

Andrew Farnsworth

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,215
citations

147786

31
h-index

168376

53
g-index

172
all docs

172
docs citations

172
times ranked

3014
citing authors

#	ARTICLE	IF	CITATIONS
1	Meteorological Data Policies Needed to Support Biodiversity Monitoring with Weather Radar. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E1234-E1242.	3.3	1
2	Extreme uncertainty and unquantifiable bias do not inform population sizes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2113862119.	7.1	11
3	The role of artificial light at night and road density in predicting the seasonal occurrence of nocturnally migrating birds. <i>Diversity and Distributions</i> , 2022, 28, 992-1009.	4.1	11
4	A place to land: spatiotemporal drivers of stopover habitat use by migrating birds. <i>Ecology Letters</i> , 2021, 24, 38-49.	6.4	37
5	Predicting bird-aircraft collisions with weather radar. <i>Journal of Applied Ecology</i> , 2021, 58, 1593-1601.	4.0	8
6	Weather radars' role in biodiversity monitoring. <i>Science</i> , 2021, 372, 248-248.	12.6	9
7	Drivers of fatal bird collisions in an urban center. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	51
8	Near-term ecological forecasting for dynamic aeroconservation of migratory birds. <i>Conservation Biology</i> , 2021, 35, 1777-1786.	4.7	23
9	Bird strikes at commercial airports explained by citizen science and weather radar data. <i>Journal of Applied Ecology</i> , 2021, 58, 2029-2039.	4.0	14
10	Winds aloft over three water bodies influence spring stopover distributions of migrating birds along the Gulf of Mexico coast. <i>Auk</i> , 2021, 138, .	1.4	3
11	Phenology of nocturnal avian migration has shifted at the continental scale. <i>Nature Climate Change</i> , 2020, 10, 63-68.	18.8	86
12	Chirping up the Right Tree: Incorporating Biological Taxonomies into Deep Bioacoustic Classifiers. , 2020, , .		18
13	Broad-Scale Weather Patterns Encountered during Flight Influence Landbird Stopover Distributions. <i>Remote Sensing</i> , 2020, 12, 565.	4.0	18
14	Learning the Helix Topology of Musical Pitch. , 2020, , .		2
15	Robust sound event detection in bioacoustic sensor networks. <i>PLoS ONE</i> , 2019, 14, e0214168.	2.5	56
16	M^{ist}N^{et}: Measuring historical bird migration in the US using archived weather radar data and convolutional neural networks. <i>Methods in Ecology and Evolution</i> , 2019, 10, 1908-1922.	5.2	40
17	Computational sustainability. <i>Communications of the ACM</i> , 2019, 62, 56-65.	4.5	49
18	Migratory flight on the Pacific Flyway: strategies and tendencies of wind drift compensation. <i>Biology Letters</i> , 2019, 15, 20190383.	2.3	7

#	ARTICLE	IF	CITATIONS
19	Holding steady: Little change in intensity or timing of bird migration over the Gulf of Mexico. <i>Global Change Biology</i> , 2019, 25, 1106-1118.	9.5	59
20	Bright lights in the big cities: migratory birds's exposure to artificial light. <i>Frontiers in Ecology and the Environment</i> , 2019, 17, 209-214.	4.0	84
21	Nocturnal flight-calling behaviour predicts vulnerability to artificial light in migratory birds. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20190364.	2.6	41
22	bioRad: biological analysis and visualization of weather radar data. <i>Ecography</i> , 2019, 42, 852-860.	4.5	47
23	The grand challenges of migration ecology that radar aeroecology can help answer. <i>Ecography</i> , 2019, 42, 861-875.	4.5	61
24	Per-Channel Energy Normalization: Why and How. <i>IEEE Signal Processing Letters</i> , 2019, 26, 39-43.	3.6	46
25	Inherent limits of light-level geolocation may lead to over-interpretation. <i>Current Biology</i> , 2018, 28, R99-R100.	3.9	27
26	Birdvox-Full-Night: A Dataset and Benchmark for Avian Flight Call Detection. , 2018, , .		21
27	Aeroecology of a solar eclipse. <i>Biology Letters</i> , 2018, 14, 20180485.	2.3	4
28	Seasonal abundance and survival of North America's migratory avifauna determined by weather radar. <i>Nature Ecology and Evolution</i> , 2018, 2, 1603-1609.	7.8	99
29	Navigating north: how body mass and winds shape avian flight behaviours across a North American migratory flyway. <i>Ecology Letters</i> , 2018, 21, 1055-1064.	6.4	37
30	Using open access observational data for conservation action: A case study for birds. <i>Biological Conservation</i> , 2017, 208, 5-14.	4.1	131
31	How do en route events around the Gulf of Mexico influence migratory landbird populations?. <i>Condor</i> , 2017, 119, 327-343.	1.6	44
32	High-intensity urban light installation dramatically alters nocturnal bird migration. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11175-11180.	7.1	192
33	Seasonal associations with urban light pollution for nocturnally migrating bird populations. <i>Global Change Biology</i> , 2017, 23, 4609-4619.	9.5	94
34	Fusing shallow and deep learning for bioacoustic bird species classification. , 2017, , .		42
35	Innovative Visualizations Shed Light on Avian Nocturnal Migration. <i>PLoS ONE</i> , 2016, 11, e0160106.	2.5	14
36	The implications of mid-latitude climate extremes for North American migratory bird populations. <i>Ecosphere</i> , 2016, 7, e01261.	2.2	17

