

Josh Viers

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.

86
papers

3,713
citations

34
h-index

60
g-index

99
ext. papers

4,310
ext. citations

4.7
avg, IF

5.51
L-index

#	Paper	IF	Citations
86	Simulating Polyculture Farming to Learn Automation Policies for Plant Diversity and Precision Irrigation. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022 , 1-13	4.9	
85	Special report: The AgAID AI institute for transforming workforce and decision support in agriculture. <i>Computers and Electronics in Agriculture</i> , 2022 , 197, 106944	6.5	0
84	Learning Seed Placements and Automation Policies for Polyculture Farming with Companion Plants 2021 ,		1
83	Energy and water co-benefits from covering canals with solar panels. <i>Nature Sustainability</i> , 2021 , 4, 609-617	6.17	14
82	Advances in soil moisture retrieval from multispectral remote sensing using unoccupied aircraft systems and machine learning techniques. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 2739-2758	5.5	6
81	Flowing from East to West: A bibliometric analysis of recent advances in environmental flow science in China. <i>Ecological Indicators</i> , 2021 , 125, 107358	5.8	3
80	Ecosystem services in vineyard landscapes: a focus on aboveground carbon storage and accumulation. <i>Carbon Balance and Management</i> , 2020 , 15, 23	3.6	4
79	sUAS Remote Sensing of Vineyard Evapotranspiration Quantifies Spatiotemporal Uncertainty in Satellite-Borne ET Estimates. <i>Remote Sensing</i> , 2020 , 12, 3251	5	3
78	Dynamic river processes drive variability in particulate organic matter over fine spatiotemporal scales. <i>Freshwater Biology</i> , 2020 , 65, 1569-1584	3.1	0
77	Interaction of restored hydrological connectivity and herbicide suppresses dominance of a floodplain invasive species. <i>Restoration Ecology</i> , 2020 , 28, 1551-1560	3.1	
76	A glass half empty: Limited voices, limited groundwater security for California. <i>Science of the Total Environment</i> , 2020 , 738, 139529	10.2	6
75	Exploring the multiscale hydrologic regulation of multipond systems in a humid agricultural catchment. <i>Water Research</i> , 2020 , 184, 115987	12.5	8
74	Coupling landscapes and river flows to restore highly modified rivers. <i>Water Resources Research</i> , 2019 , 55, 4512	5.4	22
73	Does More Storage Give California More Water?. <i>Journal of the American Water Resources Association</i> , 2019 , 55, 759-771	2.1	3
72	RAPID-MOLT: A Meso-scale, Open-source, Low-cost Testbed for Robot Assisted Precision Irrigation and Delivery 2019 ,		3
71	Human-induced and natural carbon storage in floodplains of the Central Valley of California. <i>Science of the Total Environment</i> , 2019 , 651, 851-858	10.2	13
70	A freshwater conservation blueprint for California: prioritizing watersheds for freshwater biodiversity. <i>Freshwater Science</i> , 2018 , 37, 417-431	2	7

69	Towards Automating Precision Irrigation: Deep Learning to Infer Local Soil Moisture Conditions from Synthetic Aerial Agricultural Images 2018 ,		11
68	Nanotechnology for sustainable food production: promising opportunities and scientific challenges. <i>Environmental Science: Nano</i> , 2017 , 4, 767-781	7.1	148
67	From berries to blocks: carbon stock quantification of a California vineyard. <i>Carbon Balance and Management</i> , 2017 , 12, 5	3.6	11
66	Not all breaks are equal: Variable hydrologic and geomorphic responses to intentional levee breaches along the lower Cosumnes River, California. <i>River Research and Applications</i> , 2017 , 33, 1143-1155 ³	2.3	28
65	Flood regime typology for floodplain ecosystem management as applied to the unregulated Cosumnes River of California, United States. <i>Ecohydrology</i> , 2017 , 10, e1817	2.5	13
64	Economic and policy drivers of agricultural water desalination in California's central valley. <i>Agricultural Water Management</i> , 2017 , 194, 192-203	5.9	18
63	Meeting ecosystem needs while satisfying human demands. <i>Environmental Research Letters</i> , 2017 , 12, 061001	6.2	0
62	Deep carbon storage potential of buried floodplain soils. <i>Scientific Reports</i> , 2017 , 7, 8181	4.9	18
61	Missing the Boat on Freshwater Fish Conservation in California. <i>Conservation Letters</i> , 2017 , 10, 77-85	6.9	27
60	Patterns of bird diversity and habitat use in mixed vineyard-matorral landscapes of Central Chile. <i>Ecological Indicators</i> , 2017 , 73, 345-357	5.8	20
59	Invasive Aquatic Vegetation Management in the Sacramento-San Joaquin River Delta: Status and Recommendations. <i>San Francisco Estuary and Watershed Science</i> , 2017 , 15,	1.4	3
58	Assessing Ecosystem Services and Multifunctionality for Vineyard Systems. <i>Frontiers in Environmental Science</i> , 2017 , 5,	4.8	34
57	DATE: A handheld co-robotic device for automated tuning of emitters to enable precision irrigation 2016 ,		4
56	Valuing year-to-go hydrologic forecast improvements for a peaking hydropower system in the Sierra Nevada. <i>Water Resources Research</i> , 2016 , 52, 3815-3828	5.4	12
55	Climate-Adaptive Water Year Typing for Instream Flow Requirements in California's Sierra Nevada. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 04016049	2.8	10
54	Simulation Modeling to Secure Environmental Flows in a Diversion Modified Flow Regime. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016 , 142, 05016010	2.8	2
53	Pulsed Flow Wave Attenuation on a Regulated Montane River. <i>River Research and Applications</i> , 2016 , 32, 1047-1058	2.3	1
52	The fire frequency-severity relationship and the legacy of fire suppression in California forests. <i>Ecosphere</i> , 2015 , 6, art8	3.1	152

