Frank W Davis

List of Publications by Year in Descending Order

Source: https://exaly.com/author-pdf/4618657/frank-w-davis-publications-by-year.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

103 5,704 39 74 h-index g-index citations papers 108 6,311 5.42 5.3 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
103	Synergies Among Environmental Science Research and Monitoring Networks: A Research Agenda. <i>Earthi</i> s <i>Future</i> , 2021 , 9, e2020EF001631	7.9	2
102	Does short-interval fire inhibit postfire recovery of chaparral across southern California?. <i>Science of the Total Environment</i> , 2021 , 751, 142271	10.2	5
101	Geographic Object-Based Image Analysis Framework for Mapping Vegetation Physiognomic Types at Fine Scales in Neotropical Savannas. <i>Remote Sensing</i> , 2020 , 12, 1721	5	4
100	Scalable mapping and monitoring of Mediterranean-climate oak landscapes with temporal mixture models. <i>Remote Sensing of Environment</i> , 2020 , 247, 111937	13.2	6
99	More Trees Are Dying Due to Drought and Wildfire but Do Not Lose Sight of Forest Pathogens. <i>Earthi</i> s <i>Future</i> , 2020 , 8, e2020EF001792	7.9	
98	Evaluating Drought Impact on Postfire Recovery of Chaparral Across Southern California. <i>Ecosystems</i> , 2020 , 2020, 806	3.9	5
97	Increasing the Impact of Public Engagement Within and Beyond the Ecological Society of America. <i>Bulletin of the Ecological Society of America</i> , 2020 , 101, e01773	0.7	1
96	Demography of evergreen and deciduous oaks in a mixed oak savanna: insights from a long-term experiment. <i>Ecosphere</i> , 2019 , 10, e02570	3.1	5
95	The terrestrial organism and biogeochemistry spatial sampling design for the National Ecological Observatory Network. <i>Ecosphere</i> , 2019 , 10, e02540	3.1	8
94	LiDAR-derived topography and forest structure predict fine-scale variation in daily surface temperatures in oak savanna and conifer forest landscapes. <i>Agricultural and Forest Meteorology</i> , 2019 , 269-270, 192-202	5.8	13
93	Implementation strategies for systematic conservation planning. <i>Ambio</i> , 2019 , 48, 139-152	6.5	25
92	A Convolutional Neural Network Classifier Identifies Tree Species in Mixed-Conifer Forest from Hyperspectral Imagery. <i>Remote Sensing</i> , 2019 , 11, 2326	5	61
91	More than climate? Predictors of tree canopy height vary with scale in complex terrain, Sierra Nevada, CA (USA). <i>Forest Ecology and Management</i> , 2019 , 434, 142-153	3.9	17
90	Satellite sensor requirements for monitoring essential biodiversity variables of coastal ecosystems 2018 , 28, 749-760		69
89	Synthesis Centers as Critical Research Infrastructure. <i>BioScience</i> , 2017 , 67, 750-759	5.7	29
88	A range of possibilities: Assessing geographic variation in climate sensitivity of ponderosa pine using tree rings. <i>Forest Ecology and Management</i> , 2017 , 402, 223-233	3.9	27
87	Foundations of translational ecology. Frontiers in Ecology and the Environment, 2017, 15, 541-550	5.5	148

