

Yossi Yovel

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

3,694
citations

147801

31
h-index

144013

57
g-index

98
all docs

98
docs citations

98
times ranked

3965
citing authors

#	ARTICLE	IF	CITATIONS
1	Axcaliber: A method for measuring axon diameter distribution from diffusion MRI. <i>Magnetic Resonance in Medicine</i> , 2008, 59, 1347-1354.	3.0	763
2	Spatial cognition in bats and rats: from sensory acquisition to multiscale maps and navigation. <i>Nature Reviews Neuroscience</i> , 2015, 16, 94-108.	10.2	236
3	Bats Aggregate to Improve Prey Search but Might Be Impaired when Their Density Becomes Too High. <i>Current Biology</i> , 2015, 25, 206-211.	3.9	164
4	Optimal Localization by Pointing Off Axis. <i>Science</i> , 2010, 327, 701-704.	12.6	120
5	Cluster analysis of resting-state fMRI time series. <i>NeuroImage</i> , 2009, 45, 1117-1125.	4.2	106
6	Resource Ephemerality Drives Social Foraging in Bats. <i>Current Biology</i> , 2018, 28, 3667-3673.e5.	3.9	104
7	Vocal learning in a social mammal: Demonstrated by isolation and playback experiments in bats. <i>Science Advances</i> , 2015, 1, e1500019.	10.3	87
8	Habitat use of bats in relation to wind turbines revealed by GPS tracking. <i>Scientific Reports</i> , 2016, 6, 28961.	3.3	84
9	The Voice of Bats: How Greater Mouse-eared Bats Recognize Individuals Based on Their Echolocation Calls. <i>PLoS Computational Biology</i> , 2009, 5, e1000400.	3.2	80
10	It's not black or white on the range of vision and echolocation in echolocating bats. <i>Frontiers in Physiology</i> , 2013, 4, 248.	2.8	80
11	Everyday bat vocalizations contain information about emitter, addressee, context, and behavior. <i>Scientific Reports</i> , 2016, 6, 39419.	3.3	80
12	Flowers respond to pollinator sound within minutes by increasing nectar sugar concentration. <i>Ecology Letters</i> , 2019, 22, 1483-1492.	6.4	79
13	Plant Classification from Bat-Like Echolocation Signals. <i>PLoS Computational Biology</i> , 2008, 4, e1000032.	3.2	75
14	Click-based echolocation in bats: not so primitive after all. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2011, 197, 515-530.	1.6	74
15	Calling louder and longer: how bats use biosonar under severe acoustic interference from other bats. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20152064.	2.6	68
16	Conservation of brain connectivity and wiring across the mammalian class. <i>Nature Neuroscience</i> , 2020, 23, 805-808.	14.8	68
17	The ontogeny of a mammalian cognitive map in the real world. <i>Science</i> , 2020, 369, 194-197.	12.6	56
18	A functional role of the sky's polarization pattern for orientation in the greater mouse-eared bat. <i>Nature Communications</i> , 2014, 5, 4488.	12.8	55

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19	On-board recordings reveal no jamming avoidance in wild bats. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142274.	2.6	55
20	Nonecholocating Fruit Bats Produce Biosonar Clicks with Their Wings. <i>Current Biology</i> , 2014, 24, 2962-2967.	3.9	54
21	Environmental reservoir dynamics predict global infection patterns and population impacts for the fungal disease white-nose syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 7255-7262.	7.1	53
22	Persistent producer-scrounger relationships in bats. <i>Science Advances</i> , 2018, 4, e1603293.	10.3	52
23	Coordinated change at the colony level in fruit bat fur microbiomes through time. <i>Nature Ecology and Evolution</i> , 2019, 3, 116-124.	7.8	51
24	Bats regulate biosonar based on the availability of visual information. <i>Current Biology</i> , 2015, 25, R1124-R1125.	3.9	49
25	Bats adjust their mouth gape to zoom their biosonar field of view. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6724-6729.	7.1	48
26	A fully autonomous terrestrial bat-like acoustic robot. <i>PLoS Computational Biology</i> , 2018, 14, e1006406.	3.2	48
27	Crowd vocal learning induces vocal dialects in bats: Playback of conspecifics shapes fundamental frequency usage by pups. <i>PLoS Biology</i> , 2017, 15, e2002556.	5.6	47
28	Principles and Patterns of Bat Movements: From Aerodynamics to Ecology. <i>Quarterly Review of Biology</i> , 2017, 92, 267-287.	0.1	46
29	What a Plant Sounds Like: The Statistics of Vegetation Echoes as Received by Echolocating Bats. <i>PLoS Computational Biology</i> , 2009, 5, e1000429.	3.2	43
30	Movement responses of common noctule bats to the illuminated urban landscape. <i>Landscape Ecology</i> , 2020, 35, 189-201.	4.2	40
31	Echolocation at high intensity imposes metabolic costs on flying bats. <i>Nature Ecology and Evolution</i> , 2020, 4, 1174-1177.	7.8	40
32	Complex echo classification by echo-locating bats: a review. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2011, 197, 475-490.	1.6	36
33	Active Control of Acoustic Field-of-View in a Biosonar System. <i>PLoS Biology</i> , 2011, 9, e1001150.	5.6	36
34	Integrating vision and echolocation for navigation and perception in bats. <i>Science Advances</i> , 2019, 5, eaaw6503.	10.3	32
35	Reinforcement Learning Enables Resource Partitioning in Foraging Bats. <i>Current Biology</i> , 2020, 30, 4096-4102.e6.	3.9	32
36	Sound perception in plants. <i>Seminars in Cell and Developmental Biology</i> , 2019, 92, 134-138.	5.0	27

