

# Justus V Verhagen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5310351/publications.pdf>

Version: 2024-02-01

31  
papers

2,329  
citations

430754

18  
h-index

434063

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

1599  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Sniffing controls an adaptive filter of sensory input to the olfactory bulb. <i>Nature Neuroscience</i> , 2007, 10, 631-639.  | 7.1 | 346       |
| 2  | The neurocognitive bases of human multimodal food perception: Sensory integration. <i>Neuroscience and Biobehavioral Reviews</i> , 2006, 30, 613-650.   | 2.9 | 315       |
| 3  | Rapid Encoding and Perception of Novel Odors in the Rat. <i>PLoS Biology</i> , 2008, 6, e82.  | 2.6 | 173       |
| 4  | Primate Insular/Opercular Taste Cortex: Neuronal Representations of the Viscosity, Fat Texture, Grittiness, Temperature, and Taste of Foods. <i>Journal of Neurophysiology</i> , 2004, 92, 1685-1699. | 0.9 | 169       |
| 5  | Temporal Structure of Receptor Neuron Input to the Olfactory Bulb Imaged in Behaving Rats. <i>Journal of Neurophysiology</i> , 2009, 101, 1073-1088.  | 0.9 | 159       |
| 6  | Neuronal Representations of Stimuli in the Mouth: The Primate Insular Taste Cortex, Orbitofrontal Cortex and Amygdala. <i>Chemical Senses</i> , 2005, 30, 401-419.                                    | 1.1 | 150       |
| 7  | Neurons in the Primate Orbitofrontal Cortex Respond to Fat Texture Independently of Viscosity. <i>Journal of Neurophysiology</i> , 2003, 90, 1514-1525.   | 0.9 | 142       |
| 8  | Representations of the Texture of Food in the Primate Orbitofrontal Cortex: Neurons Responding to Viscosity, Grittiness, and Capsaicin. <i>Journal of Neurophysiology</i> , 2003, 90, 3711-3724.      | 0.9 | 139       |
| 9  | Algorithms for Olfactory Search across Species. <i>Journal of Neuroscience</i> , 2018, 38, 9383-9389.   | 1.7 | 117       |
| 10 | Why Sniff Fast? The Relationship Between Sniff Frequency, Odor Discrimination, and Receptor Neuron Activation in the Rat. <i>Journal of Neurophysiology</i> , 2009, 101, 1089-1102.                   | 0.9 | 95        |
| 11 | The Representation of Information About Taste and Odor in the Orbitofrontal Cortex. <i>Chemosensory Perception</i> , 2010, 3, 16-33.  | 0.7 | 69        |
| 12 | The neurocognitive bases of human multimodal food perception: Consciousness. <i>Brain Research Reviews</i> , 2007, 53, 271-286.   | 9.1 | 66        |
| 13 | Retronasal Odor Representations in the Dorsal Olfactory Bulb of Rats. <i>Journal of Neuroscience</i> , 2012, 32, 7949-7959.   | 1.7 | 49        |
| 14 | Perception of Odors Linked to Precise Timing in the Olfactory System. <i>PLoS Biology</i> , 2014, 12, e1002021.   | 2.6 | 42        |
| 15 | Artificial neural network analysis of gustatory responses in the thalamic taste relay of the rat. <i>Physiology and Behavior</i> , 2004, 80, 499-513.   | 1.0 | 39        |
| 16 | Evidence that the Sweetness of Odors Depends on Experience in Rats. <i>Chemical Senses</i> , 2010, 35, 767-776.   | 1.1 | 38        |
| 17 | Direct Behavioral Evidence for Retronasal Olfaction in Rats. <i>PLoS ONE</i> , 2012, 7, e44781.   | 1.1 | 31        |
| 18 | The Habituation/Cross-Habituation Test Revisited: Guidance from Sniffing and Video Tracking. <i>Neural Plasticity</i> , 2016, 2016, 1-14.   | 1.0 | 22        |

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|----|---|-----|-----------|
| 19 | Direct Behavioral and Neurophysiological Evidence for Retronasal Olfaction in Mice. PLoS ONE, 2015, 10, e0117218.   | 1.1 | 21        |
| 20 | Comparison of glomerular activity patterns by fMRI and wide-field calcium imaging: Implications for principles underlying odor mapping. NeuroImage, 2016, 126, 208-218. | 2.1 | 19        |
| 21 | Orthonasal versus retronasal glomerular activity in rat olfactory bulb by fMRI. NeuroImage, 2020, 212, 116664.  | 2.1 | 19        |
| 22 | A Comparison between Mouse, <i>In Silico</i> , and Robot Odor Plume Navigation Reveals Advantages of Mouse Odor Tracking. ENeuro, 2020, 7, ENEURO.0212-19.2019.         | 0.9 | 17        |
| 23 | A simple method for reconditioning epoxy-coated microelectrodes for extracellular single neuron recording. Journal of Neuroscience Methods, 2003, 123, 215-217.         | 1.3 | 16        |
| 24 | Retronasal odor concentration coding in glomeruli of the rat olfactory bulb. Frontiers in Integrative Neuroscience, 2014, 8, 81.  | 1.0 | 15        |
| 25 | Spatiotemporal dynamics of odor responses in the lateral and dorsal olfactory bulb. PLoS Biology, 2019, 17, e3000409.   | 2.6 | 15        |
| 26 | Active sensing in a dynamic olfactory world. Journal of Computational Neuroscience, 2022, 50, 1-6.  | 0.6 | 15        |
| 27 | Respiration Gates Sensory Input Responses in the Mitral Cell Layer of the Olfactory Bulb. PLoS ONE, 2016, 11, e0168356.   | 1.1 | 13        |
| 28 | A Role for Lung Retention in the Sense of Retronasal Smell. Chemosensory Perception, 2015, 8, 78-84.  | 0.7 | 7         |
| 29 | Spontaneous activity forms a foundation for odor-evoked activation maps in the rat olfactory bulb. NeuroImage, 2018, 172, 586-596.                                      | 2.1 | 6         |
| 30 | Thalamic activations in rat brain by fMRI during tactile (forepaw, whisker) and non-tactile (visual,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3                            | 1.1 | 3         |
| 31 | An automated sensitive approach for measuring whole gut transit time. Neurogastroenterology and Motility, 2020, 32, e13894.   | 1.6 | 2         |