

Marcelo H Garcia

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7488821/marcelo-h-garcia-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

219
papers

7,148
citations

45
h-index

78
g-index

235
ext. papers

7,883
ext. citations

3.1
avg, IF

6.13
L-index

#	Paper	IF	Citations
219	Entrainment of Bed Sediment into Suspension. <i>Journal of Hydraulic Engineering</i> , 1991 , 117, 414-435	1.8	356
218	Experiments on turbidity currents over an erodible bed. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1987 , 25, 123-147	1.9	293
217	Mean Flow and Turbulence Structure of Open-Channel Flow through Non-Emergent Vegetation. <i>Journal of Hydraulic Engineering</i> , 2001 , 127, 392-402	1.8	282
216	Experiments on particle-turbulence interactions in the near-wall region of an open channel flow: implications for sediment transport. <i>Journal of Fluid Mechanics</i> , 1996 , 326, 285-319	3.7	238
215	A Herschel-Bulkley model for mud flow down a slope. <i>Journal of Fluid Mechanics</i> , 1998 , 374, 305-333	3.7	227
214	Experiments on the entrainment of sediment into suspension by a dense bottom current. <i>Journal of Geophysical Research</i> , 1993 , 98, 4793-4807		177
213	open-channel flow through simulated vegetation: Suspended sediment transport modeling. <i>Water Resources Research</i> , 1998 , 34, 2341-2352	5.4	173
212	On the front velocity of gravity currents. <i>Journal of Fluid Mechanics</i> , 2007 , 586, 1-39	3.7	171
211	Depositional Turbidity Currents Laden with Poorly Sorted Sediment. <i>Journal of Hydraulic Engineering</i> , 1994 , 120, 1240-1263	1.8	171
210	Hydraulic Jumps in Sediment-Driven Bottom Currents. <i>Journal of Hydraulic Engineering</i> , 1993 , 119, 1094-1117	1.8	164
209	Gravel saltation: 1. Experiments. <i>Water Resources Research</i> , 1994 , 30, 1907-1914	5.4	152
208	Sediment Transport and Morphodynamics 2008 , 21-163		145
207	Threshold for particle entrainment into suspension. <i>Sedimentology</i> , 2003 , 50, 247-263	3.3	140
206	Turbulence Measurements with Acoustic Doppler Velocimeters. <i>Journal of Hydraulic Engineering</i> , 2005 , 131, 1062-1073	1.8	124
205	Three-Dimensional Numerical Model with Free Water Surface and Mesh Deformation for Local Sediment Scour. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2008 , 134, 203-217	1.7	120
204	Experiments on hydraulic jumps in turbidity currents near a canyon-fan transition. <i>Science</i> , 1989 , 245, 393-6	33.3	113
203	Using Lagrangian particle saltation observations for bedload sediment transport modelling 1998 , 12, 1197-1218		108

202	Gravel Saltation: 2. Modeling. <i>Water Resources Research</i> , 1994 , 30, 1915-1924	5.4	100
201	A simplified 2D model for meander migration with physically-based bank evolution. <i>Geomorphology</i> , 2012 , 163-164, 10-25	4.3	98
200	Experiments on Saltation of Sand in Water. <i>Journal of Hydraulic Engineering</i> , 1998 , 124, 1014-1025	1.8	89
199	Spatial variability in bank resistance to erosion on a large meandering, mixed bedrock-alluvial river. <i>Geomorphology</i> , 2016 , 252, 80-97	4.3	84
198	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	1.8	80
197	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	1.9	80
196	Flow Structure at Different Stages in a Meander-Bend with Bendway Weirs. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 1052-1063	1.8	78
195	Turbulent structures in planar gravity currents and their influence on the flow dynamics. <i>Journal of Geophysical Research</i> , 2008 , 113,		78
194	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	2.1	77
193	High-resolution simulations of cylindrical density currents. <i>Journal of Fluid Mechanics</i> , 2007 , 590, 437-469	3.7	69
192	Experimental study on self-accelerating turbidity currents. <i>Journal of Geophysical Research</i> , 2009 , 114,		67
191	A Perturbation Solution for Bingham-Plastic Mudflows. <i>Journal of Hydraulic Engineering</i> , 1997 , 123, 986-994		67
190	High-resolution Numerical Simulation of Flow Through a Highly Sinuous River Reach. <i>Water Resources Management</i> , 2004 , 18, 177-199	3.7	67
189	Numerical modeling of large-scale bubble plumes accounting for mass transfer effects. <i>International Journal of Multiphase Flow</i> , 2002 , 28, 1763-1785	3.6	62
188	A robust two-equation model for transient-mixed flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2010 , 48, 44-56	1.9	55
187	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	1.9	55
186	Direct Numerical Simulations of Planar and Cylindrical Density Currents. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2006 , 73, 923-930	2.7	55
185	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	1.9	55

