

Coen P H Elemans

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

33
papers

1,018
citations

16
h-index

31
g-index

40
ext. papers

1,315
ext. citations

7.7
avg. IF

4.42
L-index

#	Paper	IF	Citations
33	Aerodynamics and motor control of ultrasonic vocalizations for social communication in mice and rats.. <i>BMC Biology</i> , 2022 , 20, 3	7.3	0
32	Syringeal vocal folds do not have a voice in zebra finch vocal development. <i>Scientific Reports</i> , 2021 , 11, 6469	4.9	1
31	One-to-one innervation of vocal muscles allows precise control of birdsong. <i>Current Biology</i> , 2021 , 31, 3115-3124.e5	6.3	2
30	Increasing Muscle Speed Drives Changes in the Neuromuscular Transform of Motor Commands during Postnatal Development in Songbirds. <i>Journal of Neuroscience</i> , 2020 , 40, 6722-6731	6.6	4
29	High-fidelity continuum modeling predicts avian voiced sound production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 4718-4723	11.5	2
28	Vocal state change through laryngeal development. <i>Nature Communications</i> , 2019 , 10, 4592	17.4	15
27	Vocal Motor Performance in Birdsong Requires Brain-Body Interaction. <i>ENeuro</i> , 2019 , 6,	3.9	6
26	The return to water in ancestral was accompanied by a novel mechanism for producing and shaping vocal signals. <i>ELife</i> , 2019 , 8,	8.9	10
25	Quantifying syringeal dynamics using electroglottography. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	2
24	The last common ancestor of animals lacked the HIF pathway and respired in low-oxygen environments. <i>ELife</i> , 2018 , 7,	8.9	50
23	Motor control by precisely timed spike patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 1171-1176	11.5	55
22	Oilbirds produce echolocation signals beyond their best hearing range and adjust signal design to natural light conditions. <i>Royal Society Open Science</i> , 2017 , 4, 170255	3.3	7
21	Fundamental constraints in synchronous muscle limit superfast motor control in vertebrates. <i>ELife</i> , 2017 , 6,	8.9	20
20	In situ vocal fold properties and pitch prediction by dynamic actuation of the songbird syrinx. <i>Scientific Reports</i> , 2017 , 7, 11296	4.9	11
19	Plasticity in mitochondrial cristae density allows metabolic capacity modulation in human skeletal muscle. <i>Journal of Physiology</i> , 2017 , 595, 2839-2847	3.9	90
18	Semicircular Canals Circumvent Brownian Motion Overload of Mechanoreceptor Hair Cells. <i>PLoS ONE</i> , 2016 , 11, e0159427	3.7	5
17	Embodied Motor Control of Avian Vocal Production. <i>Springer Handbook of Auditory Research</i> , 2016 , 119-157		13

16	Mice produce ultrasonic vocalizations by intra-laryngeal planar impinging jets. <i>Current Biology</i> , 2016 , 26, R880-R881	6.3	47
15	Multifunctional and Context-Dependent Control of Vocal Acoustics by Individual Muscles. <i>Journal of Neuroscience</i> , 2015 , 35, 14183-94	6.6	27
14	The singer and the song: the neuromechanics of avian sound production. <i>Current Opinion in Neurobiology</i> , 2014 , 28, 172-8	7.6	34
13	Vocal production complexity correlates with neural instructions in the oyster toadfish (<i>Opsanus tau</i>). <i>Journal of Experimental Biology</i> , 2014 , 217, 1887-93	3	11
12	The songbird syrinx morphome: a three-dimensional, high-resolution, interactive morphological map of the zebra finch vocal organ. <i>BMC Biology</i> , 2013 , 11, 1	7.3	89
11	How the bat got its buzz. <i>Biology Letters</i> , 2013 , 9, 20121031	3.6	50
10	Superfast muscles set maximum call rate in echolocating bats. <i>Science</i> , 2011 , 333, 1885-8	33.3	78
9	Walking the line: search behavior and foraging success in ant species. <i>Behavioral Ecology</i> , 2011 , 22, 501-509	1.9	34
8	Smooth operator: avoidance of subharmonic bifurcations through mechanical mechanisms simplifies song motor control in adult zebra finches. <i>Journal of Neuroscience</i> , 2010 , 30, 13246-53	6.6	17
7	Amplitude and frequency modulation control of sound production in a mechanical model of the avian syrinx. <i>Journal of Experimental Biology</i> , 2009 , 212, 1212-24	3	15
6	Biomechanics and control of vocalization in a non-songbird. <i>Journal of the Royal Society Interface</i> , 2008 , 5, 691-703	4.1	30
5	SPECTROGRAM ANALYSIS OF ANIMAL SOUND PRODUCTION. <i>Bioacoustics</i> , 2008 , 18, 183-212	1.6	14
4	Superfast vocal muscles control song production in songbirds. <i>PLoS ONE</i> , 2008 , 3, e2581	3.7	79
3	Parasitic inhibition of cell death facilitates symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 213-5	11.5	142
2	Bird song: superfast muscles control dove whirr. <i>Nature</i> , 2004 , 431, 146	50.4	45
1	Quantitative modelling of the biomechanics of the avian syrinx. <i>Animal Biology</i> , 2003 , 53, 183-193	0.7	10