

Marcelo H Garcia

List of Publications by Year in descending order

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222
papers

8,774
citations

43973

48
h-index

53109

85
g-index

235
all docs

235
docs citations

235
times ranked

4729
citing authors

#	ARTICLE	IF	CITATIONS
1	Entrainment of Bed Sediment into Suspension. Journal of Hydraulic Engineering, 1991, 117, 414-435.	0.7	415
2	Experiments on turbidity currents over an erodible bed. Journal of Hydraulic Research/De Recherches Hydrauliques, 1987, 25, 123-147.	0.7	347
3	Mean Flow and Turbulence Structure of Open-Channel Flow through Non-Emergent Vegetation. Journal of Hydraulic Engineering, 2001, 127, 392-402.	0.7	326
4	Experiments on particle-turbulence interactions in the near-wall region of an open channel flow: implications for sediment transport. Journal of Fluid Mechanics, 1996, 326, 285-319.	1.4	274
5	A Herschel-Bulkley model for mud flow down a slope. Journal of Fluid Mechanics, 1998, 374, 305-333.	1.4	272
6	Experiments on the entrainment of sediment into suspension by a dense bottom current. Journal of Geophysical Research, 1993, 98, 4793-4807.	3.3	223
7	open-channel flow through simulated vegetation: Suspended sediment transport modeling. Water Resources Research, 1998, 34, 2341-2352.	1.7	221
8	Depositional Turbidity Currents Laden with Poorly Sorted Sediment. Journal of Hydraulic Engineering, 1994, 120, 1240-1263.	0.7	196
9	On the front velocity of gravity currents. Journal of Fluid Mechanics, 2007, 586, 1-39.	1.4	196
10	Hydraulic Jumps in Sediment-Driven Bottom Currents. Journal of Hydraulic Engineering, 1993, 119, 1094-1117.	0.7	190
11	Sediment Transport and Morphodynamics. , 2008, , 21-163.		180
12	Threshold for particle entrainment into suspension. Sedimentology, 2003, 50, 247-263.	1.6	176
13	Gravel saltation: 1. Experiments. Water Resources Research, 1994, 30, 1907-1914.	1.7	167
14	Turbulence Measurements with Acoustic Doppler Velocimeters. Journal of Hydraulic Engineering, 2005, 131, 1062-1073.	0.7	156
15	Three-Dimensional Numerical Model with Free Water Surface and Mesh Deformation for Local Sediment Scour. Journal of Waterway, Port, Coastal and Ocean Engineering, 2008, 134, 203-217.	0.5	149
16	Experiments on Hydraulic Jumps in Turbidity Currents Near a Canyon-Fan Transition. Science, 1989, 245, 393-396.	6.0	148
17	Using Lagrangian particle saltation observations for bedload sediment transport modelling. , 1998, 12, 1197-1218.		119
18	A simplified 2D model for meander migration with physically-based bank evolution. Geomorphology, 2012, 163-164, 10-25.	1.1	117

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19	Characteristics of Velocity and Excess Density Profiles of Saline Underflows and Turbidity Currents Flowing over a Mobile Bed. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 412-433.	0.7	115
20	Gravel Saltation: 2. Modeling. <i>Water Resources Research</i> , 1994, 30, 1915-1924.	1.7	109
21	Experiments on Wedge-Shaped Deep Sea Sedimentary Deposits in Minibasins and/or on Channel Levees Emplaced by Turbidity Currents. Part II. Morphodynamic Evolution of the Wedge and of the Associated Bedforms. <i>Journal of Sedimentary Research</i> , 2009, 79, 608-628.	0.8	109
22	Spatial variability in bank resistance to erosion on a large meandering, mixed bedrock-alluvial river. <i>Geomorphology</i> , 2016, 252, 80-97.	1.1	108
23	Experiments on Saltation of Sand in Water. <i>Journal of Hydraulic Engineering</i> , 1998, 124, 1014-1025.	0.7	101
24	Laboratory measurements of 3-D flow patterns and turbulence in straight open channel with rough bed. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2008, 46, 454-465.	0.7	98
25	Turbulent structures in planar gravity currents and their influence on the flow dynamics. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	94
26	High-resolution Numerical Simulation of Flow Through a Highly Sinuous River Reach. <i>Water Resources Management</i> , 2004, 18, 177-199.	1.9	84
27	Flow Structure at Different Stages in a Meander-Bend with Bendway Weirs. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 1052-1063.	0.7	84
28	Experimental study on self-accelerating turbidity currents. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	83
29	High-resolution simulations of cylindrical density currents. <i>Journal of Fluid Mechanics</i> , 2007, 590, 437-469.	1.4	80
30	A Perturbation Solution for Bingham-Plastic Mudflows. <i>Journal of Hydraulic Engineering</i> , 1997, 123, 986-994.	0.7	76
31	Title is missing!. <i>Hydrobiologia</i> , 2001, 444, 1-23.	1.0	71
32	Numerical modeling of large-scale bubble plumes accounting for mass transfer effects. <i>International Journal of Multiphase Flow</i> , 2002, 28, 1763-1785.	1.6	69
33	A robust two-equation model for transient-mixed flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2010, 48, 44-56.	0.7	69
34	Development of a Fluvial Egg Drift Simulator to evaluate the transport and dispersion of Asian carp eggs in rivers. <i>Ecological Modelling</i> , 2013, 263, 211-222.	1.2	68
35	Dynamics of sediment bars in straight and meandering channels: experiments on the resonance phenomenon. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1993, 31, 739-761.	0.7	65
36	An Eulerian-Eulerian model for gravity currents driven by inertial particles. <i>International Journal of Multiphase Flow</i> , 2008, 34, 484-501.	1.6	64

