# Johannes Spaethe

List of Publications by Year
in descending order



| 69 | 3,346 | 186265<br>28 | 155660<br>55 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 73 | 73 | 73 | 2391 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Caution with colour calculations: spectral purity is a poor descriptor of flower colour visibility. Annals of Botany, 2022, 130, 1-9. | 2.9 | 11 |
| 2 | Exploiting trap color to improve surveys of longhorn beetles. Journal of Pest Science, 2021, 94, 871-883. | 3.7 | 25 |
| 3 | Honey Bees Can Taste Amino and Fatty Acids in Pollen, but Not Sterols. Frontiers in Ecology and Evolution, 2021, 9, . | 2.2 | 20 |
| 4 | Evidence for UV-green dichromacy in the basal hymenopteran Sirex noctilio (Siricidae). Scientific Reports, 2021, 11, 15601. | 3.3 | 4 |
| 5 | Does quantity matter to a stingless bee?. Animal Cognition, 2021, , 1. | 1.8 | 2 |
| 6 | Flower Color as Predictor for Nectar Reward Quantity in an Alpine Flower Community. Frontiers in Ecology and Evolution, 2021, 9, . | 2.2 | 4 |
| 7 | Mechanisms of Nutritional Resource Exploitation by Insects. Insects, 2020, 11, 570. | 2.2 | 7 |
| 8 | Young bumblebees may rely on both direct pollen cues and early experience when foraging. Proceedings of the Royal Society B: Biological Sciences, 2020, 287, 20201615. | 2.6 | 7 |
| 9 | Effect of Trap Color on Captures of Bark- and Wood-Boring Beetles (Coleoptera; Buprestidae and) Tj ETQq1 1 0.784314 rgBT /Overlock | 2.2 | 20 |
| 10 | Best be(e) on low fat: linking nutrient perception, regulation and fitness. Ecology Letters, 2020, 23, 545-554. | 6.4 | 62 |
| 11 | Adding Amino Acids to a Sucrose Diet Is Not Sufficient to Support Longevity of Adult Bumble Bees. Insects, 2020, 11, 247. | 2.2 | 10 |
| 12 | Color preference and spatial distribution of glaphyrid beetles suggest a key role in the maintenance of the color polymorphism in the peacock anemone (Anemone pavonina, Ranunculaceae) in Northern Greece. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2019, 205, 735-743. | 1.6 | 23 |
| 13 | Pollinator or pedigree: which factors determine the evolution of pollen nutrients?. Oecologia, 2019, 191, 349-358. | 2.0 | 34 |
| 14 | Species composition and elevational distribution of bumble bees (Hymenoptera, Apidae, Bombus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 | 1.1 | 23 |
| 15 | Bumblebees are able to perceive amino acids via chemotactile antennal stimulation. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2019, 205, 321-331. | 1.6 | 32 |
| 16 | Distributed plasticity in ant visual pathways following colour learning. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182813. | 2.6 | 19 |
| 17 | Neuronal Plasticity in the Mushroomâ€Body Calyx of Bumble Bee Workers During Early Adult Development. Developmental Neurobiology, 2019, 79, 287-302. | 3.0 | 14 |
| 18 | Learning of monochromatic stimuli in Apis cerana and Apis mellifera by means of PER conditioning. Journal of Insect Physiology, 2019, 114, 30-34. | 2.0 | 8 |

