

# Fernando Montealegre-Z

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

1,147  
citations

394421

19  
h-index

434195

31  
g-index

57  
all docs

57  
docs citations

57  
times ranked

596  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wing stridulation in a Jurassic katydid (Insecta, Orthoptera) produced low-pitched musical calls to attract females. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3868-3873.	7.1	100
2	Convergent Evolution Between Insect and Mammalian Audition. <i>Science</i> , 2012, 338, 968-971.	12.6	90
3	Generation of extreme ultrasonics in rainforest katydids. <i>Journal of Experimental Biology</i> , 2006, 209, 4923-4937.	1.7	78
4	Scale effects and constraints for sound production in katydids (Orthoptera: Tettigoniidae): correlated evolution between morphology and signal parameters. <i>Journal of Evolutionary Biology</i> , 2009, 22, 355-366.	1.7	70
5	The mechanics of sound production in <i>Panacanthus pallicornis</i> (Orthoptera: Tettigoniidae). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50</i> 1219-1237.	1.7	64
6	Sound radiation and wing mechanics in stridulating field crickets (Orthoptera: Gryllidae). <i>Journal of Experimental Biology</i> , 2011, 214, 2105-2117.	1.7	53
7	Mechanical phase shifters for coherent acoustic radiation in the stridulating wings of crickets: the plectrum mechanism. <i>Journal of Experimental Biology</i> , 2009, 212, 257-269.	1.7	41
8	The spiny devil katydids, <i>Panacanthus Walker</i> (Orthoptera: Tettigoniidae): an evolutionary study of acoustic behaviour and morphological traits. <i>Systematic Entomology</i> , 2004, 29, 21-57.	3.9	36
9	Changing resonator geometry to boost sound power decouples size and song frequency in a small insect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1444-52.	7.1	36
10	Biomechanics of hearing in katydids. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2015, 201, 5-18.	1.6	36
11	Shrinking Wings for Ultrasonic Pitch Production: Hyperintense Ultra-Short-Wavelength Calls in a New Genus of Neotropical Katydid (Orthoptera: Tettigoniidae). <i>PLoS ONE</i> , 2014, 9, e98708.	2.5	32
12	Resonant Sound Production in <i>Copiphora gorgonensis</i> (Tettigoniidae: Copiphorini), an Endemic Species from Parque Nacional Natural Gorgona, Colombia. <i>Journal of Orthoptera Research</i> , 2010, 19, 347-355.	1.0	30
13	Resonating feathers produce courtship song. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 835-841.	2.6	28
14	Reverse stridulatory wing motion produces highly resonant calls in a neotropical katydid (Orthoptera: Tettigoniidae: Pseudophyllinae). <i>Journal of Insect Physiology</i> , 2012, 58, 116-124.	2.0	28
15	Mechanisms of high frequency song generation in brachypterous crickets and the role of ghost frequencies. <i>Journal of Experimental Biology</i> , 2013, 216, 2001-11.	1.7	28
16	A silent orchestra: convergent song loss in Hawaiian crickets is repeated, morphologically varied, and widespread. <i>Ecology</i> , 2019, 100, e02694.	3.2	25
17	Auditory mechanics in a bush-cricket: direct evidence of dual sound inputs in the pressure difference receiver. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20160560.	3.4	24
18	Evidence of auditory insensitivity to vocalization frequencies in two frogs. <i>Scientific Reports</i> , 2017, 7, 12121.	3.3	24