51	Functional Flows in Modified Riverscapes: Hydrographs, Habitats and Opportunities. <i>BioScience</i> , 2015 , 65, 963-972	5.7	108
50	Combined Effects of Reservoir Operations and Climate Warming on the Flow Regime of Hydropower Bypass Reaches of California's Sierra Nevada. <i>River Research and Applications</i> , 2015 , 31, 269-279	2.3	17
49	Economic Feasibility of Irrigated Agricultural Land Use Buffers to Reduce Groundwater Nitrate in Rural Drinking Water Sources. <i>Water (Switzerland)</i> , 2015 , 7, 12-37	3	8
48	Patterns of Freshwater Species Richness, Endemism, and Vulnerability in California. <i>PLoS ONE</i> , 2015 , 10, e0130710	3.7	16
47	Systematic Screening of Dams for Environmental Flow Assessment and Implementation. <i>BioScience</i> , 2014 , 64, 1006-1018	5.7	29
46	A programmable information system for management and analysis of aquatic species range data in California. <i>Environmental Modelling and Software</i> , 2014 , 53, 13-26	5.2	12
45	Agriculture's Contribution to Nitrate Contamination of Californian Groundwater (1945-2005). <i>Journal of Environmental Quality</i> , 2014 , 43, 895-907	3.4	40
44	100 years of California's water rights system: patterns, trends and uncertainty. <i>Environmental Research Letters</i> , 2014 , 9, 084012	6.2	68
43	Simulating High-Elevation Hydropower with Regional Climate Warming in the West Slope, Sierra Nevada. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2014 , 140, 714-723	2.8	11
42	Stream temperature sensitivity to climate warming in California's Sierra Nevada: impacts to coldwater habitat. <i>Climatic Change</i> , 2013 , 116, 149-170	4.5	64
41	In bad waters: Water year classification in nonstationary climates. <i>Water Resources Research</i> , 2013 , 49, 1137-1148	5.4	36
40	A Method to Consider Whether Dams Mitigate Climate Change Effects on Stream Temperatures. <i>Journal of the American Water Resources Association</i> , 2013 , 49, 1456-1472	2.1	67
39	HYDROPOWER COSTS OF ENVIRONMENTAL FLOWS AND CLIMATE WARMING IN CALIFORNIA'S UPPER YUBA RIVER WATERSHED. <i>River Research and Applications</i> , 2013 , 29, 1291-1305	2.3	30
38	Vinecology: pairing wine with nature. <i>Conservation Letters</i> , 2013 , 6, 287-299	6.9	82
37	Modern departures in fire severity and area vary by forest type, Sierra Nevada and southern Cascades, California, USA. <i>Ecosphere</i> , 2013 , 4, art153	3.1	129
36	NON-UNIFORM CHANGES TO WHITEWATER RECREATION IN CALIFORNIA'S SIERRA NEVADA FROM REGIONAL CLIMATE WARMING. <i>River Research and Applications</i> , 2012 , 28, 1299-1311	2.3	8
35	Multiscale Patterns of Riparian Plant Diversity and Implications for Restoration. <i>Restoration Ecology</i> , 2012 , 20, 160-169	3.1	21
34	Potential impacts on hydrology and hydropower production under climate warming of the Sierra Nevada. <i>Journal of Water and Climate Change</i> , 2011 , 2, 29-43	2.3	34