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|---|---|---|---|
| 19 | Immediate early genes in social insects: a tool to identify brain regions involved in complex behaviors and molecular processes underlying neuroplasticity. Cellular and Molecular Life Sciences, 2019, 76, 637-651. | 5.4 | 29 |
| 20 | Do honeybees (Apis mellifera) differentiate between different pollen types?. PLoS ONE, 2018, 13, e0205821. | 2.5 | 13 |
| 21 | Length of stimulus presentation and visual angle are critical for efficient visual PER conditioning in the restrained honey bee, Apis mellifera. Journal of Experimental Biology, 2018, 221, . | 1.7 | 10 |
| 22 | Opsin expression patterns coincide with photoreceptor development during pupal development in the honey bee, Apis mellifera. BMC Developmental Biology, 2018, 18, 1. | 2.1 | 19 |
| 23 | Innate colour preference, individual learning and memory retention in the ant Camponotus blandus. Journal of Experimental Biology, 2017, 220, 3315-3326. | 1.7 | 30 |
| 24 | Pitfalls of using confocal-microscopy based automated quantification of synaptic complexes in honeybee mushroom bodies (response to Peng and Yang 2016). Scientific Reports, 2017, 7, 9786. | 3.3 | 10 |
| 25 | The path to colour discrimination is S-shaped: behaviour determines the interpretation of colour models. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2017, 203, 983-997. | 1.6 | 50 |
| 26 | Impact of light and alarm pheromone on immediate early gene expression in the European honeybee, <scp><i>Apis mellifera</i></scp>. Entomological Science, 2017, 20, 122-126. | 0.6 | 18 |
| 27 | Learning performance and brain structure of artificially-reared honey bees fed with different quantities of food. PeerJ, 2017, 5, e3858. | 2.0 | 19 |
| 28 | Hungry for qualityâ€”individual bumblebees forage flexibly to collect high-quality pollen. Behavioral Ecology and Sociobiology, 2016, 70, 1209-1217. | 1.4 | 63 |
| 29 | Body size limits dim-light foraging activity in stingless bees (Apidae: Meliponini). Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2016, 202, 643-655. | 1.6 | 48 |
| 30 | Ageâ€related and lightâ€induced plasticity in opsin gene expression and in primary and secondary visual centers of the nectarâ€feeding ant <i>Camponotus rufipes</i>. Developmental Neurobiology, 2016, 76, 1041-1057. | 3.0 | 49 |
| 31 | Does<i>Traunsteinera globosa</i>(the globe orchid) dupe its pollinators through generalized food deception or mimicry?. Botanical Journal of the Linnean Society, 2016, 180, 269-294. | 1.6 | 25 |
| 32 | Does Fine Color Discrimination Learning in Free-Flying Honeybees Change Mushroom-Body Calyx Neuroarchitecture?. PLoS ONE, 2016, 11, e0164386. | 2.5 | 20 |
| 33 | Extracting the Behaviorally Relevant Stimulus: Unique Neural Representation of Farnesol, a Component of the Recruitment Pheromone of Bombus terrestris. PLoS ONE, 2015, 10, e0137413. | 2.5 | 10 |
| 34 | Dumb and Lazy? A Comparison of Color Learning and Memory Retrieval in Drones and Workers of the Buff-Tailed Bumblebee, Bombus terrestris, by Means of PER Conditioning. PLoS ONE, 2015, 10, e0134248. | 2.5 | 22 |
| 35 | Functional Significance of Labellum Pattern Variation in a Sexually Deceptive Orchid (Ophrys) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 2.5 | 22 |
| 36 | A scientific note on peripheral compound eye morphology of small and normal-sized honey bee drones. Journal of Apicultural Research, 2015, 54, 59-61. | 1.5 | 2 |

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|---|---|---|---|
| 37 | How to know which food is good for you: bumblebees use taste to discriminate between different concentrations of food differing in nutrient content. Journal of Experimental Biology, 2015, 218, 2233-2240. | 1.7 | 79 |
| 38 | Social Information in the Stingless Bee, Trigona corvina Cockerell (Hymenoptera: Apidae): The Use of Visual and Olfactory Cues at the Food Site. Sociobiology, 2015, 61, . | 0.5 | 3 |
| 39 | Royal jelly-like protein localization reveals differences in hypopharyngeal glands buildup and conserved expression pattern in brains of bumblebees and honeybees. Biology Open, 2014, 3, 281-288. | 1.2 | 20 |
| 40 | Elemental and non-elemental olfactory learning using PER conditioning in the bumblebee, Bombus terrestris. Apidologie, 2014, 45, 106-115. | 2.0 | 37 |
| 41 | Functional morphology of the visual system and mating strategies in bumblebees (Hymenoptera,) Tj ETQq1 1 0.784314 rgBT /Overlock | 2.3 | 32 |
| 42 | Behavioural evidence of colour vision in free flying stingless bees. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2014, 200, 485-496. | 1.6 | 45 |
| 43 | Functional morphology of the visual system and mating strategies in bumblebees (Hymenoptera,) Tj ETQq1 1 0.784314 rgBT /Overlock | 2.3 | 0 |
| 44 | Strategies of the honeybee Apis mellifera during visual search for vertical targets presented at various heights: a role for spatial attention?. F1000Research, 2014, 3, 174. | 1.6 | 6 |
| 45 | Sexual dimorphism in the olfactory system of a solitary and a eusocial bee species. Journal of Comparative Neurology, 2013, 521, 2742-2755. | 1.6 | 40 |
| 46 | Blue colour preference in honeybees distracts visual attention for learning closed shapes. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2013, 199, 817-827. | 1.6 | 64 |
| 47 | Sex and Caste-Specific Variation in Compound Eye Morphology of Five Honeybee Species. PLoS ONE, 2013, 8, e57702. | 2.5 | 80 |
| 48 | Visual attention in a complex search task differs between honeybees and bumblebees. Journal of Experimental Biology, 2012, 215, 2515-2523. | 1.7 | 71 |
| 49 | Floral visual signal increases reproductive success in a sexually deceptive orchid. Arthropod-Plant Interactions, 2012, 6, 671-681. | 1.1 | 23 |
| 50 | Molecular and biochemical characterization of the major royal jelly protein in bumblebees suggest a non-nutritive function. Insect Biochemistry and Molecular Biology, 2012, 42, 647-654. | 2.7 | 22 |
| 51 | Integrating past and present studies on Ophrys pollination - a comment on Bradshaw etâ€ƒal.. Botanical Journal of the Linnean Society, 2011, 165, 329-335. | 1.6 | 48 |
| 52 | Bees use three-dimensional information to improve target detection. Die Naturwissenschaften, 2010, 97, 229-233. | 1.6 | 41 |
| 53 | Visual discrimination between two sexually deceptive Ophrys species by a bee pollinator. Arthropod-Plant Interactions, 2010, 4, 141-148. | 1.1 | 24 |
| 54 | Why sexually deceptive orchids have colored flowers. Communicative and Integrative Biology, 2010, 3, 139-141. | 1.4 | 28 |