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37	Confidence intervals in the determination of turbulence parameters. <i>Experiments in Fluids</i> , 2006, 40, 514-522.	1.1	63
38	Wall Similarity in Turbulent Open-Channel Flow. <i>Journal of Engineering Mechanics - ASCE</i> , 1999, 125, 789-796.	1.6	62
39	Direct Numerical Simulations of Planar and Cylindrical Density Currents. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2006, 73, 923-930.	1.1	62
40	Modeling and scaling of aeration bubble plumes: A two-phase flow analysis. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2007, 45, 617-630.	0.7	62
41	INTEGRATING SCIENCE AND TECHNOLOGY TO SUPPORT STREAM NATURALIZATION NEAR CHICAGO, ILLINOIS. <i>Journal of the American Water Resources Association</i> , 2002, 38, 931-944.	1.0	60
42	Three-dimensional flow structure and bed morphology in large elongate meander loops with different outer bank roughness characteristics. <i>Water Resources Research</i> , 2016, 52, 9621-9641.	1.7	60
43	2D stream hydrodynamic, sediment transport and bed morphology model for engineering applications. <i>Hydrological Processes</i> , 2008, 22, 1443-1459.	1.1	57
44	Application of Godunov-type schemes to transient mixed flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009, 47, 147-156.	0.7	57
45	A New Phase Diagram for Combined-Flow Bedforms. <i>Journal of Sedimentary Research</i> , 2014, 84, 301-313.	0.8	57
46	Experiments in a high-amplitude Kinoshita meandering channel: 1. Implications of bend orientation on mean and turbulent flow structure. <i>Water Resources Research</i> , 2009, 45, .	1.7	56
47	Comparative 1D and 3D numerical investigation of open-channel junction flows and energy losses. <i>Advances in Water Resources</i> , 2018, 117, 120-139.	1.7	56
48	Godunov-Type Solutions for Transient Flows in Sewers. <i>Journal of Hydraulic Engineering</i> , 2006, 132, 800-813.	0.7	55
49	Measurements of turbulence characteristics in an open-channel flow over a transitionally-rough bed using particle image velocimetry. <i>Experiments in Fluids</i> , 2006, 41, 857-867.	1.1	55
50	RVR Meander: A toolbox for re-meandering of channelized streams. <i>Computers and Geosciences</i> , 2006, 32, 92-101.	2.0	51
51	Three-dimensional model to capture the fate and transport of combined sewer overflow discharges: A case study in the Chicago Area Waterway System. <i>Science of the Total Environment</i> , 2017, 576, 362-373.	3.9	50
52	Modeling of non-hydroplaning mudflows on continental slopes. <i>Marine Geology</i> , 1999, 154, 131-142.	0.9	49
53	Inexpensive fluorescent particles for large-scale experiments using particle image velocimetry. <i>Experiments in Fluids</i> , 2008, 45, 183-186.	1.1	49
54	Two-dimensional scour simulations based on coupled model of shallow water equations and sediment transport on unstructured meshes. <i>Coastal Engineering</i> , 2008, 55, 800-810.	1.7	47

