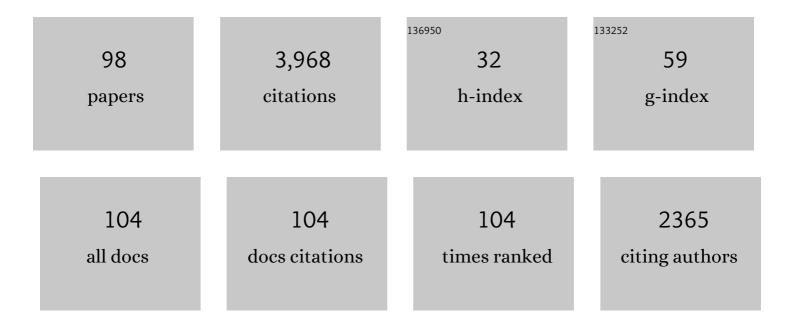
List of Publications by Year in descending order

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| # | Article | lF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Natural acoustic stimuli evoke selective responses in the hippocampus of passive listening bats. Hippocampus, 2022, 32, 298-309. | 1.9 | 4 |
| 2 | Cover Image, Volume 32, Issue 4. Hippocampus, 2022, 32, . | 1.9 | 0 |
| 3 | Sensory error drives fine motor adjustment. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, . | 7.1 | 4 |
| 4 | Bat target tracking strategies for prey interception. Communicative and Integrative Biology, 2021, 14, 37-40. | 1.4 | 6 |
| 5 | Visual cues enhance obstacle avoidance in echolocating bats. Journal of Experimental Biology, 2021, 224, . | 1.7 | 11 |
| 6 | Natural Statistics as Inference Principles of Auditory Tuning in Biological and Artificial Midbrain Networks. ENeuro, 2021, 8, ENEURO.0525-20.2021. | 1.9 | 3 |
| 7 | Active head rolls enhance sonar-based auditory localization performance. PLoS Computational Biology, 2021, 17, e1008973. | 3.2 | 1 |
| 8 | Mechanosensory Hairs and Hair-like Structures in the Animal Kingdom: Specializations and Shared Functions Serve to Inspire Technology Applications. Sensors, 2021, 21, 6375. | 3.8 | 11 |
| 9 | Deafness in an auditory specialist, the big brown bat (Eptesicus fuscus). Hearing Research, 2021, 412, 108377. | 2.0 | 1 |
| 10 | Cynthia F. Moss. Current Biology, 2021, 31, R1365-R1366. | 3.9 | 0 |
| 11 | Effect of background clutter on neural discrimination in the bat auditory midbrain. Journal of Neurophysiology, 2021, 126, 1772-1782. | 1.8 | 5 |
| 12 | Inflight head stabilization associated with wingbeat cycle and sonar emissions in the lingual echolocating Egyptian fruit bat, Rousettus aegyptiacus. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2021, 207, 757-772. | 1.6 | 0 |
| 13 | Communication with self, friends and foes in active-sensing animals. Journal of Experimental Biology, 2021, 224, . | 1.7 | 18 |
| 14 | Orienting our view of the superior colliculus: specializations and general functions. Current Opinion in Neurobiology, 2021, 71, 119-126. | 4.2 | 12 |
| 15 | Timing of the advertisement call of the common tink frog (Diasporus diastema) shifts with the acoustic behaviour of local conspecifics. Bioacoustics, 2020, 29, 79-96. | 1.7 | 6 |
| 16 | Neural Response Selectivity to Natural Sounds in the Bat Midbrain. Neuroscience, 2020, 434, 200-211. | 2.3 | 13 |
| 17 | Social facilitation in short-tailed fruit bats, Carollia perspicillata (Linnaeus). Behaviour, 2020, 157, 1193-1210. | 0.8 | 5 |
| 18 | Adaptive Echolocation and Flight Behaviors in Bats Can Inspire Technology Innovations for Sonar Tracking and Interception. Sensors, 2020, 20, 2958. | 3.8 | 4 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Echolocating bats accumulate information from acoustic snapshots to predict auditory object motion. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 29229-29238. | 7.1 | 18 |
| 20 | Frequency-modulated up-chirps produce larger evoked responses than down-chirps in the big brown bat auditory brainstem. Journal of the Acoustical Society of America, 2019, 146, 1671-1684. | 1.1 | 5 |
| 21 | Echolocating bats inspect and discriminate landmark features to guide navigation. Journal of Experimental Biology, 2019, 222, . | 1.7 | 9 |
| 22 | A 2.6â€g sound and movement tag for studying the acoustic scene and kinematics of echolocating bats. Methods in Ecology and Evolution, 2019, 10, 48-58. | 5.2 | 25 |
| 23 | Auditory communication processing in bats: What we know and where to go Behavioral Neuroscience, 2019, 133, 305-319. | 1.2 | 14 |