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|---|---|---|---|
| 55 | Floral colour signal increases short-range detectability of a sexually deceptive orchid to its bee pollinator. Journal of Experimental Biology, 2009, 212, 1365-1370. | 1.7 | 86 |
| 56 | Comparative psychophysics of bumblebee and honeybee colour discrimination and object detection. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2008, 194, 617-627. | 1.6 | 190 |
| 57 | Turning blue and ultraviolet: sex-specific colour change during the mating season in the Balkan moor frog. Journal of Zoology, 2008, 276, 229-236. | 1.7 | 39 |
| 58 | Bigger is better: implications of body size for flight ability under different light conditions and the evolution of alloethism in bumblebees. Functional Ecology, 2007, 21, 1130-1136. | 3.6 | 103 |
| 59 | Size determines antennal sensitivity and behavioral threshold to odors in bumblebee workers. Die Naturwissenschaften, 2007, 94, 733-739. | 1.6 | 152 |
| 60 | Visual search and the importance of time in complex decision making by bees. Arthropod-Plant Interactions, 2007, 1, 37-44. | 1.1 | 47 |
| 61 | Beyond 9-ODA: SEX Pheromone Communication in the European Honey Bee Apis mellifera L.. Journal of Chemical Ecology, 2006, 32, 657-667. | 1.8 | 73 |
| 62 | Do honeybees detect colour targets using serial or parallel visual search?. Journal of Experimental Biology, 2006, 209, 987-993. | 1.7 | 80 |
| 63 | Molecular characterization and expression of the UV opsin in bumblebees:three ommatidial subtypes in the retina and a new photoreceptor organ in the lamina. Journal of Experimental Biology, 2005, 208, 2347-2361. | 1.7 | 99 |
| 64 | Honeybee Odometry: Performance in Varying Natural Terrain. PLoS Biology, 2004, 2, e211. | 5.6 | 126 |
| 65 | Early Duplication and Functional Diversification of the Opsin Gene Family in Insects. Molecular Biology and Evolution, 2004, 21, 1583-1594. | 8.9 | 65 |
| 66 | Interindividual variation of eye optics and single object resolution in bumblebees. Journal of Experimental Biology, 2003, 206, 3447-3453. | 1.7 | 194 |
| 67 | Size variation and foraging rate in bumblebees ( Bombus terrestris ). Insectes Sociaux, 2002, 49, 142-146. | 1.2 | 199 |
| 68 | Visual constraints in foraging bumblebees: Flower size and color affect search time and flight behavior. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 3898-3903. | 7.1 | 443 |
| 69 | Honeybees (Apis mellifera)Âexhibit flexible visual search strategies for vertical targets presented at various heights. F1000Research, 0, 3, 174. | 1.6 | 2 |