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55	Errors in Acoustic Doppler Profiler Velocity Measurements Caused by Flow Disturbance. <i>Journal of Hydraulic Engineering</i> , 2007, 133, 1411-1420.	0.7	46
56	Experiments in a high-amplitude Kinoshita meandering channel: 2. Implications of bend orientation on bed morphodynamics. <i>Water Resources Research</i> , 2009, 45, .	1.7	46
57	Bedload transport and bed resistance associated with density and turbidity currents. <i>Sedimentology</i> , 2010, 57, 1463-1490.	1.6	46
58	Evaluation of the LISST-ST instrument for suspended particle size distribution and settling velocity measurements. <i>Continental Shelf Research</i> , 2006, 26, 943-958.	0.9	43
59	Efficient Second-Order Accurate Shock-Capturing Scheme for Modeling One- and Two-Phase Water Hammer Flows. <i>Journal of Hydraulic Engineering</i> , 2008, 134, 970-983.	0.7	42
60	Risk of Sediment Erosion and Suspension in Turbulent Flows. <i>Journal of Hydraulic Engineering</i> , 2001, 127, 231-235.	0.7	41
61	A unified model for bedform development and equilibrium under unidirectional, oscillatory and combined-flows. <i>Sedimentology</i> , 2014, 61, 2063-2085.	1.6	41
62	Discussions and Closure: Sand-Dune Geometry of Large Rivers during Floods. <i>Journal of Hydraulic Engineering</i> , 1997, 123, 582-585.	0.7	40
63	Integrated urban hydrologic and hydraulic modelling in Chicago, Illinois. <i>Environmental Modelling and Software</i> , 2016, 77, 63-70.	1.9	40
64	Length scales and statistical characteristics of outer bank roughness for large elongate meander bends: The influence of bank material properties, floodplain vegetation and flow inundation. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 2024-2037.	1.2	40
65	Assessment of Floodplain Vulnerability during Extreme Mississippi River Flood 2011. <i>Environmental Science & Technology</i> , 2014, 48, 2619-2625.	4.6	39
66	Application of the FluEgg model to predict transport of Asian carp eggs in the Saint Joseph River (Great Lakes tributary). <i>Journal of Great Lakes Research</i> , 2015, 41, 374-386.	0.8	39
67	Secondary Current of Saline Underflow In A Highly Meandering Channel: Experiments and Theory. <i>Journal of Sedimentary Research</i> , 2011, 81, 787-813.	0.8	38
68	Flow over bedforms in a large sand-bed river: A field investigation. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2008, 46, 322-333.	0.7	37
69	Mixing at the front of gravity currents. <i>Dynamics of Atmospheres and Oceans</i> , 1996, 24, 197-205.	0.7	36
70	The Legend of A. F. Shields. <i>Journal of Hydraulic Engineering</i> , 2000, 126, 718-723.	0.7	36
71	Characterization of flow turbulence in large-scale bubble-plume experiments. <i>Experiments in Fluids</i> , 2006, 41, 91-101.	1.1	36
72	Characterization of near-bed coherent structures in turbulent open channel flow using synchronized high-speed video and hot-film measurements. <i>Experiments in Fluids</i> , 1995, 19, 16-28.	1.1	34

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73	The bubble bursts for cavitation in natural rivers: laboratory experiments reveal minor role in bedrock erosion. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 1308-1316.	1.2	34
74	Geometry of scour hole around, and the influence of the angle of attack on the burial of finite cylinders under combined flows. <i>Ocean Engineering</i> , 2007, 34, 856-869.	1.9	33
75	Effect of particle inertia on the dynamics of depositional particulate density currents. <i>Computers and Geosciences</i> , 2008, 34, 1307-1318.	2.0	33
76	Computational Fluid Dynamics Modeling for the Design of Large Primary Settling Tanks. <i>Journal of Hydraulic Engineering</i> , 2011, 137, 343-355.	0.7	33
77	Hydrologic-Hydraulic Model for Simulating Dual Drainage and Flooding in Urban Areas: Application to a Catchment in the Metropolitan Area of Chicago. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015, 20, .	0.8	33
78	A tale of two riffles: Using multidimensional, multifractional, time-varying sediment transport to assess self-maintenance in pool-riffle sequences. <i>Water Resources Research</i> , 2017, 53, 2095-2113.	1.7	33
79	Modeling of one-dimensional turbidity currents with a dissipative-Galerkin finite element method. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1995, 33, 623-648.	0.7	32
80	Modeling the transport of oil-particle aggregates resulting from an oil spill in a freshwater environment. <i>Environmental Fluid Mechanics</i> , 2018, 18, 967-984.	0.7	31
81	Characterization of bedform morphology generated under combined flows and currents using wavelet analysis. <i>Ocean Engineering</i> , 2009, 36, 617-632.	1.9	29
82	Laboratory experiments on the formation of subaqueous depositional gullies by turbidity currents. <i>Marine Geology</i> , 2009, 258, 48-59.	0.9	29
83	Enhanced Sediment Scavenging Due to Double-Diffusive Convection. <i>Journal of Sedimentary Research</i> , 2000, 70, 47-52.	0.8	27
84	Computations of Curved Free Surface Water Flow on Spiral Concentrators. <i>Journal of Hydraulic Engineering</i> , 2001, 127, 629-631.	0.7	27
85	Geometry and migration characteristics of bedforms under waves and currents. <i>Coastal Engineering</i> , 2006, 53, 781-792.	1.7	27
86	Three-dimensional hydrodynamic modeling of the Chicago River, Illinois. <i>Environmental Fluid Mechanics</i> , 2012, 12, 471-494.	0.7	27
87	Three-dimensional numerical modeling of the Bulle effect: the nonlinear distribution of near-bed sediment at fluvial diversions. <i>Earth Surface Processes and Landforms</i> , 2017, 42, 2322-2337.	1.2	26
88	Entrainment response of bed sediment to time-varying flows. <i>Water Resources Research</i> , 2000, 36, 335-348.	1.7	25
89	ADCP Measurements of Gravity Currents in the Chicago River, Illinois. <i>Journal of Hydraulic Engineering</i> , 2007, 133, 1356-1366.	0.7	25
90	Combined PIV/PLIF measurements of a steady density current front. <i>Experiments in Fluids</i> , 2009, 46, 265-276.	1.1	25

