

# Floris van Breugel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/736154/publications.pdf>

Version: 2024-02-01

14  
papers

926  
citations

1040056

9  
h-index

1199594

12  
g-index

16  
all docs

16  
docs citations

16  
times ranked

881  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Mosquitoes Use Vision to Associate Odor Plumes with Thermal Targets. <i>Current Biology</i> , 2015, 25, 2123-2129.   | 3.9  | 235       |
| 2  | Plume-Tracking Behavior of Flying <i>Drosophila</i> Emerges from a Set of Distinct Sensory-Motor Reflexes. <i>Current Biology</i> , 2014, 24, 274-286.   | 3.9  | 186       |
| 3  | The visual control of landing and obstacle avoidance in the fruit fly <i>Drosophila melanogaster</i> . <i>Journal of Experimental Biology</i> , 2012, 215, 1783-1798.  | 1.7  | 144       |
| 4  | Distinct activity-gated pathways mediate attraction and aversion to CO <sub>2</sub> in <i>Drosophila</i> . <i>Nature</i> , 2018, 564, 420-424.   | 27.8 | 75        |
| 5  | Visual-Olfactory Integration in the Human Disease Vector Mosquito <i>Aedes aegypti</i> . <i>Current Biology</i> , 2019, 29, 2509-2516.e5.  | 3.9  | 64        |
| 6  | The long-distance flight behavior of <i>Drosophila</i> supports an agent-based model for wind-assisted dispersal in insects. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1  | 52        |
| 7  | Monocular distance estimation from optic flow during active landing maneuvers. <i>Bioinspiration and Biomimetics</i> , 2014, 9, 025002.  | 2.9  | 49        |
| 8  | History dependence in insect flight decisions during odor tracking. <i>PLoS Computational Biology</i> , 2018, 14, e1005969.  | 3.2  | 47        |
| 9  | Numerical Differentiation of Noisy Data: A Unifying Multi-Objective Optimization Framework. <i>IEEE Access</i> , 2020, 8, 196865-196877.   | 4.2  | 44        |
| 10 | PyNumDiff: A Python package for numerical differentiation of noisy time-series data. <i>Journal of Open Source Software</i> , 2022, 7, 4078.   | 4.6  | 10        |
| 11 | Insect inspired vision-based velocity estimation through spatial pooling of optic flow during linear motion. <i>Bioinspiration and Biomimetics</i> , 2021, 16, 066004.   | 2.9  | 8         |
| 12 | A Nonlinear Observability Analysis of Ambient Wind Estimation with Uncalibrated Sensors, Inspired by Insect Neural Encoding. , 2021, , .   |      | 6         |
| 13 | Correlated decision making across multiple phases of olfactory-guided search in <i>Drosophila</i> improves search efficiency. <i>Journal of Experimental Biology</i> , 2021, 224, .  | 1.7  | 3         |
| 14 | Upwind Detection of Ambient Wind Using Biomimetic Antenna Sensors for Aerial Vehicles through Active Sensing. , 2020, , .  |      | 2         |