

Flavia Tauro

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

2,394
citations

331538

21
h-index

276775

41
g-index

55
all docs

55
docs citations

55
times ranked

3301
citing authors

#	ARTICLE	IF	CITATIONS
1	Twenty-three unsolved problems in hydrology (UPH) – a community perspective. <i>Hydrological Sciences Journal</i> , 2019, 64, 1141-1158.	1.2	474
2	On the Use of Unmanned Aerial Systems for Environmental Monitoring. <i>Remote Sensing</i> , 2018, 10, 641.	1.8	433
3	Measurements and Observations in the XXI century (MOXXI): innovation and multi-disciplinarity to sense the hydrological cycle. <i>Hydrological Sciences Journal</i> , 2018, 63, 169-196.	1.2	151
4	UAV-Based Thermal Imaging for High-Throughput Field Phenotyping of Black Poplar Response to Drought. <i>Frontiers in Plant Science</i> , 2017, 8, 1681.	1.7	142
5	Time of concentration: a paradox in modern hydrology. <i>Hydrological Sciences Journal</i> , 2012, 57, 217-228.	1.2	118
6	Surface flow measurements from drones. <i>Journal of Hydrology</i> , 2016, 540, 240-245.	2.3	99
7	UAV-DEMs for Small-Scale Flood Hazard Mapping. <i>Water (Switzerland)</i> , 2020, 12, 1717.	1.2	73
8	Large-Scale Particle Image Velocimetry From an Unmanned Aerial Vehicle. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 3269-3275.	3.7	70
9	An Evaluation of Image Velocimetry Techniques under Low Flow Conditions and High Seeding Densities Using Unmanned Aerial Systems. <i>Remote Sensing</i> , 2020, 12, 232.	1.8	69
10	Orienting the camera and firing lasers to enhance large scale particle image velocimetry for streamflow monitoring. <i>Water Resources Research</i> , 2014, 50, 7470-7483.	1.7	60
11	Assessment of drone-based surface flow observations. <i>Hydrological Processes</i> , 2016, 30, 1114-1130.	1.1	57
12	Optical Tracking Velocimetry (OTV): Leveraging Optical Flow and Trajectory-Based Filtering for Surface Streamflow Observations. <i>Remote Sensing</i> , 2018, 10, 2010.	1.8	49
13	Towards harmonisation of image velocimetry techniques for river surface velocity observations. <i>Earth System Science Data</i> , 2020, 12, 1545-1559.	3.7	44
14	Fluorescent particle tracers in surface hydrology: a proof of concept in a semi-natural hillslope. <i>Hydrology and Earth System Sciences</i> , 2012, 16, 2973-2983.	1.9	39
15	Estimating Maximum Daily Precipitation in the Upper Vistula Basin, Poland. <i>Atmosphere</i> , 2019, 10, 43.	1.0	39
16	PTV-Stream: A simplified particle tracking velocimetry framework for stream surface flow monitoring. <i>Catena</i> , 2019, 172, 378-386.	2.2	38
17	A novel permanent gauge-cam station for surface-flow observations on the Tiber River. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2016, 5, 241-251.	0.6	34
18	Citizens AND Hydrology (CANDHY): conceptualizing a transdisciplinary framework for citizen science addressing hydrological challenges. <i>Hydrological Sciences Journal</i> , 2022, 67, 2534-2551.	1.2	33

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19	UAV-Based LiDAR for High-Throughput Determination of Plant Height and Above-Ground Biomass of the Bioenergy Grass <i>Arundo donax</i> . <i>Remote Sensing</i> , 2020, 12, 3464.	1.8	28
20	Tracing of shallow water flows through buoyant fluorescent particles. <i>Flow Measurement and Instrumentation</i> , 2012, 26, 93-101.	1.0	26
21	Characterization of Buoyant Fluorescent Particles for Field Observations of Water Flows. <i>Sensors</i> , 2010, 10, 11512-11529.	2.1	25
22	Hillslope Erosion Mitigation: An Experimental Proof of a Nature-Based Solution. <i>Sustainability</i> , 2021, 13, 6058.	1.6	23
23	Ice dices for monitoring stream surface velocity. <i>Journal of Hydro-Environment Research</i> , 2017, 14, 143-149.	1.0	21
24	Optical sensing for stream flow observations: A review. <i>Journal of Agricultural Engineering</i> , 2018, 49, 199-206.	0.7	19
25	Low-cost stage-camera system for continuous water-level monitoring in ephemeral streams. <i>Hydrological Sciences Journal</i> , 2022, 67, 1439-1448.	1.2	18
26	Unraveling Flow Patterns through Nonlinear Manifold Learning. <i>PLoS ONE</i> , 2014, 9, e91131.	1.1	17
27	Particle tracers and image analysis for surface flow observations. <i>Wiley Interdisciplinary Reviews: Water</i> , 2016, 3, 25-39.	2.8	15
28	Enabling Image-Based Streamflow Monitoring at the Edge. <i>Remote Sensing</i> , 2020, 12, 2047.	1.8	15
29	Assessment of Fluorescent Particles for Surface Flow Analysis. <i>Sensors</i> , 2012, 12, 15827-15840.	2.1	13
30	Surface flows from images: ten days of observations from the Tiber River gauge-cam station. <i>Hydrology Research</i> , 2017, 48, 646-655.	1.1	12
31	Latent heat flux variability and response to drought stress of black poplar: A multi-platform multi-sensor remote and proximal sensing approach to relieve the data scarcity bottleneck. <i>Remote Sensing of Environment</i> , 2022, 268, 112771.	4.6	10
32	Characterization of eco-friendly fluorescent nanoparticle-doped tracers for environmental sensing. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	9
33	River basins on the edge of change. <i>Science</i> , 2021, 372, 680-681.	6.0	9
34	Diatom percolation through soils: a proof of concept laboratory experiment. <i>Ecohydrology</i> , 2016, 9, 753-764.	1.1	8
35	“Cape Fear” A Hybrid Hillslope Plot for Monitoring Hydrological Processes. <i>Hydrology</i> , 2017, 4, 35.	1.3	7
36	Field studies on the soil loss reduction effectiveness of three biodegradable geotextiles. <i>Journal of Agricultural Engineering</i> , 2018, 49, 117-123.	0.7	7

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37	Integrating mechatronics in project-based learning of Malaysian high school students and teachers. International Journal of Mechanical Engineering Education, 2017, 45, 297-320.	0.6	7
38	On the Deployment of Out-of-the-Box Embedded Devices for Self-Powered River Surface Flow Velocity Monitoring at the Edge. Applied Sciences (Switzerland), 2021, 11, 7027.	1.3	6
39	Development and Testing of an Unmanned Aerial Vehicle for Large Scale Particle Image Velocimetry. , 2014, , .		5
40	Cape Fear: monitoring basic hydrological processes in an outdoor hillslope plot. Environmental Monitoring and Assessment, 2017, 189, 132.	1.3	5
41	Investigating runoff formation dynamics: field observations at Cape Fear experimental plot. Environmental Monitoring and Assessment, 2019, 191, 642.	1.3	2
42	Fluorescent Particles for Non-intrusive Surface Flow Observations. Procedia Environmental Sciences, 2013, 19, 895-903.	1.3	1
43	A Topological Framework for Flow Characterization and Identification. , 2014, , .		1
44	Buoyant Fluorescent Particles as a Novel Sensing Technology for Field Observations of Water Flows. , 2011, , .		1
45	Fluorescent Particle Image Tracking Procedure for Shallow Water Flow Tracing. , 2012, , .		0