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91	Geometry and migration characteristics of bedforms under waves and currents. Part 1: Sandwave morphodynamics. <i>Coastal Engineering</i> , 2006, 53, 767-780.	1.7	23
92	Innovative modeling framework for combined sewer overflows prediction. <i>Urban Water Journal</i> , 2017, 14, 97-111.	1.0	23
93	Spreading of Gravity Plumes on an Incline. <i>Coastal Engineering Journal</i> , 2001, 43, 221-237.	0.7	22
94	Flow, turbulence, and resistance in a flume with simulated vegetation. <i>Water Science and Application</i> , 2004, , 11-27.	0.3	22
95	Noise-resolution trade-off in projection algorithms for laser diffraction particle sizing. <i>Applied Optics</i> , 2006, 45, 3620.	2.1	22
96	Density currents in the Chicago River: Characterization, effects on water quality, and potential sources. <i>Science of the Total Environment</i> , 2008, 401, 130-143.	3.9	22
97	Laboratory measurement of suspended sediment concentration using an Acoustic Concentration Profiler (ACP). <i>Experiments in Fluids</i> , 2000, 28, 116-127.	1.1	21
98	Self-Burial of Short Cylinders Under Oscillatory Flows and Combined Waves Plus Currents. <i>IEEE Journal of Oceanic Engineering</i> , 2007, 32, 191-203.	2.1	21
99	Experiments on Wedge-Shaped Deep Sea Sedimentary Deposits in Minibasins and/or on Channel Levees Emplaced by Turbidity Currents. Part I. Documentation of the Flow. <i>Journal of Sedimentary Research</i> , 2009, 79, 593-607.	0.8	21
100	Burial of Short Cylinders Induced by Scour under Combined Waves and Currents. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2006, 132, 439-449.	0.5	20
101	In Situ Characterization of Resuspended-Sediment Oxygen Demand in Bubbly Creek, Chicago, Illinois. <i>Journal of Environmental Engineering, ASCE</i> , 2011, 137, 717-730.	0.7	20
102	Vortex trajectory hysteresis above self-formed vortex ripples. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006, 44, 437-450.	0.7	19
103	Experimental Studies on Burial of Finite-Length Cylinders under Oscillatory Flow. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2007, 133, 117-124.	0.5	19
104	Junction and Drop-Shaft Boundary Conditions for Modeling Free-Surface, Pressurized, and Mixed Free-Surface Pressurized Transient Flows. <i>Journal of Hydraulic Engineering</i> , 2010, 136, 705-715.	0.7	19
105	Hydraulic Evaluation of the Design and Operation of Ancient Rome's Anio Novus Aqueduct. <i>Archaeometry</i> , 2017, 59, 1150-1174.	0.6	19
106	Engelund's Analysis of Turbulent Energy and Suspended Load. <i>Journal of Engineering Mechanics - ASCE</i> , 1998, 124, 480-483.	1.6	18
107	Pollution of Gravel Spawning Grounds by Deposition of Suspended Sediment. <i>Journal of Environmental Engineering, ASCE</i> , 2000, 126, 963-967.	0.7	18
108	Modeling turbidity currents with nonuniform sediment and reverse buoyancy. <i>Water Resources Research</i> , 2009, 45, .	1.7	18

