

Josh Viers

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

4,878
citations

109137

35
h-index

106150

65
g-index

99
all docs

99
docs citations

99
times ranked

6463
citing authors

#	ARTICLE	IF	CITATIONS
1	Threats and biodiversity in the mediterranean biome. Diversity and Distributions, 2009, 15, 188-197.	1.9	300
2	Identification of invasive vegetation using hyperspectral remote sensing in the California Delta ecosystem. Remote Sensing of Environment, 2008, 112, 4034-4047.	4.6	272
3	The fire frequency-severity relationship and the legacy of fire suppression in California forests. Ecosphere, 2015, 6, 1-23.	1.0	206
4	Nanotechnology for sustainable food production: promising opportunities and scientific challenges. Environmental Science: Nano, 2017, 4, 767-781.	2.2	202
5	Functional Flows in Modified Riverscapes: Hydrographs, Habitats and Opportunities. BioScience, 2015, 65, 963-972.	2.2	177
6	Progress and challenges in freshwater conservation planning. Aquatic Conservation: Marine and Freshwater Ecosystems, 2009, 19, 474-485.	0.9	169
7	Why Climate Change Makes Riparian Restoration More Important than Ever: Recommendations for Practice and Research. Ecological Restoration, 2009, 27, 330-338.	0.6	166
8	REGIONAL AND LOCAL SPECIES RICHNESS IN AN INSULAR ENVIRONMENT: SERPENTINE PLANTS IN CALIFORNIA. Ecological Monographs, 2006, 76, 41-56.	2.4	157
9	SERPENTINE ENDEMISM IN THE CALIFORNIA FLORA: A DATABASE OF SERPENTINE AFFINITY. Madroño, 2005, 52, 222-257.	0.3	150
10	Modern departures in fire severity and area vary by forest type, Sierra Nevada and southern Cascades, California, USA. Ecosphere, 2013, 4, 1-28.	1.0	150
11	Biotic homogenization of the California flora in urban and urbanizing regions. Biological Conservation, 2006, 127, 282-291.	1.9	145
12	FISH INVASIONS IN CALIFORNIA WATERSHEDS: TESTING HYPOTHESES USING LANDSCAPE PATTERNS. , 2004, 14, 1507-1525.		142
13	HUMAN IMPACTS, PLANT INVASION, AND IMPERILED PLANT SPECIES IN CALIFORNIA. , 2006, 16, 1338-1350.		137
14	Hydrologic Response and Watershed Sensitivity to Climate Warming in California's Sierra Nevada. PLoS ONE, 2010, 5, e9932.	1.1	104
15	Vinecology: pairing wine with nature. Conservation Letters, 2013, 6, 287-299.	2.8	98
16	Ecology and Management of the Spring Snowmelt Recession. BioScience, 2010, 60, 114-127.	2.2	96
17	100 years of California's water rights system: patterns, trends and uncertainty. Environmental Research Letters, 2014, 9, 084012.	2.2	91
18	Riparian bird response to vegetation structure: a multiscale analysis using LiDAR measurements of canopy height. Ecological Applications, 2009, 19, 1848-1857.	1.8	88

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19	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.	1.9	87
20	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.	1.0	87
21	PRODUCTIVITY ALTERS THE SCALE DEPENDENCE OF THE DIVERSITY-INVASIBILITY RELATIONSHIP. <i>Ecology</i> , 2007, 88, 1940-1947.	1.5	86
22	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.	1.2	81
23	Stream temperature sensitivity to climate warming in California's Sierra Nevada: impacts to coldwater habitat. <i>Climatic Change</i> , 2013, 116, 149-170.	1.7	75
24	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.	1.1	73
25	Hydropower Relicensing and Climate Change. <i>Journal of the American Water Resources Association</i> , 2011, 47, 655-661.	1.0	72
26	Modeling the Hydrology of Climate Change in California's Sierra Nevada for Subwatershed Scale Adaptation. <i>Journal of the American Water Resources Association</i> , 2009, 45, 1409-1423.	1.0	65
27	Homogenization of California's Fish Fauna Through Abiotic Change. , 2001, , 259-278.		62
28	INVASION IN A DIVERSITY HOTSPOT: EXOTIC COVER AND NATIVE RICHNESS IN THE CALIFORNIAN SERPENTINE FLORA. <i>Ecology</i> , 2006, 87, 695-703.	1.5	57
29	Energy and water co-benefits from covering canals with solar panels. <i>Nature Sustainability</i> , 2021, 4, 609-617.	11.5	54
30	Anthropogenic impacts upon plant species richness and net primary productivity in California. <i>Ecology Letters</i> , 2004, 8, 127-137.	3.0	53
31	Agriculture's Contribution to Nitrate Contamination of Californian Groundwater (1945-2005). <i>Journal of Environmental Quality</i> , 2014, 43, 895-907.	1.0	51
32	In bad waters: Water year classification in nonstationary climates. <i>Water Resources Research</i> , 2013, 49, 1137-1148.	1.7	50
33	Climatic and spatial patterns of diversity in the serpentine plants of California. <i>Diversity and Distributions</i> , 2000, 6, 153-162.	1.9	48
34	Missing the Boat on Freshwater Fish Conservation in California. <i>Conservation Letters</i> , 2017, 10, 77-85.	2.8	47
35	Assessing Ecosystem Services and Multifunctionality for Vineyard Systems. <i>Frontiers in Environmental Science</i> , 2017, 5, .	1.5	47
36	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.	4.6	41