86	Developing a translational ecology workforce. Frontiers in Ecology and the Environment, 2017, 15, 587-5	96 5	34
85	Monitoring plant functional diversity from space. <i>Nature Plants</i> , 2016 , 2, 16024	11.5	164
84	High and dry: high elevations disproportionately exposed to regional climate change in Mediterranean-climate landscapes. <i>Landscape Ecology</i> , 2016 , 31, 1063-1075	4.3	35
83	Landscape effects on wild Bombus terrestris (Hymenoptera: Apidae) queens visiting highbush blueberry fields in south-central Chile. <i>Apidologie</i> , 2016 , 47, 711-716	2.3	8
82	California forests show early indications of both range shifts and local persistence under climate change. <i>Global Ecology and Biogeography</i> , 2016 , 25, 164-175	6.1	16
81	Averaged 30 year climate change projections mask opportunities for species establishment. <i>Ecography</i> , 2016 , 39, 844-845	6.5	20
80	The impacts of increasing drought on forest dynamics, structure, and biodiversity in the United States. <i>Global Change Biology</i> , 2016 , 22, 2329-52	11.4	297
79	Shrinking windows of opportunity for oak seedling establishment in southern California mountains. <i>Ecosphere</i> , 2016 , 7, e01573	3.1	21
78	A riparian conservation network for ecological resilience. <i>Biological Conservation</i> , 2015 , 191, 29-37	6.2	47
77	Tree mortality predicted from drought-induced vascular damage. <i>Nature Geoscience</i> , 2015 , 8, 367-371	18.3	245
76	Can Orchards Help Connect Mediterranean Ecosystems? Animal Movement Data Alter Conservation Priorities. <i>American Midland Naturalist</i> , 2015 , 174, 105-116	0.7	6
75	Adapting California's Ecosystems to a Changing Climate. <i>BioScience</i> , 2015 , 65, 247-262	5.7	18
74	Conservation Planning for Offsetting the Impacts of Development: A Case Study of Biodiversity and Renewable Energy in the Mojave Desert. <i>PLoS ONE</i> , 2015 , 10, e0140226	3.7	16
73	Bioclimatic velocity: the pace of species exposure to climate change. <i>Diversity and Distributions</i> , 2014 , 20, 169-180	5	49
72	Adapting to climate change in California. Bulletin of the Atomic Scientists, 2014, 70, 62-73	1.6	2
71	Optimization in the utility maximization framework for conservation planning: a comparison of solution procedures in a study of multifunctional agriculture. <i>PeerJ</i> , 2014 , 2, e690	3.1	6
70	Siting solar energy development to minimize biological impacts. <i>Renewable Energy</i> , 2013 , 57, 289-298	8.1	57
69	Cross-scale modeling of surface temperature and tree seedling establishment in mountain landscapes. <i>Ecological Processes</i> , 2013 , 2,	3.6	22

68	Modeling plant species distributions under future climates: how fine scale do climate projections need to be?. <i>Global Change Biology</i> , 2013 , 19, 473-83	11.4	237
67	Disturbance, Mechanisms of 2013 , 562-567		1
66	Carnivore use of avocado orchards across an agricultural-wildland gradient. <i>PLoS ONE</i> , 2013 , 8, e68025	3.7	15
65	Modeling wildlife and other trade-offs with biofuel crop production. <i>GCB Bioenergy</i> , 2012 , 4, 330-341	5.6	22
64	A State-Based National Network for Effective Wildlife Conservation. <i>BioScience</i> , 2012 , 62, 970-976	5.7	11
63	Consumer control of oak demography in a Mediterranean-climate savanna. <i>Ecosphere</i> , 2011 , 2, art108	3.1	20
62	Shifting Baselines in a California Oak Savanna: Nineteenth Century Data to Inform Restoration Scenarios. <i>Restoration Ecology</i> , 2011 , 19, 88-101	3.1	33
61	The power of information for targeting cost-effective conservation investments in multifunctional farmlands. <i>Environmental Modelling and Software</i> , 2011 , 26, 8-17	5.2	9
60	Gene movement and genetic association with regional climate gradients in California valley oak (Quercus lobata NB) in the face of climate change. <i>Molecular Ecology</i> , 2010 , 19, 3806-23	5.7	180
59	Pre-impact forest composition and ongoing tree mortality associated with sudden oak death in the Big Sur region; California. <i>Forest Ecology and Management</i> , 2010 , 259, 2342-2354	3.9	42
58	Coupling GIS and LCA for biodiversity assessments of land use. <i>International Journal of Life Cycle Assessment</i> , 2010 , 15, 454-467	4.6	84
57	Coupling GIS and LCA for biodiversity assessments of land use. <i>International Journal of Life Cycle Assessment</i> , 2010 , 15, 692-703	4.6	60
56	Short distance pollen movement in a wind-pollinated tree, Quercus lobata (Fagaceae). <i>Forest Ecology and Management</i> , 2009 , 258, 735-744	3.9	59
55	Strategic targeting of agricultural conservation easements as a growth management tool. <i>Land Use Policy</i> , 2009 , 26, 1149-1161	5.6	29
54	Conserving the evolutionary potential of California valley oak (Quercus lobata NB): a multivariate genetic approach to conservation planning. <i>Molecular Ecology</i> , 2008 , 17, 139-56	5.7	64
53	The relative importance of factors affecting age-specific seedling survival of two co-occurring oak species in southern California. <i>Forest Ecology and Management</i> , 2008 , 255, 3063-3074	3.9	38
52	Estimating anisotropic pollen dispersal: a case study in Quercus lobata. <i>Heredity</i> , 2007 , 99, 193-204	3.6	38
51	Comprehensive criteria for biodiversity evaluation in conservation planning. <i>Biodiversity and Conservation</i> , 2007 , 16, 2715-2728	3.4	48