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109	Bed morphology, flow structure, and sediment transport at the outlet of Lake Huron and in the upper St. Clair River. <i>Journal of Great Lakes Research</i> , 2011, 37, 480-493.	0.8	18
110	A Three-Dimensional Water Quality Model of Chicago Area Waterway System (CAWS). <i>Environmental Modeling and Assessment</i> , 2013, 18, 567-592.	1.2	18
111	Effect of initial excess density and discharge on constant flux gravity currents propagating on a slope. <i>Environmental Fluid Mechanics</i> , 2014, 14, 409-429.	0.7	18
112	Alluvial Roughness in Streams with Dunes: A Boundary-Layer Approach. , 2001, , 37-60.		18
113	Acoustic measurement of suspended sediment concentration profiles in an oscillatory boundary layer. <i>Continental Shelf Research</i> , 2012, 46, 87-95.	0.9	17
114	Three-dimensional flow in centered pool-riffle sequences. <i>Water Resources Research</i> , 2013, 49, 202-215.	1.7	17
115	Development of a Rapid Response Riverine Oil-Particle Aggregate Formation, Transport, and Fate Model. <i>Journal of Environmental Engineering, ASCE</i> , 2018, 144, .	0.7	17
116	Modeling Framework for Organic Sediment Resuspension and Oxygen Demand: Case of Bubbly Creek in Chicago. <i>Journal of Environmental Engineering, ASCE</i> , 2010, 136, 952-964.	0.7	16
117	Modeling of a Transient Event in the Tunnel and Reservoir Plan System in Chicago, Illinois. <i>Journal of Hydraulic Engineering</i> , 2014, 140, .	0.7	16
118	A Laboratory Investigation of the Suspension, Transport, and Settling of Silver Carp Eggs Using Synthetic Surrogates. <i>PLoS ONE</i> , 2015, 10, e0145775.	1.1	15
119	Sediment management by jets and turbidity currents with application to a reservoir for flood and pollution control in Chicago, Illinois. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009, 47, 340-348.	0.7	14
120	Impact of combined sewer overflow on urban river hydrodynamic modelling: a case study of the Chicago waterway. <i>Urban Water Journal</i> , 2017, 14, 984-989.	1.0	14
121	Numerical modeling of simultaneous tracer release and piscicide treatment for invasive species control in the Chicago Sanitary and Ship Canal, Chicago, Illinois. <i>Environmental Fluid Mechanics</i> , 2017, 17, 211-229.	0.7	14
122	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
123	Modulation of the flow structure by progressive bedforms in the Kinoshita meandering channel. <i>Earth Surface Processes and Landforms</i> , 2013, 38, 1612-1622.	1.2	13
124	ASCE Manual of Practice 110 "Sedimentation Engineering: Processes, Measurements, Modeling and Practice. , 2006, , 1.		12
125	Scour and burial mechanics of conical frustums on a sandy bed under combined flow conditions. <i>Ocean Engineering</i> , 2011, 38, 1256-1268.	1.9	12
126	Discussion of "Efficient Algorithm for Computing Einstein Integrals" by Junke Guo and Pierre Y. Julien. <i>Journal of Hydraulic Engineering</i> , 2006, 132, 332-334.	0.7	11

