

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
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32
all docs

32
docs citations

32
times ranked

1583
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Loss of geomorphic diversity in shallow tidal embayments promoted by storm-surge barriers. <i>Science Advances</i> , 2022, 8, eabm8446. | 10.3 | 23 |
| 2 | Transient Retention of Floating Particles Captured by Emergent Vegetation Through Capillarity. <i>Water Resources Research</i> , 2022, 58, . | 4.2 | 1 |
| 3 | 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 |
| 4 | 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 |
| 5 | Remote Sensing for Optimal Estimation of Water Temperature Dynamics in Shallow Tidal Environments. <i>Remote Sensing</i> , 2020, 12, 51. | 4.0 | 13 |
| 6 | Experimental Setup and Measuring System to Study Solitary Wave Interaction with Rigid Emergent Vegetation. <i>Sensors</i> , 2019, 19, 1787. | 3.8 | 8 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Wave Height Attenuation and Flow Resistance Due to Emergent or Near-Emergent Vegetation. <i>Water (Switzerland)</i> , 2018, 10, 402. | 2.7 | 29 |
| 11 | Extended Theory of Hydraulic Hysteresis in Open-Channel Flow. <i>Journal of Hydraulic Engineering</i> , 2017, 143, . | 1.5 | 14 |
| 12 | 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 |
| 13 | Positive Surge Propagation in Sloping Channels. <i>Water (Switzerland)</i> , 2017, 9, 518. | 2.7 | 20 |
| 14 | 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 |
| 15 | 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 |
| 16 | Vortex-induced cross-flow seiche in cylinder arrays. <i>Advances in Water Resources</i> , 2014, 71, 140-148. | 3.8 | 10 |
| 17 | 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 |
| 18 | A note on weak shock wave reflection. <i>Shock Waves</i> , 2013, 23, 505-511. | 1.9 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Mathematical modeling of flooding due to river bank failure. <i>Advances in Water Resources</i> , 2013, 59, 82-94. | 3.8 | 64 |
| 20 | Capillary Interception of Floating Particles by Surface-Piercing Vegetation. <i>Physical Review Letters</i> , 2013, 111, 164501. | 7.8 | 34 |
| 21 | Diffusion of floating particles in flow through emergent vegetation: Further experimental investigation. <i>Water Resources Research</i> , 2012, 48, . | 4.2 | 20 |
| 22 | Capillary trapping of buoyant particles within regions of emergent vegetation. <i>Water Resources Research</i> , 2012, 48, . | 4.2 | 28 |
| 23 | Open channel flow through a linear contraction. <i>Physics of Fluids</i> , 2010, 22, . | 4.0 | 24 |
| 24 | Floating particle trapping and diffusion in vegetated open channel flow. <i>Water Resources Research</i> , 2010, 46, . | 4.2 | 34 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | Tidal regime, salinity and salt marsh plant zonation. <i>Estuarine, Coastal and Shelf Science</i> , 2005, 62, 119-130. | 2.1 | 374 |
| 30 | Mean flow and turbulence in vegetated open channel flow. <i>Water Resources Research</i> , 2005, 41, . | 4.2 | 89 |
| 31 | Hysteretic behavior of the flow under a vertical sluice gate. <i>Physics of Fluids</i> , 2003, 15, 2541-2548. | 4.0 | 26 |
| 32 | Two-dimensional shallow flow equations for partially dry areas. <i>Water Resources Research</i> , 2000, 36, 3251-3264. | 4.2 | 190 |