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37	An annotated dataset of Egyptian fruit bat vocalizations across varying contexts and during vocal ontogeny. <i>Scientific Data</i> , 2017, 4, 170143.	5.3	26
38	Have introduced fish initiated piscivory among the long-fingered bat?. <i>Mammalian Biology</i> , 2006, 71, 139-143.	1.5	24
39	Acoustic evaluation of behavioral states predicted from GPS tracking: a case study of a marine fishing bat. <i>Movement Ecology</i> , 2019, 7, 21.	2.8	24
40	Neuroethology of bat navigation. <i>Current Biology</i> , 2018, 28, R997-R1004.	3.9	21
41	Virtual definition of neuronal tissue by cluster analysis of multi-parametric imaging (virtual-dot-com) Tj ETQq1 1 0.784314 rgBT /Overloc 4.2 19	4.2	19
42	Noncontact Wideband Sonar for Human Activity Detection and Classification. <i>IEEE Sensors Journal</i> , 2014, 14, 4043-4054.	4.7	19
43	A Sensory-Motor Control Model of Animal Flight Explains Why Bats Fly Differently in Light Versus Dark. <i>PLoS Biology</i> , 2015, 13, e1002046.	5.6	18
44	Using on-board sound recordings to infer behaviour of free-moving wild animals. <i>Journal of Experimental Biology</i> , 2019, 222, .	1.7	18
45	Bats pre-adapt sensory acquisition according to target distance prior to takeoff even in the presence of closer background objects. <i>Scientific Reports</i> , 2017, 7, 467.	3.3	17
46	Decision making in foraging bats. <i>Current Opinion in Neurobiology</i> , 2020, 60, 169-175.	4.2	17
47	Sick bats stay home alone: fruit bats practice social distancing when faced with an immunological challenge. <i>Annals of the New York Academy of Sciences</i> , 2021, 1505, 178-190.	3.8	17
48	Food for Sex in Bats Revealed as Producer Males Reproduce with Scrounging Females. <i>Current Biology</i> , 2019, 29, 1895-1900.e3.	3.9	16
49	The benefits of insect-swarm hunting to echolocating bats, and its influence on the evolution of bat echolocation signals. <i>PLoS Computational Biology</i> , 2019, 15, e1006873.	3.2	16
50	Segregating signal from noise through movement in echolocating bats. <i>Scientific Reports</i> , 2020, 10, 382.	3.3	16
51	Inner Hemispheric and Interhemispheric Connectivity Balance in the Human Brain. <i>Journal of Neuroscience</i> , 2021, 41, 8351-8361.	3.6	16
52	Object localization using a biosonar beam: how opening your mouth improves localization. <i>Royal Society Open Science</i> , 2015, 2, 150225.	2.4	14
53	Fruit bats adjust their foraging strategies to urban environments to diversify their diet. <i>BMC Biology</i> , 2021, 19, 123.	3.8	14
54	Silence and reduced echolocation during flight are associated with social behaviors in male hoary bats (<i>Lasiurus cinereus</i>). <i>Scientific Reports</i> , 2021, 11, 18637.	3.3	14