184	Confidence intervals in the determination of turbulence parameters. <i>Experiments in Fluids</i> , 2006 , 40, 514-522	2.5	53
183	Wall Similarity in Turbulent Open-Channel Flow. <i>Journal of Engineering Mechanics - ASCE</i> , 1999 , 125, 789-796		53
182	Hydrodynamic and sediment transport modeling with emphasis on shallow-water, vegetated areas (lakes, reservoirs, estuaries and lagoons). <i>Hydrobiologia</i> , 2001 , 444, 1-23	2.4	52
181	An Eulerian-Eulerian model for gravity currents driven by inertial particles. <i>International Journal of Multiphase Flow</i> , 2008 , 34, 484-501	3.6	51
180	INTEGRATING SCIENCE AND TECHNOLOGY TO SUPPORT STREAM NATURALIZATION NEAR CHICAGO, ILLINOIS1. <i>Journal of the American Water Resources Association</i> , 2002 , 38, 931-944	2.1	51
179	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	3	49
178	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	5.4	48
177	RVR Meander: A toolbox for re-meandering of channelized streams. <i>Computers and Geosciences</i> , 2006 , 32, 92-101	4.5	46
176	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	2.5	46
175	2D stream hydrodynamic, sediment transport and bed morphology model for engineering applications. <i>Hydrological Processes</i> , 2008 , 22, 1443-1459	3.3	45
174	Comparative 1D and 3D numerical investigation of open-channel junction flows and energy losses. <i>Advances in Water Resources</i> , 2018 , 117, 120-139	4.7	43
173	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,	5.4	42
172	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	4.8	42
171	Application of Godunov-type schemes to transient mixed flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009 , 47, 147-156	1.9	41
170	Modeling of non-hydroplaning mudflows on continental slopes. <i>Marine Geology</i> , 1999 , 154, 131-142	3.3	41
169	Inexpensive fluorescent particles for large-scale experiments using particle image velocimetry. <i>Experiments in Fluids</i> , 2008 , 45, 183-186	2.5	40
168	A New Phase Diagram for Combined-Flow Bedforms. <i>Journal of Sedimentary Research</i> , 2014 , 84, 301-313	2.1	39
167	Evaluation of the LISST-ST instrument for suspended particle size distribution and settling velocity measurements. <i>Continental Shelf Research</i> , 2006 , 26, 943-958	2.4	38

166	Bedload transport and bed resistance associated with density and turbidity currents. <i>Sedimentology</i> , 2010 , 57, 1463-1490	3.3	37
165	Godunov-Type Solutions for Transient Flows in Sewers. <i>Journal of Hydraulic Engineering</i> , 2006 , 132, 800-813		36
164	Errors in Acoustic Doppler Profiler Velocity Measurements Caused by Flow Disturbance. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 1411-1420	1.8	35
163	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	1.8	34
162	Methods for Evaluating the Geomorphological Performance of Naturalized Rivers: Examples from the Chicago Metropolitan Area		209-228 34
161	Assessment of floodplain vulnerability during extreme Mississippi River flood 2011. <i>Environmental Science & Technology</i> , 2014 , 48, 2619-25	10.3	33
160	A unified model for bedform development and equilibrium under unidirectional, oscillatory and combined-flows. <i>Sedimentology</i> , 2014 , 61, 2063-2085	3.3	33
159	Secondary Current of Saline Underflow In A Highly Meandering Channel: Experiments and Theory. <i>Journal of Sedimentary Research</i> , 2011 , 81, 787-813	2.1	33
158	Risk of Sediment Erosion and Suspension in Turbulent Flows. <i>Journal of Hydraulic Engineering</i> , 2001 , 127, 231-235	1.8	33
157	Mixing at the front of gravity currents. <i>Dynamics of Atmospheres and Oceans</i> , 1996 , 24, 197-205	1.9	33
156	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	3.7	32
155	Discussions and Closure: Sand-Dune Geometry of Large Rivers during Floods. <i>Journal of Hydraulic Engineering</i> , 1997 , 123, 582-585	1.8	32
154	Effect of particle inertia on the dynamics of depositional particulate density currents. <i>Computers and Geosciences</i> , 2008 , 34, 1307-1318	4.5	32
153	Integrated urban hydrologic and hydraulic modelling in Chicago, Illinois. <i>Environmental Modelling and Software</i> , 2016 , 77, 63-70	5.2	31
152	Experiments in a high-amplitude Kinoshita meandering channel: 2. Implications of bend orientation on bed morphodynamics. <i>Water Resources Research</i> , 2009 , 45,	5.4	31
151	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	10.2	30
150	Characterization of flow turbulence in large-scale bubble-plume experiments. <i>Experiments in Fluids</i> , 2006 , 41, 91-101	2.5	30
149	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	2.5	30

