

Fabián A Bombardelli

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1610746/publications.pdf>

Version: 2024-02-01

64
papers

1,873
citations

201575

27
h-index

276775

41
g-index

66
all docs

66
docs citations

66
times ranked

1624
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Flow Structures During Upwelling Events in Lakes of Moderate Size. <i>Water Resources Research</i> , 2022, 58, .	1.7	4
2	Hydraulic structures engineering: An evolving science in a changing world. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1505.	2.8	11
3	Physically Based Scaling Models to Predict Gas Transfer Velocity in Streams and Rivers. <i>Water Resources Research</i> , 2021, 57, e2020WR028757.	1.7	8
4	Time-dependent scour processes on granular beds at large scale. <i>Environmental Fluid Mechanics</i> , 2021, 21, 791-816.	0.7	16
5	The Phenomenological Theory of Turbulence and the Scour Evolution Downstream of Grade-Control Structures under Steady Discharges. <i>Water (Switzerland)</i> , 2021, 13, 2359.	1.2	3
6	The setup and relaxation of spring upwelling in a deep, rotationally influenced lake. <i>Limnology and Oceanography</i> , 2021, 66, 1168-1189.	1.6	10
7	Experimental and Theoretical Study of Local Scour around Three-Pier Group. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	0.7	25
8	Environmental fluid mechanics in hydraulic engineering. <i>Environmental Fluid Mechanics</i> , 2020, 20, 227-232.	0.7	1
9	Theoretical Approach for Shear-Stress Estimation at 2D Equilibrium Scour Holes in Granular Material due to Subvertical Plunging Jets. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	0.7	20
10	A New ASCE Monograph: Scour at Channel-Control Structures. <i>Journal of Hydraulic Engineering</i> , 2020, 146, 02520003.	0.7	0
11	Towards an understanding of the mechanisms leading to air entrainment in the skimming flow over stepped spillways. <i>Environmental Fluid Mechanics</i> , 2020, 20, 375-392.	0.7	12
12	Predicting Wave-Induced Sediment Resuspension at the Perimeter of Lakes Using a Steady-State Spectral Wave Model. <i>Water Resources Research</i> , 2019, 55, 1279-1295.	1.7	7
13	Generalized algorithms for particle motion and collision with streambeds. <i>International Journal of Sediment Research</i> , 2019, 34, 295-306.	1.8	3
14	Uncertainty in the parameterization of sediment build-up and wash-off processes in the simulation of sediment transport in urban areas. <i>Environmental Modelling and Software</i> , 2019, 111, 170-181.	1.9	37
15	Influence of VOF technique, turbulence model and discretization scheme on the numerical simulation of the non-aerated, skimming flow in stepped spillways. <i>Journal of Hydro-Environment Research</i> , 2018, 19, 137-149.	1.0	50
16	On the Inverse Relationship between Concentration and Size of Cohesive Sediment. <i>Journal of Coastal Research</i> , 2018, 85, 56-60.	0.1	0
17	Temporal evolution of jet induced scour depth in cohesionless granular beds and the phenomenological theory of turbulence. <i>Physics of Fluids</i> , 2018, 30, .	1.6	43
18	A general formulation of relative motion between two phases in sediment-laden water flows. <i>International Journal of Multiphase Flow</i> , 2018, 109, 63-83.	1.6	10

#	ARTICLE	IF	CITATIONS
19	Detached Eddy Simulation of the Non-aerated Skimming Flow over a Stepped Spillway. <i>Journal of Hydraulic Engineering</i> , 2017, 143, .	0.7	30
20	A general mixture model for sediment laden flows. <i>Advances in Water Resources</i> , 2017, 107, 108-125.	1.7	32
21	Environmental multi-phase fluid mechanics: what, why, how, where to?. <i>Environmental Fluid Mechanics</i> , 2017, 17, 1-5.	0.7	7
22	Distribution of mean flow and turbulence statistics in plunge pools. <i>Journal of Hydroinformatics</i> , 2017, 19, 173-190.	1.1	17
23	Experimental characterization of three-dimensional flow vortical structures in submerged hydraulic jumps. <i>Journal of Hydro-Environment Research</i> , 2017, 15, 1-12.	1.0	13
24	Comparison of Current Methods for the Evaluation of Einstein's Integrals. <i>Journal of Hydraulic Engineering</i> , 2017, 143, 06016026.	0.7	3
25	On the Values for the Turbulent Schmidt Number in Environmental Flows. <i>Fluids</i> , 2017, 2, 17.	0.8	137
26	Seasonal nearshore sediment resuspension and water clarity at Lake Tahoe. <i>Lake and Reservoir Management</i> , 2016, 32, 132-145.	0.4	8
27	Characterization of turbulence statistics on the non-aerated skimming flow over stepped spillways: a numerical study. <i>Environmental Fluid Mechanics</i> , 2016, 16, 1195-1221.	0.7	21
28	Landward Propagation of Saline Waters Following Closure of a Bar-Built Estuary: Russian River (California, USA). <i>Estuaries and Coasts</i> , 2016, 39, 621-638.	1.0	8
29	Computation of the Basset force: recent advances and environmental flow applications. <i>Environmental Fluid Mechanics</i> , 2016, 16, 193-208.	0.7	34
30	Wind-driven nearshore sediment resuspension in a deep lake during winter. <i>Water Resources Research</i> , 2014, 50, 8826-8844.	1.7	27
31	Analytical solutions of nonlinear and variable-parameter transport equations for verification of numerical solvers. <i>Environmental Fluid Mechanics</i> , 2014, 14, 711-742.	0.7	33
32	Air entrainment onset in skimming flows on steep stepped spillways: an analysis. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 375-385.	0.7	32
33	Assessment of the Melt Rate Function in a Temperature Index Snow Model Using Observed Data. <i>Journal of Hydrologic Engineering - ASCE</i> , 2014, 19, 1275-1282.	0.8	8
34	A distributed piezo-polymer scour net for bridge scour hole topography monitoring. <i>Structural Monitoring and Maintenance</i> , 2014, 1, 183-195.	1.7	3
35	Episodic closure of the tidal inlet at the mouth of the Russian River – A small bar-built estuary in California. <i>Geomorphology</i> , 2013, 189, 66-80.	1.1	60
36	Simplified 1-D Hydrodynamic and Salinity Transport Modeling of the Sacramento-San Joaquin Delta: Sea Level Rise and Water Diversion Effects. <i>San Francisco Estuary and Watershed Science</i> , 2013, 11, .	0.2	4

