | Wildflower strips enhance wild bee reproductive success. <i>Journal of Applied Ecology</i> , 2021, 58, 486-495.  | 4.0  | 33        |
| 33 | Wildflower strips enhance pollination in adjacent strawberry crops at the small scale. <i>Ecology and Evolution</i> , 2018, 8, 11775-11784.  | 1.9  | 32        |
| 34 | Restoring pollinator communities and pollination services in hedgerows in intensively managed agricultural landscapes. , 2019, , 163-185.  |      | 30        |
| 35 | Evaluating next-generation sequencing (NGS) methods for routine monitoring of wild bees: Metabarcoding, mitogenomics or NGS barcoding. <i>Molecular Ecology Resources</i> , 2019, 19, 847-862.                         | 4.8  | 26        |
| 36 | Sulfoxaflo insecticide and azoxystrobin fungicide have no major impact on honeybees in a realistic-exposure semi-field experiment. <i>Science of the Total Environment</i> , 2021, 778, 146084.                        | 8.0  | 26        |

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|----|---|------|-----------|
| 37 | Time since establishment drives bee and hoverfly diversity, abundance of crop-pollinating bees and aphidophagous hoverflies in perennial wildflower strips. <i>Basic and Applied Ecology</i> , 2021, 57, 102-114.               | 2.7  | 23        |
| 38 | Overwintering of pollen beetles and their predators in oilseed rape and semi-natural habitats. <i>Agriculture, Ecosystems and Environment</i> , 2018, 265, 275-281.   | 5.3  | 21        |
| 39 | <sc>CropPol</sc>: A dynamic, open and global database on crop pollination. <i>Ecology</i> , 2022, 103, e3614.   | 3.2  | 19        |
| 40 | Flowering resources modulate the sensitivity of bumblebees to a common fungicide. <i>Science of the Total Environment</i> , 2022, 829, 154450.  | 8.0  | 19        |
| 41 | The neonicotinoid thiamethoxam impairs male fertility in solitary bees, <i>Osmia cornuta</i> . <i>Environmental Pollution</i> , 2021, 284, 117106.  | 7.5  | 16        |
| 42 | Flower Mapping in Grasslands With Drones and Deep Learning. <i>Frontiers in Plant Science</i> , 2021, 12, 774965.   | 3.6  | 12        |
| 43 | Not every sperm counts: Male fertility in solitary bees, <i>Osmia cornuta</i> . <i>PLoS ONE</i> , 2019, 14, e0214597.   | 2.5  | 11        |
| 44 | Does a giant tortoise taxon substitute enhance seed germination of exotic fleshy-fruited plants?. <i>Journal of Plant Ecology</i> , 2013, 6, 57-63.   | 2.3  | 10        |
| 45 | Using Temporally Resolved Floral Resource Maps to Explain Bumblebee Colony Performance in Agricultural Landscapes. <i>Agronomy</i> , 2020, 10, 1993.  | 3.0  | 10        |
| 46 | Do pesticide and pathogen interactions drive wild bee declines?. <i>International Journal for Parasitology: Parasites and Wildlife</i> , 2022, 18, 232-243.   | 1.5  | 10        |
| 47 | Comparing floral resource maps and land cover maps to predict predators and aphid suppression on field bean. <i>Landscape Ecology</i> , 2022, 37, 431-441.  | 4.2  | 9         |
| 48 | Ingestion by an endemic frugivore enhances seed germination of endemic plant species but decreases seedling survival of exotics. <i>Journal of Biogeography</i> , 2012, 39, 2021-2030.  | 3.0  | 8         |
| 49 | No impact of neonicotinoids on male solitary bees <i>Osmia cornuta</i> under semi-field conditions. <i>Physiological Entomology</i> , 2021, 46, 105-109.  | 1.5  | 8         |
| 50 | No evidence for impaired solitary bee fitness following pre-flowering sulfoxaflor application alone or in combination with a common fungicide in a semi-field experiment. <i>Environment International</i> , 2022, 164, 107252. | 10.0 | 8         |
| 51 | A short note on extreme sex ratio in solitary bees <i>Osmia cornuta</i> in semi-field trials testing the impact of neonicotinoids. <i>Journal of Apicultural Research</i> , 2019, 58, 469-470.                                  | 1.5  | 7         |
| 52 | Insights into aphid prey consumption by ladybirds: Optimising field sampling methods and primer design for high throughput sequencing. <i>PLoS ONE</i> , 2020, 15, e0235054.  | 2.5  | 7         |
| 53 | Effects of temporal floral resource availability and non-crop habitats on broad bean pollination. <i>Landscape Ecology</i> , 2022, 37, 1573-1586.   | 4.2  | 4         |
| 54 | Bee Tracker – an open-source machine learning-based video analysis software for the assessment of nesting and foraging performance of cavity-nesting solitary bees. <i>Ecology and Evolution</i> , 2022, 12, e8575.             | 1.9  | 3         |