148	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	3	28
147	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	5.4	27
146	The Mechanics of Marine Sediment Gravity Flows 275-337		27
145	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	3.9	27
144	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	1.9	27
143	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	3.7	26
142	Computational Fluid Dynamics Modeling for the Design of Large Primary Settling Tanks. <i>Journal of Hydraulic Engineering</i> , 2011 , 137, 343-355	1.8	25
141	The Legend of A. F. Shields. <i>Journal of Hydraulic Engineering</i> , 2000 , 126, 718-723	1.8	25
140	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, 04014071	1.8	24
139	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	2.2	24
138	Enhanced Sediment Scavenging Due to Double-Diffusive Convection. <i>Journal of Sedimentary Research</i> , 2000 , 70, 47-52	2.1	24
137	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	1.9	23
136	Three-dimensional hydrodynamic modeling of the Chicago River, Illinois. <i>Environmental Fluid Mechanics</i> , 2012 , 12, 471-494	2.2	22
135	Combined PIV/PLIF measurements of a steady density current front. <i>Experiments in Fluids</i> , 2009 , 46, 265-276	2.3	22
134	Laboratory experiments on the formation of subaqueous depositional gullies by turbidity currents. <i>Marine Geology</i> , 2009 , 258, 48-59	3.3	22
133	Computations of Curved Free Surface Water Flow on Spiral Concentrators. <i>Journal of Hydraulic Engineering</i> , 2001 , 127, 629-631	1.8	22
132	Three-dimensional numerical modeling of the Bullé effect: the nonlinear distribution of near-bed sediment at fluvial diversions. <i>Earth Surface Processes and Landforms</i> , 2017 , 42, 2322-2337	3.7	21
131	Density currents in the Chicago River: characterization, effects on water quality, and potential sources. <i>Science of the Total Environment</i> , 2008 , 401, 130-43	10.2	20

130	Geometry and migration characteristics of bedforms under waves and currents. <i>Coastal Engineering</i> , 2006 , 53, 781-792	4.8	20
129	Flow, turbulence, and resistance in a flume with simulated vegetation. <i>Water Science and Application</i> , 2004 , 11-27		20
128	Characterization of bedform morphology generated under combined flows and currents using wavelet analysis. <i>Ocean Engineering</i> , 2009 , 36, 617-632	3.9	19
127	In Situ Characterization of Resuspended-Sediment Oxygen Demand in Bubbly Creek, Chicago, Illinois. <i>Journal of Environmental Engineering, ASCE</i> , 2011 , 137, 717-730	2	19
126	Geometry and migration characteristics of bedforms under waves and currents. Part 1: Sandwave morphodynamics. <i>Coastal Engineering</i> , 2006 , 53, 767-780	4.8	19
125	Spreading of Gravity Plumes on an Incline. <i>Coastal Engineering Journal</i> , 2001 , 43, 221-237	2.8	19
124	Innovative modeling framework for combined sewer overflows prediction. <i>Urban Water Journal</i> , 2017 , 14, 97-111	2.3	18
123	ADCP Measurements of Gravity Currents in the Chicago River, Illinois. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 1356-1366	1.8	18
122	Self-Burial of Short Cylinders Under Oscillatory Flows and Combined Waves Plus Currents. <i>IEEE Journal of Oceanic Engineering</i> , 2007 , 32, 191-203	3.3	18
121	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	1.8	17
120	Modeling turbidity currents with nonuniform sediment and reverse buoyancy. <i>Water Resources Research</i> , 2009 , 45,	5.4	17
119	Noise-resolution trade-off in projection algorithms for laser diffraction particle sizing. <i>Applied Optics</i> , 2006 , 45, 3620-8	1.7	17
118	Entrainment response of bed sediment to time-varying flows. <i>Water Resources Research</i> , 2000 , 36, 335-348	3.4	17
117	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	2.1	16
116	Vortex trajectory hysteresis above self-formed vortex ripples. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006 , 44, 437-450	1.9	16
115	Laboratory measurement of suspended sediment concentration using an Acoustic Concentration Profiler (ACP). <i>Experiments in Fluids</i> , 2000 , 28, 116-127	2.5	16
114	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	2.2	15
113	Acoustic measurement of suspended sediment concentration profiles in an oscillatory boundary layer. <i>Continental Shelf Research</i> , 2012 , 46, 87-95	2.4	15

