Tim H M Van Emmerik

List of Publications by Year
in descending order

62	3,496	185998 28	149479 56
papers	citations	h-index	g-index

132	132	132	2812
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	More than 1000 rivers account for 80% of global riverine plastic emissions into the ocean. Science Advances, 2021, 7, .	4.7	455
2	Plastic debris in rivers. Wiley Interdisciplinary Reviews: Water, 2020, 7, e1398.	2.8	252
3	An inshoreâ€“offshore sorting system revealed from global classification of ocean litter. Nature Sustainability, 2021, 4, 484-493.	11.5	178
4	Humanâ€“water interface in hydrological modelling: current status and future directions. Hydrology and Earth System Sciences, 2017, 21, 4169-4193.	1.9	171
5	A Methodology to Characterize Riverine Macroplastic Emission Into the Ocean. Frontiers in Marine Science, 2018, 5, .	1.2	151
6	Socio-hydrologic modeling to understand and mediate the competition for water between agriculture development and environmental health: Murrumbidgee River basin, Australia. Hydrology and Earth System Sciences, 2014, 18, 4239-4259.	1.9	136
7	Seasonality of riverine macroplastic transport. Scientific Reports, 2019, 9, 13549.	1.6	133
8	A Global Assessment of Runoff Sensitivity to Changes in Precipitation, Potential Evaporation, and Other Factors. Water Resources Research, 2017, 53, 8475-8486.	1.7	125
9	Riverine plastic emission from Jakarta into the ocean. Environmental Research Letters, 2019, 14, 084033.	2.2	105
10	Abundance of plastic debris across European and Asian rivers. Environmental Research Letters, 2019, 14, 124051.	2.2	105
11	Rivers as Plastic Reservoirs. Frontiers in Water, 2022, 3, .	1.0	100
12	Plastic in global rivers: are floods making it worse?. Environmental Research Letters, 2021, 16, 025003.	2.2	97
13	Seine Plastic Debris Transport Tenfolded During Increased River Discharge. Frontiers in Marine Science, 2019, 6, .	1.2	86
14	Riverine Plastic Litter Monitoring Using Unmanned Aerial Vehicles (UAVs). Remote Sensing, 2019, 11, 2045.	1.8	83
15	Rapid Assessment of Floating Macroplastic Transport in the Rhine. Frontiers in Marine Science, 2020, 7, .	1.2	76
16	Macroplastic Storage and Remobilization in Rivers. Water (Switzerland), 2020, 12, 2055.	1.2	73
17	Scaling, similarity, and the fourth paradigm for hydrology. Hydrology and Earth System Sciences, 2017, 21, 3701-3713.	1.9	63
18	Impact of Diurnal Variation in Vegetation Water Content on Radar Backscatter From Maize During Water Stress. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 3855-3869.	2.7	61

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19	Automated River Plastic Monitoring Using Deep Learning and Cameras. Earth and Space Science, 2020, 7, e2019EA000960.	1.1	61
20	Urban River Water Level Increase Through Plastic Waste Accumulation at a Rack Structure. Frontiers in Earth Science, 2020, 8, .	0.8	59
21	Norms and values in sociohydrological models. Hydrology and Earth System Sciences, 2018, 22, 1337-1349.	1.9	44
22	Riverbank macrolitter in the Dutch Rhineâ€“Meuse delta. Environmental Research Letters, 2020, 15, 104087.	2.2	39
23	Measuring Tree Properties and Responses Using Low-Cost Accelerometers. Sensors, 2017, 17, 1098.	2.1	38
24	Plastic Plants: The Role of Water Hyacinths in Plastic Transport in Tropical Rivers. Frontiers in Environmental Science, 2021, 9, .	1.5	37
25	Measuring heat balance residual at lake surface using Distributed Temperature Sensing. Limnology and Oceanography: Methods, 2013, 11, 79-90.	1.0	35
26	Plastic Pollution Research in Indonesia: State of Science and Future Research Directions to Reduce Impacts. Frontiers in Environmental Science, 2021, 9, .	1.5	35
27	Crowd-Based Observations of Riverine Macroplastic Pollution. Frontiers in Earth Science, 2020, 8, .	0.8	34
28	A Global Survey on the Perceptions and Impacts of Gender Inequality in the Earth and Space Sciences. Earth and Space Science, 2019, 6, 1460-1468.	1.1	32
29	An architectural understanding of natural sway frequencies in trees. Journal of the Royal Society Interface, 2019, 16, 20190116.	1.5	32
30	Manila River Mouths Act as Temporary Sinks for Macroplastic Pollution. Frontiers in Marine Science, 2020, 7, .	1.2	31
31	Same but Different: A Framework to Design and Compare Riverbank Plastic Monitoring Strategies. Frontiers in Water, 2020, 2, .	1.0	30
32	Advancing Floating Macroplastic Detection from Space Using Experimental Hyperspectral Imagery. Remote Sensing, 2021, 13, 2335.	1.8	30
33	The motion of trees in the wind: a data synthesis. Biogeosciences, 2021, 18, 4059-4072.	1.3	28
34	Joint effort among research infrastructures to quantify the impact of plastic debris in the ocean. Environmental Research Letters, 2019, 14, 065001.	2.2	27
35	Towards Underwater Macroplastic Monitoring Using Echo Sounding. Frontiers in Earth Science, 2021, 9, .	0.8	26
36	Predicting the ungauged basin: model validation and realism assessment. Frontiers in Earth Science, 2015, 3, .	0.8	25