#	ARTICLE	IF	CITATIONS
37	Detecting Migrating Birds at Night. , 2016, , .		3
38	Seasonal differences in landbird migration strategies. <i>Auk</i> , 2016, 133, 761-769.	1.4	51
39	Wind drift explains the reoriented morning flights of songbirds. <i>Behavioral Ecology</i> , 2016, 27, 1122-1131.	2.2	21
40	Where in the air? Aerial habitat use of nocturnally migrating birds. <i>Biology Letters</i> , 2016, 12, 20160591.	2.3	23
41	Nocturnally migrating songbirds drift when they can and compensate when they must. <i>Scientific Reports</i> , 2016, 6, 21249.	3.3	69
42	A characterization of autumn nocturnal migration detected by weather surveillance radars in the northeastern <sc>USA</sc>. <i>Ecological Applications</i> , 2016, 26, 752-770.	3.8	49
43	Can Nocturnal Flight Calls of the Migrating Songbird, American Redstart, Encode Sexual Dimorphism and Individual Identity?. <i>PLoS ONE</i> , 2016, 11, e0156578.	2.5	11
44	Towards the Automatic Classification of Avian Flight Calls for Bioacoustic Monitoring. <i>PLoS ONE</i> , 2016, 11, e0166866.	2.5	71
45	Seasonal changes in the altitudinal distribution of nocturnally migrating birds during autumn migration. <i>Royal Society Open Science</i> , 2015, 2, 150347.	2.4	29
46	Warmer Summers and Drier Winters Correlate with More Winter Vagrant Purple Gallinules (<i>Porphyrio martinicus</i>) in the North Atlantic Region. <i>Wilson Journal of Ornithology</i> , 2015, 127, 582-592.	0.2	2
47	Documenting stewardship responsibilities across the annual cycle for birds on U.S. public lands. , 2015, 25, 39-51.		15
48	Migration timing and its determinants for nocturnal migratory birds during autumn migration. <i>Journal of Animal Ecology</i> , 2015, 84, 1202-1212.	2.8	55
49	Autumn morning flights of migrant songbirds in the northeastern United States are linked to nocturnal migration and winds aloft. <i>Auk</i> , 2015, 132, 105-118.	1.4	20
50	Reconstructing Velocities of Migrating Birds from Weather Radar â€“ A Case Study in Computational Sustainability. <i>AI Magazine</i> , 2014, 35, 31-48.	1.6	14
51	A comparison of similarity-based approaches in the classification of flight calls of four species of North American wood-warblers (<i>Parulidae</i>). <i>Ecological Informatics</i> , 2014, 21, 25-33.	5.2	35
52	The role of atmospheric conditions in the seasonal dynamics of North American migration flyways. <i>Journal of Biogeography</i> , 2014, 41, 1685-1696.	3.0	102
53	The eBird enterprise: An integrated approach to development and application of citizen science. <i>Biological Conservation</i> , 2014, 169, 31-40.	4.1	703
54	Use of a Bacteriophage Lysin to Identify a Novel Target for Antimicrobial Development. <i>PLoS ONE</i> , 2013, 8, e60754.	2.5	41

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55	Research priorities for wind energy and migratory wildlife. <i>Journal of Wildlife Management</i> , 2012, 76, 451-456.	1.8	33
56	Cuban Green Woodpecker (<i>Xiphidiopicus percussus</i>). , 2012, , .		0
57	Bayesian Classification of Flight Calls with a Novel Dynamic Time Warping Kernel. , 2010, , .		9
58	Black-capped Petrel (<i>Pterodroma hasitata</i>). , 2010, , .		2
59	Revealing Undocumented or Poorly Known Flight Calls of Warblers (Parulidae) Using a Novel Method of Recording Birds in Captivity. <i>Auk</i> , 2009, 126, 511-519.	1.4	24
60	Green-throated Carib (<i>Eulampis holosericeus</i>). , 2009, , .		0
61	Cuban Tody (<i>Todus multicolor</i>). , 2009, , .		0
62	Whistling Warbler (<i>Catharopeza bishopi</i>). , 2009, , .		0
63	FLIGHT CALLS OF WOOD-WARBLEDERS ARE NOT EXCLUSIVELY ASSOCIATED WITH MIGRATORY BEHAVIORS. <i>Wilson Journal of Ornithology</i> , 2007, 119, 334-341.	0.2	15
64	Monitoring flight calls of migrating birds from an oil platform in the northern Gulf of Mexico. <i>Journal of Field Ornithology</i> , 2007, 78, 279-289.	0.5	36
65	Evolution of nocturnal flight calls in migrating wood-warblers: apparent lack of morphological constraints. <i>Journal of Avian Biology</i> , 2005, 36, 337-347.	1.2	26
66	Flight Calls and Their Value for Future Ornithological Studies and Conservation Research. <i>Auk</i> , 2005, 122, 733-746.	1.4	68
67	FLIGHT CALLS AND THEIR VALUE FOR FUTURE ORNITHOLOGICAL STUDIES AND CONSERVATION RESEARCH. <i>Auk</i> , 2005, 122, 733.	1.4	70
68	A comparison of nocturnal call counts of migrating birds and reflectivity measurements on Doppler radar. <i>Journal of Avian Biology</i> , 2004, 35, 365-369.	1.2	71
69	Phylogenetic and ecological effects on interspecific variation in structurally simple avian vocalizations. <i>Biological Journal of the Linnean Society</i> , 0, 94, 155-173.	1.6	30
70	A characterization of autumn nocturnal migration detected by weather surveillance radars in the northeastern US. , 0, , 150831153552001.		3