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55	How Can Dolphins Recognize Fish According to Their Echoes? A Statistical Analysis of Fish Echoes. PLoS ONE, 2010, 5, e14054.	2.5	13
56	Sensory gaze stabilization in echolocating bats. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20191496.	2.6	13
57	Bats Use Path Integration Rather Than Acoustic Flow to Assess Flight Distance along Flyways. Current Biology, 2017, 27, 3650-3657.e3.	3.9	12
58	Mother bats facilitate pup navigation learning. Current Biology, 2022, 32, 350-360.e4.	3.9	12
59	Acoustically eavesdropping bat predators take longer to capture katydid prey signalling in aggregation. Journal of Experimental Biology, 2021, 224, .	1.7	11
60	Ear-Bot: Locust Ear-on-a-Chip Bio-Hybrid Platform. Sensors, 2021, 21, 228.	3.8	10
61	Fireflies produce ultrasonic clicks during flight as a potential aposematic anti-bat signal. IScience, 2021, 24, 102194.	4.1	10
62	How greater mouse-eared bats deal with ambiguous echoic scenes. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2011, 197, 505-514.	1.6	9
63	A sensorimotor model shows why a spectral jamming avoidance response does not help bats deal with jamming. ELife, 2020, 9, .	6.0	9
64	Opportunistic Use of Banana Flower Bracts by <i>Glossophaga soricina</i> . Acta Chiropterologica, 2016, 18, 209-213.	0.6	8
65	Functional daylight echolocation in highly visual bats. Current Biology, 2022, 32, R309-R310.	3.9	8
66	Echolocating bats can adjust sensory acquisition based on internal cues. BMC Biology, 2020, 18, 166.	3.8	7
67	Echolocating bats detect but misperceive a multidimensional incongruent acoustic stimulus. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28475-28484.	7.1	7
68	Echolocating bats rely on an innate speed-of-sound reference. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	6
69	Investigation and analysis of an ultrasonic sensor for specific yield assessment and greenhouse features identification. Precision Agriculture, 2017, 18, 916-931.	6.0	5
70	Wing-Beat Frequency and Its Acoustics in Birds and Bats. Integrative and Comparative Biology, 2020, 60, 1080-1090.	2.0	5
71	Urban bat pups take after their mothers and are bolder and faster learners than rural pups. BMC Biology, 2021, 19, 190.	3.8	5
72	Flight rapidly modulates body temperature in freely behaving bats. Animal Biotelemetry, 2021, 9, .	1.9	5

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73	Re-examining extreme sleep duration in bats: implications for sleep phylogeny, ecology, and function. <i>Sleep</i> , 2022, 45, .	1.1	5
74	Induced bacterial sickness causes inflammation but not blood oxidative stress in Egyptian fruit bats (<i>Rousettus aegyptiacus</i>). , 2022, 10, coac028.		5
75	Bat Navigation. , 2017, , 333-345.		4
76	Alone, in the dark: The extraordinary neuroethology of the solitary blind mole rat. <i>ELife</i> , 0, 11, .	6.0	4
77	TrackUSF, a novel tool for automated ultrasonic vocalization analysis, reveals modified calls in a rat model of autism. <i>BMC Biology</i> , 2022, 20, .	3.8	4
78	Bats “ Using Sound to Reveal Cognition. , 0, , 31-59.		3
79	Hearing, echolocation, and beam steering from day 0 in tongue-clicking bats. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2021, 288, 20211714.	2.6	3
80	Adaptive learning and recall of motor-sensory sequences in adult echolocating bats. <i>BMC Biology</i> , 2021, 19, 164.	3.8	2
81	Detection of plant and greenhouse features using sonar sensors. , 2015, , 299-306.		2
82	Ultrasound Imaging Reveals Accelerated In-utero Development of a Sensory Apparatus in Echolocating Bats. <i>Scientific Reports</i> , 2019, 9, 5275.	3.3	1
83	<p>A new <i>Werauhia</i> (Tillandsioideae, Bromeliaceae) from Mexico with observations about its reproductive biology</p> . <i>Phytotaxa</i> , 2020, 446, 128-134.	0.3	1
84	A bio-mimetic miniature drone for real-time audio based short-range tracking. <i>PLoS Computational Biology</i> , 2022, 18, e1009936.	3.2	1
85	Free-ranging Van Gelder’s bat (<i>Bauerus dubiaquercus</i>) (Chiroptera: Vespertilionidae) preying on dung beetles in southern Mexico. <i>Mammalia</i> , 2022, .	0.7	1
86	A neural model of demyelination of the mouse spinal cord. , 2008, , .		0
87	THE ROLE OF VOCAL LEARNING IN THE ACOUSTIC COMMUNICATION OF THE EGYPTIAN FRUIT BAT. , 2014, , .		0
88	Plants’ ability to sense and respond to airborne sound is likely to be adaptive: reply to comment by Pyke et al. <i>Ecology Letters</i> , 2020, 23, 1423-1425.	6.4	0
89	Increased sugar concentration in response to a wide range of pollinator sounds can be adaptive for the plant: answer to Raguso et al. <i>Ecology Letters</i> , 2020, 23, 1553-1554.	6.4	0
90	The Robot “A Robot That Senses the World and Maps It Using Sound, Like a Bat. <i>Frontiers for Young Minds</i> , 0, 8, .	0.8	0

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91	<i>Philodendron guadarramanum</i> (Araceae), a new species from Tabasco, Mexico. <i>Phytotaxa</i> , 2020, 468, 296-300.	0.3	0