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19	Morphological determinants of signal carrier frequency in katydids (Orthoptera): a comparative analysis using biophysical evidence of wing vibration. <i>Journal of Evolutionary Biology</i> , 2017, 30, 2068-2078.	1.7	22
20	Quality calls: phylogeny and biogeography of a new genus of neotropical katydid (Orthoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	1.2	20
21	Testing the role of trait reversal in evolutionary diversification using song loss in wild crickets. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8941-8949.	7.1	19
22	Mechanical response of the tympanal membranes of the tree cricket <i>Oecanthus henryi</i> . <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2009, 195, 453-462.	1.6	18
23	Wing mechanics, vibrational and acoustic communication in a new bush-cricket species of the genus <i>Copiphora</i> (Orthoptera: Tettigoniidae) from Colombia. <i>Zoologischer Anzeiger</i> , 2016, 263, 55-65.	0.9	17
24	Functional morphology of tegmina-based stridulation in the relict species <i>Cyphoderris monstrosa</i> (Orthoptera: Ensifera: Prophalangopsidae). <i>Journal of Experimental Biology</i> , 2017, 220, 1112-1121.	1.7	17
25	Checklist and new distribution records of katydids (Orthoptera: Tettigoniidae) from Colombia. <i>Zootaxa</i> , 2011, 3023, 1.	0.5	15
26	Biomechanical properties of a buzz-pollinated flower. <i>Royal Society Open Science</i> , 2020, 7, 201010.	2.4	15
27	The Auditory Mechanics of the Outer Ear of the Bush Cricket: A Numerical Approach. <i>Biophysical Journal</i> , 2020, 118, 464-475.	0.5	14
28	<i>Panoploscelis specularis</i> (Orthoptera: Tettigoniidae: Pseudophyllinae): extraordinary female sound generator, male description, male protest and calling signals. <i>Journal of Orthoptera Research</i> , 2003, 12, 173-181.	1.0	12
29	Tympanal mechanics and neural responses in the ears of a noctuid moth. <i>Die Naturwissenschaften</i> , 2011, 98, 1057-1061.	1.6	12
30	Non-invasive biophysical measurement of travelling waves in the insect inner ear. <i>Royal Society Open Science</i> , 2017, 4, 170171.	2.4	12
31	A narrow ear canal reduces sound velocity to create additional acoustic inputs in a microscale insect ear. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	12
32	Chamber music “ An unusual Helmholtz resonator for song amplification in a Neotropical bush-cricket (Orthoptera, Tettigoniidae). <i>Journal of Experimental Biology</i> , 2017, 220, 2900-2907.	1.7	11
33	Structural biomechanics determine spectral purity of bush-cricket calls. <i>Biology Letters</i> , 2017, 13, 20170573.	2.3	11
34	Variation in the natural frequency of stamens in six morphologically diverse, buzz-pollinated, heterantherous <i>Solanum</i> taxa and its relationship to bee vibrations. <i>Botanical Journal of the Linnean Society</i> , 2021, 197, 541-553.	1.6	10
35	Mechanical filtering for narrow-band hearing in the weta. <i>Journal of Experimental Biology</i> , 2011, 214, 778-785.	1.7	8
36	Ultrasonic reverse stridulation in the spider-like katydid <i>Arachnoscelis</i> (Orthoptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Jd (Listros	1.7	8

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37	Lack of correlation between vertical distribution and carrier frequency, and preference for open spaces in arboreal katydids that use extreme ultrasound, in Gorgona, Colombia (Orthoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.1	6
38	Determinants of Male Spacing Behaviour in <i>Panacanthus pallicornis</i> (Orthoptera: Tettigoniidae). <i>Ethology</i> , 2007, 113, 1158-1172.	1.1	6
39	On the tympanic membrane impedance of the katydid <i>Copiphora gorgonensis</i> (Insecta: Orthoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	1.1	6
40	Wing resonances in a new dead-leaf-mimic katydid (Tettigoniidae: Pterochrozinae) from the Andean cloud forests. <i>Zoologischer Anzeiger</i> , 2017, 270, 60-70.	0.9	5
41	Ultrasonic songs and stridulum anatomy of <i>Asiophlugis</i> crystal predatory katydids (Tettigoniodea: Meconematinae: Phlugidini). <i>Bioacoustics</i> , 2020, 29, 619-637.	1.7	5
42	Tenors Not Sopranos: Bio-Mechanical Constraints on Calling Song Frequencies in the Mediterranean Field-Cricket. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	5
43	Differentiation between left and right wing stridulatory files in the field cricket <i>Gryllus bimaculatus</i> (Orthoptera: Gryllidae). <i>Arthropod Structure and Development</i> , 2021, 65, 101076.	1.4	5
44	The ander's organ: a mechanism for anti-predator ultrasound in a relict orthopteran. <i>Journal of Experimental Biology</i> , 2021, 224, .	1.7	5
45	Complex wing motion during stridulation in the katydid <i>Nastonotus foreli</i> (Orthoptera: Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.0	4
46	The spider-like katydid <i>Arachnoscelis</i> (Orthoptera: Tettigoniidae: Listroscelidinae): anatomical study of the genus. <i>Zootaxa</i> , 2013, 3666, 591-600.	0.5	3
47	Distribution of sound pressure around a singing cricket: radiation pattern and asymmetry in the sound field. <i>Bioacoustics</i> , 2016, 25, 161-176.	1.7	3
48	Editorial: Evolutionary Biomechanics of Sound Production and Reception. <i>Frontiers in Ecology and Evolution</i> , 2021, 9, .	2.2	3
49	Auditory mechanics in the grig ( <i>Cyphoderris monstrosa</i> ): tympanal travelling waves and frequency discrimination as a precursor to inner ear tonotopy. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2022, 289, 20220398.	2.6	3
50	Bioacoustic and biophysical analysis of a newly described highly transparent genus of predatory katydids from the Andean cloud forest (Orthoptera: Tettigoniidae: Meconematinae: Phlugidini). <i>Bioacoustics</i> , 2021, 30, 93-109.	1.7	2
51	Endless forms most hidden: katydids that masquerade as moss. <i>Ecology</i> , 2017, 98, 2479-2481.	3.2	1