

BUILDING THE EVIDENCE BASE: POLLINATOR RESEARCH PUBLICATIONS

The following are pollinator publications by Irish researchers from 2016-2022. These scientists are part of the Irish Pollinator Research Network. Their work helps underpin the All-Ireland Pollinator Plan.

- Russo, L., Fitzpatrick, Ú., Larkin, M., Mullen, S., Power, E., Stanley, D., White, C., O'Rourke, A., & Stout, J. C. (2022). [Conserving diversity in Irish plant–pollinator networks](#). *Ecology and Evolution*, 12, e9347
- Thompson LJ, Smith S, Stout J, White B, Zioga E, Stanley D. (2022) [Bumblebees can be exposed to the herbicide glyphosate when foraging](#). *Environmental Toxicology and Chemistry*.
- Hodge S, Schweiger O, Klein A-M, Potts SG, Costa C, Albrecht M, de Miranda J, Mand M, De la Rúa P, Rundlöf M, Attridge E, Dean R, Bulet P, Michez D, Paxton RJ, Babin A, Chauzat M-P, Cougoule N, Laurent M, Martel A-C, Paris L, Rivière M-P, Dubois E, Arafah K, Askri D, Voison SN, Kiljanek T, Bottero I, Dominik C, Tamburini G, Pereira-Peixoto MH, Wintermantel D, Breeze TD, Cini E, Senapathi D, de Prisco G, Medrzycki P, Hagenbucher S, Knauer A, Schwarz JM, Raimets R, Martínez-López V, Ivarsson K, Hartfield C, Brown MJF, Stout JC. (2022) [Design and planning of a transdisciplinary investigation into farmland pollinators: rationale, co-design, and lessons learned](#). *Sustainability*
- White, C.D., Collier, M.J., Stout, J.C. (2022) [Anthropogenic Induced Beta Diversity in Plant–Pollinator Networks: Dissimilarity, Turnover, and Predictive Power](#). *Frontiers in Ecology and Evolution*, 2022, 10, 806615
- Hodge S, Bottero I, Dean R, Maher S, Stout JC. [Stem-nesting Hymenoptera in Irish farmland: empirical evaluation of artificial trap nests as tools for fundamental research and pollinator conservation](#). *Journal of Pollination Ecology* 31: 110-123
- Murphy JT, Breeze TD, Willcox B, Kavanagh S, Stout JC [Globalisation and pollinators: modelling the impact of pollinator decline on international trade in animal-pollinated crops](#). *People and Nature*
- Egan PA, Stevenson PC, Stout JC, [Pollinator selection against toxic nectar as a key facilitator of a plant invasion](#). *Philosophical Transactions of the Royal Society B* 377: 20210168
- Stout JC, Dicks LV, [From science to society: implementing effective strategies to improve wild pollinator health](#). *Philosophical Transactions of the Royal Society B* 377: 20210165
- Ruas S, Kelly R, Ahmed KSD, Maher SM, O’Hora E, Volpato A, O’hUallacháin D, Gormally MJ, Stout JC, Moran J (2022) Does landscape structure affect the presence of woodland specialist pollinators in farmland? Implications for Agri-Environment Scheme design. *Biology and Environment* 122B(1), pp. 17–37
- Herbertsson L, Ekroos J, Albrecht M, Bartomeus I, Batáry P, Bommarco R, Caplat P, Diekötter T, Eikestam JM, Entling MH, Farbu S, Farwig N, Gonzalez-Varog JP, Hass A, Holzschuh A, Hopfenmüller S, Jakobsson A, Jauker B, Kovács-Hostyánszki A, Kleve W, Kunin WE, Lindström SAM, Mullen S, Öckinger E, Petanidou T, Potts SG, Power EF, Rundlöf M, Seibel K, Söber V, Söderman A, Steffan-Dewenter I,

Stout JC, Teder T, Tschardt T, Smith HG. Bees increase seed set of wild plants while increasing proportion of arable land has a variable effect on pollination in European agricultural landscapes. *Plant Ecology and Evolution*, 154: 341-350. doi: 10.5091/plecevo.2021.1884.

- Mesnage R, Straw EA, Antoniou MN, Benbrook C, Brown MJF, Chauzat M-P, Finger R, Goulson D, Leadbeater E, López-Ballesteros A, Möhring N, Neumann P, Stanley D, Stout JC, Thompson LJ, Topping CJ, White B, Zaller JG, Zioga E (2021). Improving pesticide-use data for the EU. *Nature Ecology & Evolution* 5(12): 1560-1560. DOI: 10.1038/s41559-021-01574-1
- Stanley D.A. & Cosnett E. (2021) [Catching the thief: Nectar robbing behaviour by bumblebees on naturalised Fuchsia magellanica in Ireland](#). *Journal of Pollination Ecology* 29:240-248 doi:10.26786/1920-7603(2021)620
- Larkin, M. & Stanley, D.A. (2021) [Impacts of management at a local and landscape scale on pollinators in semi-natural grasslands](#) *Journal of Applied Ecology* 58:2505–2514
- Vickneswaran, M., J. C. Carolan and B. White (2021). [Simultaneous determination of pesticides from soils: a comparison between QuEChERS extraction and Dutch mini-Luke extraction methods](#). *Analytical Methods*.
- Burns, K. L. W., Ú. Fitzpatrick and D. A. Stanley (2021). [Public perceptions of Ireland’s pollinators: A case for more inclusive pollinator conservation initiatives](#). *Journal for Nature Conservation* 61: 125999.
- Phelan, N., D. Suddaby and D. A. Stanley (2021). Investigating the ecology of the Great Yellow Bumblebee (*Bombus distinguendus*) within the wider bumblebee community in North-West Ireland. *Journal of Insect Conservation* 25(2): 297-310. <https://link.springer.com/article/10.1007/s10841-021-00299-7>
- Bottero, I., S. Hodge and J. C. Stout (2021). Taxon-specific temporal shifts in pollinating insects in mass-flowering crops and field margins in Ireland. *Journal of Pollination Ecology* 28: 90-107. <https://pollinationecology.org/index.php/jpe/article/view/628>
- Kavanagh, S., Henry, M., Stout, J.C. White B.(2021) Neonicotinoid residues in honey from urban and rural environments. *Environmental Science and Pollution Research* <https://link.springer.com/article/10.1007/s11356-021-12564-y>
- Russo L, Buckley YM, Hamilton H, Kavanagh M, Stout, JC (2020) Low concentrations of fertilizer and herbicide alter plant growth and interactions with flower-visiting insects. *Agriculture, Ecosystems & Environment* 304:107141. <https://www.sciencedirect.com/science/article/abs/pii/S0167880920303273>
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