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37	Water stress detection in the Amazon using radar. Geophysical Research Letters, 2017, 44, 6841-6849.	1.5	25
38	Spotting Green Tides over Brittany from Space: Three Decades of Monitoring with Landsat Imagery. Remote Sensing, 2021, 13, 1408.	1.8	25
39	Plastic Hotspot Mapping in Urban Water Systems. Geosciences (Switzerland), 2020, 10, 342.	1.0	23
40	Disentangling Variability in Riverbank Macrolitter Observations. Environmental Science & Technology, 2021, 55, 4932-4942.	4.6	23
41	Dielectric Response of Corn Leaves to Water Stress. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 8-12.	1.4	22
42	Hydrology as a Driver of Floating River Plastic Transport. Earth's Future, 2022, 10, .	2.4	22
43	A hydrologist's guide to open science. Hydrology and Earth System Sciences, 2022, 26, 647-664.	1.9	21
44	Practical considerations for enhanced-resolution coil-wrapped distributed temperature sensing. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 151-162.	0.6	16
45	Will it Float? Rising and Settling Velocities of Common Macroplastic Foils. ACS ES&T Water, 2022, 2, 975-981.	2.3	15
46	A Field Guide for Monitoring Riverine Macroplastic Entrapment in Water Hyacinths. Frontiers in Environmental Science, 2021, 9, .	1.5	14
47	A comparison between leaf dielectric properties of stressed and unstressed tomato plants. , 2015, , .		12
48	Plastic pollution in marine and freshwater environments: abundance, sources, and mitigation. , 2022, , 241-274.		11
49	Macroplastic research in an era of microplastic. Microplastics and Nanoplastics, 2021, 1, .	4.1	10
50	Rivers running green: water hyacinth invasion monitored from space. Environmental Research Letters, 2022, 17, 044069.	2.2	10
51	Proof of concept: temperature-sensing waders for environmental sciences. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 45-51.	0.6	9
52	Ideas and perspectives: Treeâ€“atmosphere interaction responds to water-related stem variations. Biogeosciences, 2018, 15, 6439-6449.	1.3	9
53	Skin Effect of Fresh Water Measured Using Distributed Temperature Sensing. Water (Switzerland), 2018, 10, 214.	1.2	9
54	Reporting negative results to stimulate experimental hydrology: discussion of â€œThe role of experimental work in hydrological sciences â€“ insights from a community surveyâ€• Hydrological Sciences Journal, 2018, 63, 1269-1272.	1.2	8

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55	Uchimizu: A Cool(ing) Tradition to Locally Decrease Air Temperature. Water (Switzerland), 2018, 10, 741.	1.2	8
56	Roadmap for Long-Term Macroplastic Monitoring in Rivers. Frontiers in Environmental Science, 2022, 9, .	1.5	8
57	Scaling, Similarity, and the Fourth Paradigm for Hydrology. , 2017, 21, 3701-3713.		7
58	HESS Opinions: Science in today's media landscape â€“ challenges and lessons from hydrologists and journalists. Hydrology and Earth System Sciences, 2018, 22, 3589-3599.	1.9	5
59	Tree Sway Time Series of 7 Amazon Tree Species (July 2015â€“May 2016). Frontiers in Earth Science, 2018, 6, .	0.8	1
60	Editorial: Early Career Scientistsâ€™ Contributions to River Plastic Monitoring Across Scales. Frontiers in Earth Science, 2022, 10, .	0.8	1
61	Fall Meetingâ€™s First Student and Early Career Conference. Eos, 2015, 96, .	0.1	0
62	Creating Community for Early-Career Geoscientists. Eos, 2015, 96, .	0.1	0