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37	Systematic Screening of Dams for Environmental Flow Assessment and Implementation. <i>BioScience</i> , 2014, 64, 1006-1018.	2.2	41
38	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.	1.2	38
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.	0.7	37
40	Coupling landscapes and river flows to restore highly modified rivers. <i>Water Resources Research</i> , 2019, 55, 4512-4532.	1.7	35
41	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.	0.7	34
42	Spatial Patterns of Endemic Plants in California. <i>Natural Areas Journal</i> , 2009, 29, 344-366.	0.2	32
43	Deep carbon storage potential of buried floodplain soils. <i>Scientific Reports</i> , 2017, 7, 8181.	1.6	32
44	Hydrologic Variability of the Cosumnes River Floodplain. <i>San Francisco Estuary and Watershed Science</i> , 2006, 4, .	0.2	30
45	Favorable environments and the persistence of naturally rare species. <i>Conservation Letters</i> , 2008, 1, 65-74.	2.8	30
46	Freshwater conservation options for a changing climate in California's Sierra Nevada. <i>Marine and Freshwater Research</i> , 2011, 62, 266.	0.7	28
47	Patterns of bird diversity and habitat use in mixed vineyard-matorral landscapes of Central Chile. <i>Ecological Indicators</i> , 2017, 73, 345-357.	2.6	28
48	Using Topography to Meet Wildlife and Fuels Treatment Objectives in Fire-Suppressed Landscapes. <i>Environmental Management</i> , 2010, 46, 809-819.	1.2	26
49	Patterns of Freshwater Species Richness, Endemism, and Vulnerability in California. <i>PLoS ONE</i> , 2015, 10, e0130710.	1.1	26
50	A freshwater conservation blueprint for California: prioritizing watersheds for freshwater biodiversity. <i>Freshwater Science</i> , 2018, 37, 417-431.	0.9	25
51	Tropical dry forest trees and the relationship between local abundance and geographic range. <i>Journal of Biogeography</i> , 2010, 37, 951-959.	1.4	24
52	Multiscale Patterns of Riparian Plant Diversity and Implications for Restoration. <i>Restoration Ecology</i> , 2012, 20, 160-169.	1.4	23
53	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.	0.7	22
54	Flood regime typology for floodplain ecosystem management as applied to the unregulated Cosumnes River of California, United States. <i>Ecohydrology</i> , 2017, 10, e1817.	1.1	22

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55	Towards Automating Precision Irrigation: Deep Learning to Infer Local Soil Moisture Conditions from Synthetic Aerial Agricultural Images. , 2018, , .		21
56	Economic and policy drivers of agricultural water desalination in California's central valley. Agricultural Water Management, 2017, 194, 192-203.	2.4	20
57	Human-induced and natural carbon storage in floodplains of the Central Valley of California. Science of the Total Environment, 2019, 651, 851-858.	3.9	20
58	From berries to blocks: carbon stock quantification of a California vineyard. Carbon Balance and Management, 2017, 12, 5.	1.4	18
59	Exploring the multiscale hydrologic regulation of multipond systems in a humid agricultural catchment. Water Research, 2020, 184, 115987.	5.3	18
60	Advances in soil moisture retrieval from multispectral remote sensing using unoccupied aircraft systems and machine learning techniques. Hydrology and Earth System Sciences, 2021, 25, 2739-2758.	1.9	18
61	Simulating High-Elevation Hydropower with Regional Climate Warming in the West Slope, Sierra Nevada. Journal of Water Resources Planning and Management - ASCE, 2014, 140, 714-723.	1.3	15
62	A programmable information system for management and analysis of aquatic species range data in California. Environmental Modelling and Software, 2014, 53, 13-26.	1.9	15
63	Economic Feasibility of Irrigated Agricultural Land Use Buffers to Reduce Groundwater Nitrate in Rural Drinking Water Sources. Water (Switzerland), 2015, 7, 12-37.	1.2	15
64	Valuing year-to-year hydrologic forecast improvements for a peaking hydropower system in the Sierra Nevada. Water Resources Research, 2016, 52, 3815-3828.	1.7	15
65	Climate-Adaptive Water Year Typing for Instream Flow Requirements in California's Sierra Nevada. Journal of Water Resources Planning and Management - ASCE, 2016, 142, .	1.3	13
66	A glass half empty: Limited voices, limited groundwater security for California. Science of the Total Environment, 2020, 738, 139529.	3.9	13
67	Flowing from East to West: A bibliometric analysis of recent advances in environmental flow science in China. Ecological Indicators, 2021, 125, 107358.	2.6	12
68	Tarping as an Alternative for Perennial Pepperweed (<i>Lepidium latifolium</i>) Control. Invasive Plant Science and Management, 2011, 4, 66-72.	0.5	11
69	Invasive Aquatic Vegetation Management in the Sacramento-San Joaquin River Delta: Status and Recommendations. San Francisco Estuary and Watershed Science, 2017, 15, .	0.2	11
70	Does More Storage Give California More Water?. Journal of the American Water Resources Association, 2019, 55, 759-771.	1.0	11
71	Assessing Hydrological Alteration Caused by Climate Change and Reservoir Operations in the San Joaquin River Basin, California. Frontiers in Environmental Science, 2022, 10, .	1.5	11
72	NON-UNIFORM CHANGES TO WHITEWATER RECREATION IN CALIFORNIA'S SIERRA NEVADA FROM REGIONAL CLIMATE WARMING. River Research and Applications, 2012, 28, 1299-1311.	0.7	10