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127	Friction coefficient for oscillatory flow: the rough-to-smooth turbulent transition. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009, 47, 438-444.	0.7	11
128	Travertine-based estimates of the amount of water supplied by ancient Rome's Anio Novus aqueduct. <i>Journal of Archaeological Science: Reports</i> , 2015, 3, 1-10.	0.2	11
129	Closure to "Turbulence Measurements with Acoustic Doppler Velocimeters" by Carlos M. Garcia, Mariano I. Cantero, Yarko Nieto, and Marcelo H. Garcia. <i>Journal of Hydraulic Engineering</i> , 2007, 133, 1289-1292.	0.7	9
130	Gravity currents down a slope in deceleration phase. <i>Dynamics of Atmospheres and Oceans</i> , 2010, 49, 75-82.	0.7	9
131	Sediment mobility and bed armoring in the St Clair River: insights from hydrodynamic modeling. <i>Earth Surface Processes and Landforms</i> , 2012, 37, 957-970.	1.2	9
132	Hydraulic resistance in mixed bedrock-alluvial meandering channels. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021, 59, 298-313.	0.7	9
133	Co-evolving delta faces under the condition of a moving sediment source. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2011, 49, 42-54.	0.7	8
134	Erosion of glacial till from the St. Clair River (Great Lakes basin). <i>Journal of Great Lakes Research</i> , 2011, 37, 399-410.	0.8	8
135	Assessing the system performance of an evolving and integrated urban drainage system to control combined sewer overflows using a multiple-layer based coupled modeling approach. <i>Journal of Hydrology</i> , 2021, 603, 127130.	2.3	8
136	Effect of self-stratification on sediment diffusivity in channel flows and boundary layers: a study using direct numerical simulations. <i>Earth Surface Dynamics</i> , 2014, 2, 419-431.	1.0	7
137	Application of computational fluid dynamic modelling to improve flow and grit transport in Terrence J. O'Brien Water Reclamation Plant, Chicago, Illinois. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 759-774.	0.7	7
138	Implications of Climate Change on the Heat Budget of Lentic Systems Used for Power Station Cooling: Case Study Clinton Lake, Illinois. <i>Environmental Science & Technology</i> , 2016, 50, 478-488.	4.6	7
139	Reducing the Flood Risk of Art Cities: The Case of Florence. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	0.7	7
140	An Efficient Finite-Volume Scheme for Modeling Water Hammer Flows. <i>Journal of Water Management Modeling</i> , 2007, .	0.0	7
141	Turbulent kinetic energy balance of an oscillatory boundary layer in the transition to the fully turbulent regime. <i>Journal of Turbulence</i> , 2011, 12, N32.	0.5	6
142	Experimental and Numerical Study of the Flow Structure around Two Partially Buried Objects on a Deformed Bed. <i>Journal of Hydraulic Engineering</i> , 2013, 139, 269-283.	0.7	6
143	PIV experiments in rough-wall, laminar-to-turbulent, oscillatory boundary-layer flows. <i>Experiments in Fluids</i> , 2014, 55, 1.	1.1	6
144	On the near-wall effects induced by an axial-flow rotor. <i>Renewable Energy</i> , 2016, 91, 524-530.	4.3	6

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145	A well-balanced and positivity-preserving SPH method for shallow water flows in open channels. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021, 59, 903-916.	0.7	6
146	Evoluci3n temporal de las sequ3as hidrol3gicas en Argentina y su relaci3n con indicadores macroclim3ticos. <i>Tecnologia Y Ciencias Del Agua</i> , 2018, 9, 01-32.	0.1	6
147	Physical Habitat Analysis and Design of In-Channel Structures on a Chicago, IL Urban Drainage: A Stream Naturalization Design Process. , 2002, , 1.		5
148	Conceptual and Mathematical Model for Evolution of Meandering Rivers in Naturalization Processes. , 2004, , 1.		5
149	Numerical Simulation of Local Scour with Free Surface and Automatic Mesh Deformation. , 2006, , 1.		5
150	Prediction of Margin Stratigraphy. , 0, , 459-529.		5
151	Discussion of "Note on the Analysis of Plunging of Density Flows" by Gary Parker and Horacio Toniolo. <i>Journal of Hydraulic Engineering</i> , 2009, 135, 532-533.	0.7	5
152	Analysis of plunging phenomena. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009, 47, 638-642.	0.7	5
153	WaveAR: A software tool for calculating parameters for water waves with incident and reflected components. <i>Computers and Geosciences</i> , 2012, 46, 38-43.	2.0	5
154	Nonlinear Distribution of Sediment at River Diversions: Brief History of the Bulle Effect and Its Implications. <i>Journal of Hydraulic Engineering</i> , 2018, 144, .	0.7	5
155	Relationship of point bar morphology to channel curvature and planform evolution. <i>Geomorphology</i> , 2021, 375, 107541.	1.1	5
156	pyRiverBed: A Python framework to generate synthetic riverbed topography for constant-width meandering rivers. <i>Computers and Geosciences</i> , 2021, 152, 104755.	2.0	5
157	Studies of Mass-Movement Processes on Submarine Slopes. <i>Oceanography</i> , 1996, 9, 168-172.	0.5	5
158	Mean flow structure and velocity bed shear stress maxima phase difference in smooth wall, transitionally turbulent oscillatory boundary layers: direct numerical simulations. <i>Journal of Fluid Mechanics</i> , 2021, 928, .	1.4	5
159	Naturalization of Urban Streams Using In-Channel Structures. , 2000, , 1.		4
160	Exploratory Study of Oscillatory Flow over a Movable Sediment Bed with Particle-Image-Velocimetry (PIV). , 2002, , 1.		4
161	Erosion of Finite Thickness Sediment Beds by Single and Multiple Circular Jets. <i>Journal of Hydraulic Engineering</i> , 2007, 133, 495-507.	0.7	4
162	Sedimentation Hazards. , 2008, , 885-936.		4