112	A Three-Dimensional Water Quality Model of Chicago Area Waterway System (CAWS). <i>Environmental Modeling and Assessment</i> , 2013 , 18, 567-592	2	15
111	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	3	15
110	Alluvial Roughness in Streams with Dunes: A Boundary-Layer Approach 2001 , 37-60		15
109	Three-dimensional flow in centered pool-riffle sequences. <i>Water Resources Research</i> , 2013 , 49, 202-215	5.4	14
108	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	2	14
107	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	1.9	14
106	Engelund's Analysis of Turbulent Energy and Suspended Load. <i>Journal of Engineering Mechanics - ASCE</i> , 1998 , 124, 480-483	2.4	14
105	Oil-particle interactions and submergence from crude oil spills in marine and freshwater environments: review of the science and future research needs. <i>US Geological Survey Open-File Report</i> ,		14
104	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	1.7	13
103	Hydraulic Evaluation of the Design and Operation of Ancient Rome's Anio Novus Aqueduct. <i>Archaeometry</i> , 2017 , 59, 1150-1174	1.6	12
102	Modeling of a Transient Event in the Tunnel and Reservoir Plan System in Chicago, Illinois. <i>Journal of Hydraulic Engineering</i> , 2014 , 140, 05014005	1.8	12
101	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	2.2	12
100	Pollution of Gravel Spawning Grounds by Deposition of Suspended Sediment. <i>Journal of Environmental Engineering, ASCE</i> , 2000 , 126, 963-967	2	12
99	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	2.3	11
98	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	1.9	11
97	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	1.7	11
96	ASCE Manual of Practice 110 Sedimentation Engineering: Processes, Measurements, Modeling and Practice 2006 , 1		11
95	A Laboratory Investigation of the Suspension, Transport, and Settling of Silver Carp Eggs Using Synthetic Surrogates. <i>PLoS ONE</i> , 2015 , 10, e0145775	3.7	10

94	Friction coefficient for oscillatory flow: the rough-smooth turbulent transition. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009 , 47, 438-444	1.9	10
93	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	1.8	10
92	Development of a Rapid Response Riverine Oil Particle Aggregate Formation, Transport, and Fate Model. <i>Journal of Environmental Engineering, ASCE</i> , 2018 , 144, 04018125	2	10
91	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	0.7	8
90	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	3.7	8
89	Gravity currents down a slope in deceleration phase. <i>Dynamics of Atmospheres and Oceans</i> , 2010 , 49, 75-82	1.9	8
88	Scour and burial mechanics of conical frustums on a sandy bed under combined flow conditions. <i>Ocean Engineering</i> , 2011 , 38, 1256-1268	3.9	8
87	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, 478-88	10.3	7
86	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	1.9	7
85	Modulation of the flow structure by progressive bedforms in the Kinoshita meandering channel. <i>Earth Surface Processes and Landforms</i> , 2013 , 38, n/a-n/a	3.7	7
84	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	1.9	7
83	Closure to Turbulence Measurements with Acoustic Doppler Velocimeters by Carlos M. Garca, Mariano I. Cantero, Yarko Nia, and Marcelo H. Garca. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 1289-1292	1.8	7
82	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	2.1	6
81	Evolucin temporal de las sequas hidrolgicas en Argentina y su relacin con indicadores macroclimticos. <i>Tecnologa Y Ciencias Del Agua</i> , 2018 , 9, 01-32	0.9	6
80	Nonlinear Distribution of Sediment at River Diversions: Brief History of the Bulle Effect and Its Implications. <i>Journal of Hydraulic Engineering</i> , 2018 , 144, 03118001	1.8	5
79	PIV experiments in rough-wall, laminar-to-turbulent, oscillatory boundary-layer flows. <i>Experiments in Fluids</i> , 2014 , 55, 1	2.5	5
78	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	1.8	5
77	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	3.8	5