(1998-2007)

50	Regional variation in home-range-scale habitat models for fisher (Martes pennanti) in California 2007 , 17, 2195-213		34
49	Demography and recruitment limitations of three oak species in California. <i>Quarterly Review of Biology</i> , 2006 , 81, 127-52	5.4	108
48	Efficient Conservation in a Utility-Maximization Framework. Ecology and Society, 2006, 11,	4.1	38
47	Viable Reserve Networks Arise From Individual Landholder Responses To Conservation Incentives. <i>Ecology and Society</i> , 2006 , 11,	4.1	31
46	Complexity in Ecology and Conservation: Mathematical, Statistical, and Computational Challenges. <i>BioScience</i> , 2005 , 55, 501	5.7	95
45	Science Priorities for Reducing the Threat of Invasive Species to Sustainable Forestry. <i>BioScience</i> , 2005 , 55, 335	5.7	96
44	Gene flow and fine-scale genetic structure in a wind-pollinated tree species, Quercus lobata (Fagaceaee). <i>American Journal of Botany</i> , 2005 , 92, 252-61	2.7	68
43	Integrated coastal reserve planning: making the landBea connection. <i>Frontiers in Ecology and the Environment</i> , 2005 , 3, 429-436	5.5	79
42	An introduction to biodiversity concepts for environmental economists. <i>Resources and Energy Economics</i> , 2004 , 26, 115-136	3.2	45
41	TAMARIN: a landscape framework for evaluating economic incentives for rainforest restoration. <i>Landscape and Urban Planning</i> , 2004 , 68, 95-108	7.7	18
40	Fuzzy assessment of land suitability for scientific research reserves. <i>Environmental Management</i> , 2002 , 29, 545-58	3.1	50
39	Pollen movement in declining populations of California Valley oak, Quercus lobata: where have all the fathers gone?. <i>Molecular Ecology</i> , 2002 , 11, 1657-68	5.7	193
38	NATURE RESERVES: DO THEY CAPTURE THE FULL RANGE OF AMERICAS BIOLOGICAL DIVERSITY? 2001 , 11, 999-1007		431
37	Stand Structure in Terrestrial Ecosystems 2000 , 7-30		2
36	FIRE, SOIL HEATING, AND THE FORMATION OF VEGETATION PATTERNS IN CHAPARRAL. <i>Ecological Monographs</i> , 2000 , 70, 149-169	9	137
35	FIRE, SOIL HEATING, AND THE FORMATION OF VEGETATION PATTERNS IN CHAPARRAL 2000 , 70, 149		5
34	Recruitment of Quercus agrifolia in central California: the importance of shrub-dominated patches. <i>Journal of Vegetation Science</i> , 1998 , 9, 647-656	3.1	86
33	Inclusion of a Simple Multiple Scattering Model into a Microwave Canopy Backscatter Model. Remote Sensing of Environment, 1998, 63, 101-111	13.2	6