#	ARTICLE	IF	CITATIONS
163	Two-Dimensional BOD and DO Water Quality Model for Engineering Applications: The Case of Bubbly Creek in Chicago, Illinois. , 2009, , .		4
164	Analytical Lagrangian Model of Sediment Oxygen Demand and Reaeration Flux Coevolution in Streams. Journal of Environmental Engineering, ASCE, 2016, 142, 04016028.	0.7	4
165	Coherent structures in oscillatory flows within the laminar-to-turbulent transition regime for smooth and rough walls. Journal of Hydraulic Research/De Recherches Hydrauliques, 2016, 54, 502-515.	0.7	4
166	Input-variable sensitivity assessment for sediment transport relations. Water Resources Research, 2017, 53, 8105-8119.	1.7	4
167	HydroSedFoam: A new parallelized two-dimensional hydrodynamic, sediment transport, and bed morphology model. Computers and Geosciences, 2018, 120, 32-39.	2.0	4
168	Upper Mississippi River Flow and Sediment Characteristics and Their Effect on a Harbor Siltation Case. Journal of Hydraulic Engineering, 2018, 144, 04018066.	0.7	4
169	Nonlinear Bedload Transport Trajectory Angle Expressed in a Traditional Form: Derivation and Application. Journal of Hydraulic Engineering, 2019, 145, 04019028.	0.7	4
170	Mean flow structure and velocity-bed shear stress maxima phase difference in smooth wall, transitionally turbulent oscillatory boundary layers: experimental observations. Journal of Fluid Mechanics, 2021, 922, .	1.4	4
171	Large Eddy Simulation (LES) of flow and bedload transport at an idealized 90-degree diversion: Insight into Bulle-Effect. , 2016, , .		4
172	Travertine crystal growth ripples record the hydraulic history of ancient Rome's Anio Novus aqueduct. Scientific Reports, 2022, 12, 1239.	1.6	4
173	Mean Flow and Turbulence Characteristics in Pool-Riffle Structures. , 2002, , 1.		3
174	Burial of Short Cylinders Induced by Scour and Bedforms under Waves plus Currents. , 2005, , 1.		3
175	Bathymetric Evolution of a Sandy Bed under Transient Progressive Waves. , 2007, , .		3
176	Unstable flow structure around partially buried objects on a simulated river bed. Journal of Hydroinformatics, 2017, 19, 31-46.	1.1	3
177	Visualization of the Bulle-Effect at River Bifurcations. , 2018, , .		3
178	Illinois Transient Model: Simulating the Flow Dynamics in Combined Storm Sewer Systems. Journal of Water Management Modeling, 2011, , .	0.0	3
179	FluOil: A Novel Tool for Modeling the Transport of Oil-Particle Aggregates in Inland Waterways. Frontiers in Water, 2022, 3, .	1.0	3
180	Velocity and Sediment Concentration Measurements over Bedforms in Sand-Bed Rivers. , 2002, , 1.		2

#	ARTICLE	IF	CITATIONS
181	In-Situ Measurements of Sediment Oxygen Demand by Suspended Biosolids. , 2002, , 1.		2
182	Closure to "Hydraulic Design of Large-Diameter Pipes" by Fabián A. Bombardelli and Marcelo H. García. Journal of Hydraulic Engineering, 2005, 131, 224-225.	0.7	2
183	CFD Modeling Optimizes the Design of Primary Settling Tanks at MWRDGC's Calumet Water Reclamation Plant. Proceedings of the Water Environment Federation, 2008, 2008, 1698-1713.	0.0	2
184	Optimal Design of the Chicago Calumet Water Reclamation Plant (CCWRP) Primary Settling Tanks with 3D Numerical Models. , 2008, , .		2
185	Computational Fluid Dynamics (CFD) Modeling of Flow into the Aerated Grit Chamber of the MWRD's North Side Water Reclamation Plant, Illinois. , 2010, , .		2
186	Modelling deltaic progradation constrained by a moving sediment source. Journal of Hydraulic Research/De Recherches Hydrauliques, 2013, 51, 284-292.	0.7	2
187	Innovative framework to simulate the fate and transport of nonconservative constituents in urban combined sewer catchments. Water Resources Research, 2016, 52, 9164-9181.	1.7	2
188	Improved understanding of combined sewer systems using the Illinois Conveyance Analysis Program (ICAP). Urban Water Journal, 2017, 14, 811-819.	1.0	2
189	Entrainment, Transport, and Fate of Sediments during Storm Events in Urban Canals and Rivers: Case Study on Bubbly Creek, Chicago. Journal of Hydraulic Engineering, 2021, 147, .	0.7	2
190	Arbitrary Lagrangian-Eulerian Approach for Finite Element Modeling of Two-dimensional Turbidity Currents. Water International, 1996, 21, 175-182.	0.4	1
191	Prediction of the Behavior of Hydraulic Jumps in Canoe Chutes. , 2000, , 1.		1
192	On the impact of journal papers: The Muskingum-Cunge flood-routing method. Journal of Hydraulic Research/De Recherches Hydrauliques, 2003, 41, 563-563.	0.7	1
193	Buoyancy-Driven Flow in a Two-Story Compartment. Journal of Engineering Mechanics - ASCE, 2009, 135, 738-742.	1.6	1
194	A Robust and Fast Model for Simulating Street Flooding. , 2009, , .		1
195	Boundary Conditions for Simulating Complex Storm-Sewer Systems in Free Surface, Pressurized, and Mixed Flow Conditions. , 2009, , .		1
196	Hydraulic Model Study of Canoe Chute and Fish Passage for the Chicago River North Branch Dam. , 2009, , .		1
197	Stability of a Pair of Counterrotating and Corotating Vortices of Different Strengths. Journal of Engineering Mechanics - ASCE, 2009, 135, 591-595.	1.6	1
198	Energy Dissipative Plunging Flows. Journal of Hydraulic Engineering, 2010, 136, 519-523.	0.7	1