76	WaveAR: A software tool for calculating parameters for water waves with incident and reflected components. <i>Computers and Geosciences</i> , 2012 , 46, 38-43	4.5	5
75	Conceptual and Mathematical Model for Evolution of Meandering Rivers in Naturalization Processes 2004 , 1		5
74	Studies of Mass-Movement Processes on Submarine Slopes. <i>Oceanography</i> , 1996 , 9, 168-172	2.3	5
73	Coherent structures in oscillatory flows within the laminar-to-turbulent transition regime for smooth and rough walls. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016 , 54, 502-515	1.9	4
72	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	1.8	4
71	Sedimentation Hazards 2008 , 885-936		4
70	Numerical Simulation of Local Scour with Free Surface and Automatic Mesh Deformation 2006 , 1		4
69	Naturalization of Urban Streams Using In-Channel Structures 2000 , 1		4
68	An Efficient Finite-Volume Scheme for Modeling Water Hammer Flows. <i>Journal of Water Management Modeling</i> , 2007 ,		4
67	On the near-wall effects induced by an axial-flow rotor. <i>Renewable Energy</i> , 2016 , 91, 524-530	8.1	4
66	Hydraulic resistance in mixed bedrock-alluvial meandering channels. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021 , 59, 298-313	1.9	4
65	Reducing the Flood Risk of Art Cities: The Case of Florence. <i>Journal of Hydraulic Engineering</i> , 2020 , 146, 02520001	1.8	3
64	HydroSedFoam: A new parallelized two-dimensional hydrodynamic, sediment transport, and bed morphology model. <i>Computers and Geosciences</i> , 2018 , 120, 32-39	4.5	3
63	Upper Mississippi River Flow and Sediment Characteristics and Their Effect on a Harbor Siltation Case. <i>Journal of Hydraulic Engineering</i> , 2018 , 144, 04018066	1.8	3
62	Erosion of glacial till from the St. Clair River (Great Lakes basin). <i>Journal of Great Lakes Research</i> , 2011 , 37, 399-399	3	3
61	Two-Dimensional BOD and DO Water Quality Model for Engineering Applications: The Case of Bubbly Creek in Chicago, Illinois 2009 ,		3
60	Analysis of plunging phenomena. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009 , 47, 638-642	1.9	3
59	Prediction of Margin Stratigraphy 459-529		3

58	Erosion of Finite Thickness Sediment Beds by Single and Multiple Circular Jets. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 495-507	1.8	3
57	Burial of Short Cylinders Induced by Scour and Bedforms under Waves plus Currents 2005 , 1		3
56	Large Eddy Simulation (LES) of flow and bedload transport at an idealized 90-degree diversion: Insight into Bulle-Effect 2016 ,		3
55	Illinois Transient Model: Simulating the Flow Dynamics in Combined Storm Sewer Systems. <i>Journal of Water Management Modeling</i> , 2011 ,		3
54	A well-balanced and positivity-preserving SPH method for shallow water flows in open channels. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> ,1-14	1.9	3
53	Analytical Lagrangian Model of Sediment Oxygen Demand and Reaeration Flux Coevolution in Streams. <i>Journal of Environmental Engineering, ASCE</i> , 2016 , 142, 04016028	2	3
52	Nonlinear Bedload Transport Trajectory Angle Expressed in a Traditional Form: Derivation and Application. <i>Journal of Hydraulic Engineering</i> , 2019 , 145, 04019028	1.8	2
51	Innovative framework to simulate the fate and transport of nonconservative constituents in urban combined sewer catchments. <i>Water Resources Research</i> , 2016 , 52, 9164-9181	5.4	2
50	Visualization of the Bulle-Effect at River Bifurcations 2018 ,		2
49	Input-variable sensitivity assessment for sediment transport relations. <i>Water Resources Research</i> , 2017 , 53, 8105-8119	5.4	2
48	Computational Fluid Dynamics (CFD) Modeling of Flow into the Aerated Grit Chamber of the MWRD's North Side Water Reclamation Plant, Illinois 2010 ,		2
47	CFD Modeling Optimizes the Design of Primary Settling Tanks at MWRDGC's Calumet Water Reclamation Plant. <i>Proceedings of the Water Environment Federation</i> , 2008 , 2008, 1698-1713		2
46	Mean Flow and Turbulence Characteristics in Pool-Riffle Structures 2002 , 1		2
45	Physical Habitat Analysis and Design of In-Channel Structures on a Chicago, IL Urban Drainage: A Stream Naturalization Design Process 2002 , 1		2
44	Mean flow structure and velocityBed shear stress maxima phase difference in smooth wall, transitionally turbulent oscillatory boundary layers: direct numerical simulations. <i>Journal of Fluid Mechanics</i> , 2021 , 928,	3.7	2
43	Relationship of point bar morphology to channel curvature and planform evolution. <i>Geomorphology</i> , 2021 , 375, 107541	4.3	2
42	Improved understanding of combined sewer systems using the Illinois Conveyance Analysis Program (ICAP). <i>Urban Water Journal</i> , 2017 , 14, 811-819	2.3	1
41	Unstable flow structure around partially buried objects on a simulated river bed. <i>Journal of Hydroinformatics</i> , 2017 , 19, 31-46	2.6	1