| 24 | Comparative analysis of the distribution and morphology of tactile hairs on the wing membrane of four bat species. Journal of Mammalogy, 2018, 99, 124-130. | 1.3 | 4 |
| 25 | Functional Organization and Dynamic Activity in the Superior Colliculus of the Echolocating Bat, <i>Eptesicus fuscus</i> . Journal of Neuroscience, 2018, 38, 245-256. | 3.6 | 7 |
| 26 | Neural timing of stimulus events with microsecond precision. PLoS Biology, 2018, 16, e2006422. | 5.6 | 23 |
| 27 | Echo interval and not echo intensity drives bat flight behavior in structured corridors. Journal of Experimental Biology, 2018, 221, . | 1.7 | 12 |
| 28 | Dynamic representation of 3D auditory space in the midbrain of the free-flying echolocating bat. ELife, 2018, 7, . | 6.0 | 41 |
| 29 | Adaptive sonar call timing supports target tracking in echolocating bats. Journal of Experimental Biology, 2018, 221, . | 1.7 | 9 |
| 30 | The Lombard Effect: From Acoustics to Neural Mechanisms. Trends in Neurosciences, 2018, 41, 938-949. | 8.6 | 68 |
| 31 | Natural echolocation sequences evoke echo-delay selectivity in the auditory midbrain of the FM bat, <i>Eptesicus fuscus</i> . Journal of Neurophysiology, 2018, 120, 1323-1339. | 1.8 | 19 |
| 32 | Echolocation and flight behavior of the bat Hipposideros armiger terasensis in a structured corridor. Journal of the Acoustical Society of America, 2018, 144, 806-813. | 1.1 | 9 |
| 33 | Functional role of airflow-sensing hairs on the bat wing. Journal of Neurophysiology, 2017, 117, 705-712. | 1.8 | 19 |
| 34 | Sensorimotor integration on a rapid time scale. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6605-6610. | 7.1 | 26 |
| 35 | Echolocating bats rely on audiovocal feedback to adapt sonar signal design. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 10978-10983. | 7.1 | 25 |
| 36 | Sensing in a noisy world: lessons from auditory specialists, echolocating bats. Journal of Experimental Biology, 2017, 220, 4554-4566. | 1.7 | 66 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Directionality of nose-emitted echolocation calls from bats without a nose-leaf (Plecotus auritus). Journal of Experimental Biology, 2017, 221, . | 1.7 | 11 |
| 38 | Tongue-driven sonar beam steering by a lingual-echolocating fruit bat. PLoS Biology, 2017, 15, e2003148. | 5.6 | 18 |
| 39 | Age-dependent gene expression in the inner ear of big brown bats (Eptesicus fuscus). PLoS ONE, 2017, 12, e0186667. | 2.5 | 3 |
| 40 | Painting the world with sounds, perceiving the world from echoes. , 2017, , 17-24. | | 0 |
| 41 | Dynamic Echo Information Guides Flight in the Big Brown Bat. Frontiers in Behavioral Neuroscience, 2016, 10, 81. | 2.0 | 21 |
| 42 | Can the elongated hindwing tails of fluttering moths serve as false sonar targets to divert bat attacks?. Journal of the Acoustical Society of America, 2016, 139, 2579-2588. | 1.1 | 7 |
| 43 | BatFlash: A head-mounted LED for detecting bat echolocation. , 2016, , . | | 0 |
| 44 | Big brown bats (<i>Eptesicus fuscus</i>) reveal diverse strategies for sonar target tracking in clutter. Journal of the Acoustical Society of America, 2016, 140, 1839-1849. | 1.1 | 6 |
| 45 | Physiological Properties of Neurons in Bat Entorhinal Cortex Exhibit an Inverse Gradient along the Dorsal-Ventral Axis Compared to Entorhinal Neurons in Rat. Journal of Neuroscience, 2016, 36, 4591-4599. | 3.6 | 2 |
| 46 | Three-dimensional auditory localization in the echolocating bat. Current Opinion in Neurobiology, 2016, 41, 78-86. | 4.2 | 45 |
| 47 | Perceiving the World Through Echolocation and Vision. Springer Handbook of Auditory Research, 2016, , 265-288. | 0.7 | 7 |