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73	Special report: The AgAID AI institute for transforming workforce and decision support in agriculture. <i>Computers and Electronics in Agriculture</i> , 2022, 197, 106944.	3.7	8
74	Environmental heterogeneity and community structure of the Kobuk River, Alaska, in response to climate change. <i>Ecosphere</i> , 2011, 2, art44.	1.0	7
75	DATE: A handheld co-robotic device for automated tuning of emitters to enable precision irrigation. , 2016, , .		7
76	Ecosystem services in vineyard landscapes: a focus on aboveground carbon storage and accumulation. <i>Carbon Balance and Management</i> , 2020, 15, 23.	1.4	7
77	Shifting Trade-offs: Finding the Sustainable Nexus of Hydropower and Environmental Flows in the San Joaquin River Watershed, California. <i>Frontiers in Environmental Science</i> , 0, 10, .	1.5	7
78	Pulsed Flow Wave Attenuation on a Regulated Montane River. <i>River Research and Applications</i> , 2016, 32, 1047-1058.	0.7	6
79	sUAS Remote Sensing of Vineyard Evapotranspiration Quantifies Spatiotemporal Uncertainty in Satellite-Borne ET Estimates. <i>Remote Sensing</i> , 2020, 12, 3251.	1.8	6
80	Learning Seed Placements and Automation Policies for Polyculture Farming with Companion Plants. , 2021, , .		6
81	Simulating Polyculture Farming to Learn Automation Policies for Plant Diversity and Precision Irrigation. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 1352-1364.	3.4	6
82	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.	0.9	4
83	Simulation Modeling to Secure Environmental Flows in a Diversion Modified Flow Regime. <i>Journal of Water Resources Planning and Management - ASCE</i> , 2016, 142, .	1.3	4
84	Meeting ecosystem needs while satisfying human demands. <i>Environmental Research Letters</i> , 2017, 12, 061001.	2.2	4
85	Dynamic river processes drive variability in particulate organic matter over fine spatiotemporal scales. <i>Freshwater Biology</i> , 2020, 65, 1569-1584.	1.2	4
86	RAPID-MOLT: A Meso-scale, Open-source, Low-cost Testbed for Robot Assisted Precision Irrigation and Delivery. , 2019, , .		3
87	Serpentine Grasslands. , 2007, , 145-155.		3
88	More Pop per Drop: Functional Environmental Flows to Meet Ecosystem Needs and Human Demands. , 2017, , .		2
89	A detailed study on accuracy of uncooled thermal cameras by exploring the data collection workflow. , 2018, , .		2
90	Regional Hydrologic Classification for Sustainable Dam Operations in China: Exploratory Applications in the Yangtze River Basin. <i>Journal of the American Water Resources Association</i> , 0, , .	1.0	2

#	ARTICLE	IF	CITATIONS
91	Precision Counting of Sandhill Cranes in Staten Island by FAA Approved Small Unmanned Aerial System Night Missions. , 2017, , .		1
92	Interaction of restored hydrological connectivity and herbicide suppresses dominance of a floodplain invasive species. Restoration Ecology, 2020, 28, 1551-1560.	1.4	1
93	Machine Learning Based Soil Moisture Retrieval from Unmanned Aircraft System Multispectral Remote Sensing. , 2020, , .		1
94	The California Water Quality Assessment Spatial Database. , 1999, , .		0