33	Freshwater conservation options for a changing climate in California's Sierra Nevada. <i>Marine and Freshwater Research</i> , 2011 , 62, 266	2.2	23
32	Hydropower Relicensing and Climate Change ¹ . <i>Journal of the American Water Resources Association</i> , 2011 , 47, 655-661	2.1	53
31	Tarping as an Alternative for Perennial Pepperweed (<i>Lepidium latifolium</i>) Control. <i>Invasive Plant Science and Management</i> , 2011 , 4, 66-72	1	10
30	Environmental heterogeneity and community structure of the Kobuk River, Alaska, in response to climate change. <i>Ecosphere</i> , 2011 , 2, art44	3.1	5
29	Tropical dry forest trees and the relationship between local abundance and geographic range. <i>Journal of Biogeography</i> , 2010 , 37, 951-959	4.1	20
28	Ecology and Management of the Spring Snowmelt Recession. <i>BioScience</i> , 2010 , 60, 114-127	5.7	72
27	Using topography to meet wildlife and fuels treatment objectives in fire-suppressed landscapes. <i>Environmental Management</i> , 2010 , 46, 809-19	3.1	20
26	Hydrologic response and watershed sensitivity to climate warming in California's Sierra Nevada. <i>PLoS ONE</i> , 2010 , 5, e9932	3.7	91
25	Riparian bird response to vegetation structure: a multiscale analysis using LiDAR measurements of canopy height 2009 , 19, 1848-57		76
24	Why Climate Change Makes Riparian Restoration More Important than Ever: Recommendations for Practice and Research. <i>Ecological Restoration</i> , 2009 , 27, 330-338		114
23	Progress and challenges in freshwater conservation planning. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2009 , 19, 474-485	2.6	133
22	Modeling the Hydrology of Climate Change in California's Sierra Nevada for Subwatershed Scale Adaptation ¹ . <i>Journal of the American Water Resources Association</i> , 2009 , 45, 1409-1423	2.1	60
21	Threats and biodiversity in the mediterranean biome. <i>Diversity and Distributions</i> , 2009 , 15, 188-197	5	247
20	Spatial Patterns of Endemic Plants in California. <i>Natural Areas Journal</i> , 2009 , 29, 344-366	0.8	22
19	Favorable environments and the persistence of naturally rare species. <i>Conservation Letters</i> , 2008 , 1, 65-74	9	25
18	Objective classification of Navarro River salmon habitat: a watershed-based critical habitat case study. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2008 , 18, 147-162	2.6	3
17	Identification of invasive vegetation using hyperspectral remote sensing in the California Delta ecosystem. <i>Remote Sensing of Environment</i> , 2008 , 112, 4034-4047	13.2	227
16	Monitoring freshwater, estuarine and near-shore benthic ecosystems with multi-sensor remote sensing: An introduction to the special issue. <i>Remote Sensing of Environment</i> , 2008 , 112, 3993-3995	13.2	34

15	Productivity alters the scale dependence of the diversity-invasibility relationship. <i>Ecology</i> , 2007 , 88, 1940-7	4.7	78
14	Serpentine Grasslands 2007 , 145-155		2
13	Use of a case-control study and geographic information systems to determine environmental and demographic risk factors for canine leptospirosis. <i>Veterinary Research</i> , 2007 , 38, 37-50	3.8	49
12	Invasion in a diversity hotspot: exotic cover and native richness in the Californian serpentine flora. <i>Ecology</i> , 2006 , 87, 695-703	4.6	51
11	REGIONAL AND LOCAL SPECIES RICHNESS IN AN INSULAR ENVIRONMENT: SERPENTINE PLANTS IN CALIFORNIA. <i>Ecological Monographs</i> , 2006 , 76, 41-56	9	135
10	Biotic homogenization of the California flora in urban and urbanizing regions. <i>Biological Conservation</i> , 2006 , 127, 282-291	6.2	122
9	Hydrologic Variability of the Cosumnes River Floodplain. <i>San Francisco Estuary and Watershed Science</i> , 2006 , 4,	1.4	20
8	Human impacts, plant invasion, and imperiled plant species in California 2006 , 16, 1338-50		115
7	Beta diversity and the scale-dependence of the productivity-diversity relationship: a test in the Californian serpentine flora. <i>Journal of Ecology</i> , 2006 , 94, 110-117	6	72
6	Priming the productivity pump: flood pulse driven trends in suspended algal biomass distribution across a restored floodplain. <i>Freshwater Biology</i> , 2006 , 51, 1417-1433	3.1	67
5	SERPENTINE ENDEMISM IN THE CALIFORNIA FLORA: A DATABASE OF SERPENTINE AFFINITY. <i>Madroño</i> , 2005 , 52, 222-257	0.4	120
4	Anthropogenic impacts upon plant species richness and net primary productivity in California. <i>Ecology Letters</i> , 2004 , 8, 127-137	10	44
3	FISH INVASIONS IN CALIFORNIA WATERSHEDS: TESTING HYPOTHESES USING LANDSCAPE PATTERNS 2004 , 14, 1507-1525		129
2	Homogenization of California's Fish Fauna Through Abiotic Change 2001 , 259-278		50
1	Climatic and spatial patterns of diversity in the serpentine plants of California. <i>Diversity and Distributions</i> , 2000 , 6, 153-162	5	36