| 48 | Midbrain auditory selectivity to natural sounds. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2508-2513. | 7.1 | 15 |
| 49 | Action Enhances Acoustic Cues for 3-D Target Localization by Echolocating Bats. PLoS Biology, 2016, 14, e1002544. | 5.6 | 34 |
| 50 | Grid cells in 3-D: Reconciling data and models. Hippocampus, 2015, 25, 1489-1500. | 1.9 | 21 |
| 51 | Bats regulate biosonar based on the availability of visual information. Current Biology, 2015, 25, R1124-R1125. | 3.9 | 49 |
| 52 | Big brown bats (<i>Eptesicus fuscus</i>) emit intense search calls and fly in stereotyped flight paths as they forage in the wild. Journal of Experimental Biology, 2015, 219, 334-40. | 1.7 | 15 |
| 53 | Active Listening in a Bat Cocktail Party: Adaptive Echolocation and Flight Behaviors of Big Brown Bats, <i>Eptesicus fuscus</i> , Foraging in a Cluttered Acoustic Environment. Brain, Behavior and Evolution, 2015, 86, 6-16. | 1.7 | 21 |
| 54 | Somatosensory Substrates of Flight Control in Bats. Cell Reports, 2015, 11, 851-858. | 6.4 | 34 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Tight coordination of aerial flight maneuvers and sonar call production in insectivorous bats. Journal of Experimental Biology, 2015, 218, 3678-3688. | 1.7 | 19 |
| 56 | Scene analysis in the natural environment. Frontiers in Psychology, 2014, 5, 199. | 2.1 | 42 |
| 57 | Timing matters: sonar call groups facilitate target localization in bats. Frontiers in Physiology, 2014, 5, 168. | 2.8 | 52 |
| 58 | Bats coordinate sonar and flight behavior as they forage in open and cluttered environments. Journal of Experimental Biology, 2014, 217, 4356-64. | 1.7 | 65 |
| 59 | Social Calls Predict Foraging Success in Big Brown Bats. Current Biology, 2014, 24, 885-889. | 3.9 | 62 |
| 60 | Air Flow Sensing in Bats. , 2014, , 197-213. | | 9 |
| 61 | Bat and Rat Neurons Differ in Theta-Frequency Resonance Despite Similar Coding of Space. Science, 2013, 340, 363-367. | 12.6 | 78 |
| 62 | Introduction to special issue, "How nature shaped echolocation in animals― Frontiers in Physiology, 2013, 4, 193. | 2.8 | 41 |
| 63 | Social calls of flying big brown bats (Eptesicus fuscus). Frontiers in Physiology, 2013, 4, 214. | 2.8 | 34 |
| 64 | Adaptive vocal behavior drives perception by echolocation in bats. Current Opinion in Neurobiology, 2011, 21, 645-652. | 4.2 | 68 |
| 65 | Social learning of a novel foraging task by big brown bats, Eptesicus fuscus. Animal Behaviour, 2011, 82, 1075-1083. | 1.9 | 38 |
| 66 | Organization of the primary somatosensory cortex and wing representation in the Big Brown Bat, Eptesicus fuscus. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2011, 197, 89-96. | 1.6 | 22 |
| 67 | Adaptive behavior for texture discrimination by the free-flying big brown bat, Eptesicus fuscus. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2011, 197, 491-503. | 1.6 | 42 |
| 68 | Dynamics of hippocampal spatial representation in echolocating bats. Hippocampus, 2011, 21, 150-161. | 1.9 | 34 |
| 69 | Bat wing sensors support flight control. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11291-11296. | 7.1 | 154 |
| 70 | Active Control of Acoustic Field-of-View in a Biosonar System. PLoS Biology, 2011, 9, e1001150. | 5.6 | 36 |
| 71 | Effects of competitive prey capture on flight behavior and sonar beam pattern in paired big brown bats, <i>Eptesicus fuscus</i> . Journal of Experimental Biology, 2010, 213, 3348-3356. | 1.7 | 49 |
| 72 | Optimal Localization by Pointing Off Axis. Science, 2010, 327, 701-704. | 12.6 | 120 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Spatial perception and adaptive sonar behavior. Journal of the Acoustical Society of America, 2010, 128, 3788-3798. | 1.1 | 26 |