32	Sensitivity of Modeled C- and L-Band Radar Backscatter to Ground Surface Parameters in Loblolly Pine Forest. <i>Remote Sensing of Environment</i> , 1998 , 66, 331-342	13.2	23
31	Decomposition of polarimetric synthetic aperture radar backscatter from upland and flooded forests. <i>International Journal of Remote Sensing</i> , 1997 , 18, 1319-1332	3.1	20
30	Selecting conservation reserves using species-covering models: Adapting the ARC/INFO GIS. <i>Transactions in GIS</i> , 1997 , 2, 45-60	2.1	17
29	Reserve selection as a maximal covering location problem. <i>Biological Conservation</i> , 1996 , 76, 105-112	6.2	342
28	The Nature of Gap Analysis. <i>BioScience</i> , 1996 , 46, 74-75	5.7	4
27	Scaling and uncertainty in the relationship between the NDVI and land surface biophysical variables: An analysis using a scene simulation model and data from FIFE. <i>Remote Sensing of Environment</i> , 1995 , 54, 233-246	13.2	83
26	The effects of changes in forest biomass on radar backscatter from tree canopies. <i>International Journal of Remote Sensing</i> , 1995 , 16, 503-513	3.1	36
25	The effects of changes in loblolly pine biomass and soil moisture on ERS-1 SAR backscatter. <i>Remote Sensing of Environment</i> , 1994 , 49, 25-31	13.2	37
24	Sources of variation in radiometric surface temperature over a tallgrass prairie. <i>Remote Sensing of Environment</i> , 1994 , 48, 1-17	13.2	130
23	Regression Tree Analysis of satellite and terrain data to guide vegetation sampling and surveys. <i>Journal of Vegetation Science</i> , 1994 , 5, 673-686	3.1	131
22	Distribution and conservation status of coastal sage scrub in southwestern California. <i>Journal of Vegetation Science</i> , 1994 , 5, 743-756	3.1	38
21	Applications of remote sensing and geographic information systems in vegetation science: Introduction. <i>Journal of Vegetation Science</i> , 1994 , 5, 609-614	3.1	9
20	Estimating grassland biomass and leaf area index using ground and satellite data. <i>International Journal of Remote Sensing</i> , 1994 , 15, 1401-1420	3.1	95
19	Hierarchical representations of species distributions using maps, images and sighting data 1994 , 71-88		23
18	Spatial Simulation of Fire Regime in Mediterranean-Climate Landscapes. <i>Ecological Studies</i> , 1994 , 117-1	39 .1	9
17	. IEEE Transactions on Geoscience and Remote Sensing, 1993 , 31, 871-879	8.1	13
16	Vegetation Dynamics, Fire, and the Physical Environment in Coastal Central California. <i>Ecology</i> , 1993 , 74, 1567-1578	4.6	125
15	Morphologic Variation and Age Structure in a Population of the Eastern Mole, Scalopus aquaticus. Journal of Mammalogy, 1993 , 74, 1014-1025	1.8	3

LIST OF PUBLICATIONS

14	Geographic Analysis of California Condor Sighting Data. <i>Conservation Biology</i> , 1993 , 7, 148-159	6	15
13	Modeling Fire Regime in Mediterranean Landscapes. <i>Lecture Notes in Biomathematics</i> , 1993 , 247-259		4
12	Covariance of biophysical data with digital topographic and land use maps over the FIFE site. <i>Journal of Geophysical Research</i> , 1992 , 97, 19009		29
11	Thematic mapper analysis of tree cover in semiarid woodlands using a model of canopy shadowing. <i>Remote Sensing of Environment</i> , 1991 , 36, 189-202	13.2	25
10	Modeling vegetation pattern using digital terrain data. Landscape Ecology, 1990, 4, 69-80	4.3	125
9	An information systems approach to the preservation of biological diversity. <i>International Journal of Geographical Information Science</i> , 1990 , 4, 55-78	4.1	63
8	Topographic distribution of clear-sky radiation over the Konza Prairie, Kansas. <i>Water Resources Research</i> , 1990 , 26, 679-690	5.4	9
7	Interactions of Factors Affecting Seedling Recruitment of Blue Oak (Quercus Douglasii) in California. <i>Ecology</i> , 1989 , 70, 389-404	4.6	110
6	Establishment of microscale vegetation pattern in maritime chaparral after fire. <i>Plant Ecology</i> , 1989 , 84, 53-67		34
5	CLIMATE RESPONSE FUNCTIONS FOR BIGCONE SPRUCE: A MEDITERRANEAN CLIMATE CONIFER. <i>Physical Geography</i> , 1988 , 9, 81-97	1.8	6
4	400 YEARS OF CENTRAL CALIFORNIA PRECIPITATION VARIABILITY RECONSTRUCTED FROM TREE-RINGS1. <i>Journal of the American Water Resources Association</i> , 1987 , 23, 809-818	2.1	43
3	Performance analysis of image processing algorithms for classification of natural vegetation in the mountains of Southern California. <i>International Journal of Remote Sensing</i> , 1986 , 7, 683-702	3.1	18
2	Historical Changes in Submerged Macrophyte Communities of Upper Chesapeake Bay. <i>Ecology</i> , 1985 , 66, 981-993	4.6	36
1	Stratigraphic Evidence of Human Disturbance in an Estuary. <i>Quaternary Research</i> , 1984 , 22, 91-108	1.9	40