#	ARTICLE	IF	CITATIONS
199	Experimental Investigation of a Vortex-Flow Restrictor: Rain-Blocker Performance Tests. Journal of Hydraulic Engineering, 2010, 136, 528-533.	0.7	1
200	Flow Dynamics in Combined Storm-Sewer Systems: Application of the Illinois Transient Model (ITM) to the Calumet TARP System in Chicago, Illinois. , 2010, , .		1
201	Discussion of "Evaluation of Sediment Diversion Design Attributes and Their Impact on the Capture Efficiency" by Ahmed Gaweesh and Ehab Meselhe. Journal of Hydraulic Engineering, 2018, 144, 07018007.	0.7	1
202	Using Lagrangian particle saltation observations for bedload sediment transport modelling. , 1998, 12, 1197.		1
203	Hydraulics. , 2007, , 959-1042.		1
204	Experimental comparison of initiation of motion for submerged objects resting on fixed permeable and impermeable beds. Physical Review Fluids, 2019, 4, .	1.0	1
205	Numerical modeling of sediment traps after the 2010 Kalamazoo River oil spill, Michigan, USA. , 2016, , .		1
206	Impact of Lake Michigan water level rise on complex bidirectional flow in the Chicago Area Waterway System (CAWS). Journal of Great Lakes Research, 2021, 47, 1626-1643.	0.8	1
207	The role of dunes in flow resistance in a large and a small river. The case of the Paran and Tercero rivers, Argentina. Journal of Hydraulic Research/De Recherches Hydrauliques, 2022, 60, 389-407.	0.7	1
208	Steady-State Parallel Retreat Migration in River Bends With Noncohesive (Composite) Banks. Water Resources Research, 2022, 58, .	1.7	1
209	Sedimentation in Vegetated Rivers. , 1998, , 937.		0
210	Building up on the Legacy of Vito Vanoni: Volume 2 of Manual 54 "Sedimentation Engineering". , 2000, , 1.		0
211	Alluvial Resistance and Sediment Transport for Flows over Dunes. , 2000, , 1.		0
212	Bank Erosion in Meandering Rivers. , 2000, , 1.		0
213	Celebrating more than 40 years of service to the profession. Journal of Hydraulic Research/De Recherches Hydrauliques, 2004, 42, 339-340.	0.7	0
214	Characterizing a December 2005 Density Current Event in the Chicago River, Chicago, Illinois. , 2006, , 1.		0
215	Effect of Particle Inertia in Particulate Density Currents. , 2006, , 393-402.		0
216	A Finite Volume Model for Mixed Surface-Pressurized Flows in Drainage Systems. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
217	Closure to "Burial of Short Cylinders Induced by Scour under Combined Waves and Currents" by Yovanni A. Cataño-Lopera and Marcelo H. García. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2008, 134, 262-264.	0.5	0
218	Physical Modeling to Optimize Chicago's New Calumet Influent Pumping Station. <i>Proceedings of the Water Environment Federation</i> , 2008, 2008, 4634-4642.	0.0	0
219	Plunging conditions of two-dimensional negative buoyant surface jets released on a sloping bottom. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009, 47, 681-682.	0.7	0
220	Meandering Instability of a Vertical Plume. <i>Journal of Engineering Mechanics - ASCE</i> , 2009, 135, 111-114.	1.6	0
221	Stephen Edward Coleman (1966–2012). <i>Acta Geophysica</i> , 2012, 60, 1500-1501.	1.0	0
222	Depositional and diagenetic history of travertine deposited within the Anio Novus aqueduct of ancient Rome. , 2022, , 541-570.		0