| 74 | Probing the natural scene by echolocation in bats. Frontiers in Behavioral Neuroscience, 2010, 4, . | 2.0 | 123 |
| 75 | Acoustic scanning of natural scenes by echolocation in the big brown bat, <i>Eptesicus fuscus</i> . Journal of Experimental Biology, 2009, 212, 1011-1020. | 1.7 | 128 |
| 76 | Adaptive echolocation behavior in bats for the analysis of auditory scenes. Journal of Experimental Biology, 2009, 212, 1392-1404. | 1.7 | 59 |
| 77 | Behavioral responses of big brown bats to dives by praying mantises. Journal of Experimental Biology, 2009, 212, 693-703. | 1.7 | 34 |
| 78 | Pup guarding by greater spear-nosed bats. Behavioral Ecology and Sociobiology, 2009, 63, 1693-1703. | 1.4 | 32 |
| 79 | Free-flight encounters between praying mantids (<i>Parasphendale agrionina</i>) and bats (<i>Eptesicus fuscus</i>). Journal of Experimental Biology, 2008, 211, 555-562. | 1.7 | 33 |
| 80 | When echolocating bats do not echolocate. Communicative and Integrative Biology, 2008, 1, 161-162. | 1.4 | 6 |
| 81 | What the bat's voice tells the bat's brain. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8491-8498. | 7.1 | 139 |
| 82 | A Sensorimotor Approach to Sound Localization. Neural Computation, 2008, 20, 603-635. | 2.2 | 50 |
| 83 | Flying in silence: Echolocating bats cease vocalizing to avoid sonar jamming. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 13116-13121. | 7.1 | 105 |
| 84 | Flying big brown bats emit a beam with two lobes in the vertical plane. Journal of the Acoustical Society of America, 2007, 122, 3717-3724. | 1.1 | 17 |
| 85 | The role of the external ear in vertical sound localization in the free flying bat,Eptesicus fuscus. Journal of the Acoustical Society of America, 2007, 121, 2227-2235. | 1.1 | 52 |
| 86 | Hippocampal cellular and network activity in freely moving echolocating bats. Nature Neuroscience, 2007, 10, 224-233. | 14.8 | 263 |
| 87 | Discrimination of infant isolation calls by female greater spear-nosed bats, Phyllostomus hastatus. Animal Behaviour, 2007, 73, 423-432. | 1.9 | 78 |
| 88 | Correlated evolution between hearing sensitivity and social calls in bats. Biology Letters, 2006, 2, 561-564. | 2.3 | 35 |
| 89 | Echolocating Bats Use a Nearly Time-Optimal Strategy to Intercept Prey. PLoS Biology, 2006, 4, e108. | 5.6 | 192 |
| 90 | Active Listening for Spatial Orientation in a Complex Auditory Scene. PLoS Biology, 2006, 4, e79. | 5.6 | 120 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | From spatial orientation to food acquisition in echolocating bats. Trends in Ecology and Evolution, 2003, 18, 386-394. | 8.7 | 609 |
| 92 | Accuracy of target ranging in echolocating bats: acoustic information processing. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 1989, 165, 383-393. | 1.6 | 80 |
| 93 | Meridional anisotropy of spatial displacement detection. Perception & Psychophysics, 1984, 36, 466-472. | 2.3 | 0 |
| 94 | Central nervous system regulation of finicky feeding by the blowfly Behavioral Neuroscience, 1983, 97, 541-548. | 1.2 | 6 |
| 95 | Tactile sensing along the wing of the echolocating bat, Eptesicus fuscus. Frontiers in Behavioral Neuroscience, 0, 6, . | 2.0 | 0 |
| 96 | The role of wing airflow sensors in bat flight control under wind gust conditions. Frontiers in Behavioral Neuroscience, 0, 6, . | 2.0 | 1 |
| 97 | Specificity of auditory responses in the superior colliculus of an echolocating bat Frontiers in Behavioral Neuroscience, 0, 6, . | 2.0 | 0 |
| 98 | How nature shaped echolocation in animals. Frontiers Research Topics, 0, , . | 0.2 | 0 |