

Andrea Defina

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

1,609
citations

430874

18
h-index

414414

32
g-index

32
all docs

32
docs citations

32
times ranked

1583
citing authors

#	ARTICLE	IF	CITATIONS
1	Tidal regime, salinity and salt marsh plant zonation. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 62, 119-130.	2.1	374
2	Critical bifurcation of shallow microtidal landforms in tidal flats and salt marshes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 8337-8341.	7.1	222
3	Two-dimensional shallow flow equations for partially dry areas. <i>Water Resources Research</i> , 2000, 36, 3251-3264.	4.2	190
4	Morphological evolution of the Venice lagoon: Evidence from the past and trend for the future. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	127
5	Mean flow and turbulence in vegetated open channel flow. <i>Water Resources Research</i> , 2005, 41, .	4.2	89
6	Mathematical modeling of flooding due to river bank failure. <i>Advances in Water Resources</i> , 2013, 59, 82-94.	3.8	64
7	Water age, exposure time, and local flushing time in semi-enclosed, tidal basins with negligible freshwater inflow. <i>Journal of Marine Systems</i> , 2016, 156, 16-29.	2.1	63
8	Floods, landscape modifications and population dynamics in anthropogenic coastal lowlands: The Polesine (northern Italy) case study. <i>Science of the Total Environment</i> , 2019, 651, 1435-1450.	8.0	37
9	Floating particle trapping and diffusion in vegetated open channel flow. <i>Water Resources Research</i> , 2010, 46, .	4.2	34
10	Capillary Interception of Floating Particles by Surface-Piercing Vegetation. <i>Physical Review Letters</i> , 2013, 111, 164501.	7.8	34
11	Simplified methods for real-time prediction of storm surge uncertainty: The city of Venice case study. <i>Advances in Water Resources</i> , 2014, 71, 177-185.	3.8	34
12	Wave Height Attenuation and Flow Resistance Due to Emergent or Near-Emergent Vegetation. <i>Water (Switzerland)</i> , 2018, 10, 402.	2.7	29
13	Capillary trapping of buoyant particles within regions of emergent vegetation. <i>Water Resources Research</i> , 2012, 48, .	4.2	28
14	Hysteretic behavior of the flow under a vertical sluice gate. <i>Physics of Fluids</i> , 2003, 15, 2541-2548.	4.0	26
15	Open channel flow through a linear contraction. <i>Physics of Fluids</i> , 2010, 22, .	4.0	24
16	Loss of geomorphic diversity in shallow tidal embayments promoted by storm-surge barriers. <i>Science Advances</i> , 2022, 8, eabm8446.	10.3	23
17	The first operations of Mo.S.E. system to prevent the flooding of Venice: Insights on the hydrodynamics of a regulated lagoon. <i>Estuarine, Coastal and Shelf Science</i> , 2021, 261, 107547.	2.1	22
18	Bed friction effects on the stability of a stationary hydraulic jump in a rectangular upward sloping channel. <i>Physics of Fluids</i> , 2008, 20, .	4.0	21

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19	Diffusion of floating particles in flow through emergent vegetation: Further experimental investigation. <i>Water Resources Research</i> , 2012, 48, .	4.2	20
20	Positive Surge Propagation in Sloping Channels. <i>Water (Switzerland)</i> , 2017, 9, 518.	2.7	20
21	Free surface waves induced by vortex shedding in cylinder arrays. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2017, 55, 16-26.	1.7	19
22	Numerical study of the Guderley and Vasilev reflections in steady two-dimensional shallow water flow. <i>Physics of Fluids</i> , 2008, 20, 097102.	4.0	15
23	A semi-empirical model to predict the probability of capture of buoyant particles by a cylindrical collector through capillarity. <i>Advances in Water Resources</i> , 2016, 97, 168-174.	3.8	14
24	Extended Theory of Hydraulic Hysteresis in Open-Channel Flow. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	1.5	14
25	Remote Sensing for Optimal Estimation of Water Temperature Dynamics in Shallow Tidal Environments. <i>Remote Sensing</i> , 2020, 12, 51.	4.0	13
26	A note on weak shock wave reflection. <i>Shock Waves</i> , 2013, 23, 505-511.	1.9	10
27	Vortex-induced cross-flow seiching in cylinder arrays. <i>Advances in Water Resources</i> , 2014, 71, 140-148.	3.8	10
28	Consideration of the Mechanisms for Tidal Bore Formation in an Idealized Planform Geometry. <i>Water Resources Research</i> , 2018, 54, 5670-5686.	4.2	10
29	Multiple states in the flow through a sluice gate. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2019, 57, 39-50.	1.7	9
30	Experimental Setup and Measuring System to Study Solitary Wave Interaction with Rigid Emergent Vegetation. <i>Sensors</i> , 2019, 19, 1787.	3.8	8
31	An Eulerian Model for the Transport and Diffusion of Floating Particles Within Regions of Emergent Vegetation. <i>Water Resources Research</i> , 2021, 57, e2021WR029625.	4.2	5
32	Transient Retention of Floating Particles Captured by Emergent Vegetation Through Capillarity. <i>Water Resources Research</i> , 2022, 58, .	4.2	1