#	ARTICLE	IF	CITATIONS
37	Skimming, Nonaerated Flow on Stepped Spillways over Roller Compacted Concrete Dams. <i>Journal of Hydraulic Engineering</i> , 2012, 138, 870-877.	0.7	52
38	3D numerical simulation of particle-particle collisions in saltation mode near stream beds. <i>Acta Geophysica</i> , 2012, 60, 1661-1688.	1.0	22
39	Discussers. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2011, 49, 277-279.	0.7	2
40	Using Software Quality and Algorithm Testing to Verify a One-Dimensional Transport Model. , 2011, , .		1
41	Three Dimensional Model for Particle Saltation Close to Stream Beds, Including a Detailed Description of the Particle Interaction with Turbulence and Inter-Particle Collisions. , 2011, , .		1
42	Laboratory measurements and multi-block numerical simulations of the mean flow and turbulence in the non-aerated skimming flow region of steep stepped spillways. <i>Environmental Fluid Mechanics</i> , 2011, 11, 263-288.	0.7	97
43	Theoretical/numerical model for the transport of non-uniform suspended sediment in open channels. <i>Advances in Water Resources</i> , 2011, 34, 577-591.	1.7	48
44	A biogeochemical model of contaminant fate and transport in river waters and sediments. <i>Journal of Contaminant Hydrology</i> , 2010, 112, 103-117.	1.6	37
45	Toward two-phase flow modeling of nondilute sediment transport in open channels. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	47
46	MODELING MERCURY FATE AND TRANSPORT IN AQUATIC SYSTEMS. , 2010, , 275-308.		3
47	Numerical aspects of the simulation of discontinuous saline underflows: the lock-exchange problem. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009, 47, 777-789.	0.7	13
48	Modeling linkages between sediment resuspension and water quality in a shallow, eutrophic, wind-exposed lake. <i>Ecological Modelling</i> , 2009, 220, 1251-1265.	1.2	48
49	Hierarchical modeling of the dilute transport of suspended sediment in open channels. <i>Environmental Fluid Mechanics</i> , 2009, 9, 207-235.	0.7	40
50	Two-phase modeling of turbulence in dilute sediment-laden, open-channel flows. <i>Environmental Fluid Mechanics</i> , 2009, 9, 237-266.	0.7	70
51	Progress in the observation and modeling of turbulent multi-phase flows. <i>Environmental Fluid Mechanics</i> , 2009, 9, 121-123.	0.7	10
52	Sediment resuspension in a shallow lake. <i>Water Resources Research</i> , 2009, 45, .	1.7	45
53	Characterization of time and spatial scales of a migrating rivermouth. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	21
54	STABILITY OF RIVER MOUTHS: THE CASE OF THE RUSSIAN RIVER, CALIFORNIA. , 2009, , .		0

#	ARTICLE	IF	CITATIONS
55	Computation of the Particle Basset Force with a Fractional-Derivative Approach. Journal of Hydraulic Engineering, 2008, 134, 1513-1520.	0.7	54
56	Rough-pipe flows and the existence of fully developed turbulence. Physics of Fluids, 2006, 18, 038107.	1.6	16
57	Scouring of granular beds by jet-driven axisymmetric turbulent cauldrons. Physics of Fluids, 2006, 18, 088101.	1.6	41
58	Localized Turbulent Flows on Scouring Granular Beds. Physical Review Letters, 2005, 95, 014501.	2.9	49
59	High-resolution Numerical Simulation of Flow Through a Highly Sinuous River Reach. Water Resources Management, 2004, 18, 177-199.	1.9	84
60	Characterization of Coherent Structures from Parallel, L.E.S. Computations of Wandering Effects in Bubble Plumes. , 2003, , 1.		4
61	Numerical modeling of large-scale bubble plumes accounting for mass transfer effects. International Journal of Multiphase Flow, 2002, 28, 1763-1785.	1.6	69
62	INTEGRATING SCIENCE AND TECHNOLOGY TO SUPPORT STREAM NATURALIZATION NEAR CHICAGO, ILLINOIS. Journal of the American Water Resources Association, 2002, 38, 931-944.	1.0	60
63	Scaling and Similarity in Rough Channel Flows. Physical Review Letters, 2001, 88, 014501.	2.9	137
64	Computations of Curved Free Surface Water Flow on Spiral Concentrators. Journal of Hydraulic Engineering, 2001, 127, 629-631.	0.7	27