40	Discussion of Evaluation of Sediment Diversion Design Attributes and Their Impact on the Capture Efficiency by Ahmed Gaweesh and Ehab Meselhe. <i>Journal of Hydraulic Engineering</i> , 2018 , 144, 07018007	1.8	1
39	Modelling deltaic progradation constrained by a moving sediment source. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2013 , 51, 284-292	1.9	1
38	Energy Dissipative Plunging Flows. <i>Journal of Hydraulic Engineering</i> , 2010 , 136, 519-523	1.8	1
37	Experimental Investigation of a Vortex-Flow Restrictor: Rain-Blocker Performance Tests. <i>Journal of Hydraulic Engineering</i> , 2010 , 136, 528-533	1.8	1
36	Flow Dynamics in Combined Storm-Sewer Systems: Application of the Illinois Transient Model (ITM) to the Calumet TARP System in Chicago, Illinois 2010 ,		1
35	Buoyancy-Driven Flow in a Two-Story Compartment. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 738-742	2.4	1
34	A Robust and Fast Model for Simulating Street Flooding 2009 ,		1
33	Boundary Conditions for Simulating Complex Storm-Sewer Systems in Free Surface, Pressurized, and Mixed Flow Conditions 2009 ,		1
32	Stability of a Pair of Counterrotating and Corotating Vortices of Different Strengths. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 591-595	2.4	1
31	Optimal Design of the Chicago Calumet Water Reclamation Plant (CCWRP) Primary Settling Tanks with 3D Numerical Models 2008 ,		1
30	Bathymetric Evolution of a Sandy Bed under Transient Progressive Waves 2007 ,		1
29	Closure to Hydraulic Design of Large-Diameter Pipes by Fabi A. Bombardelli and Marcelo H. Garcia. <i>Journal of Hydraulic Engineering</i> , 2005 , 131, 224-225	1.8	1
28	Exploratory Study of Oscillatory Flow over a Movable Sediment Bed with Particle-Image-Velocimetry (PIV) 2002 , 1		1
27	Velocity and Sediment Concentration Measurements over Bedforms in Sand-Bed Rivers 2002 , 1		1
26	In-Situ Measurements of Sediment Oxygen Demand by Suspended Biosolids 2002 , 1		1
25	Experimental comparison of initiation of motion for submerged objects resting on fixed permeable and impermeable beds. <i>Physical Review Fluids</i> , 2019 , 4,	2.8	1
24	Numerical modeling of sediment traps after the 2010 Kalamazoo River oil spill, Michigan, USA 2016 ,		1
23	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	6	1

22	Hydraulics 2007 , 959-1042		1
21	Finite Element Simulation of Turbidity Current with Internal Hydraulic Jump. <i>Water Science and Technology Library</i> , 1994 , 1283-1290	0.3	1
20	pyRiverBed: A Python framework to generate synthetic riverbed topography for constant-width meandering rivers. <i>Computers and Geosciences</i> , 2021 , 152, 104755	4.5	1
19	Mean flow structure and velocityBed shear stress maxima phase difference in smooth wall, transitionally turbulent oscillatory boundary layers: experimental observations. <i>Journal of Fluid Mechanics</i> , 2021 , 922,	3.7	1
18	Using Lagrangian particle saltation observations for bedload sediment transport modelling 1998 , 12, 1197		1
17	On the impact of journal papers: The Muskingum-Cunge flood-routing method. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2003 , 41, 563-563	1.9	0
16	The role of dunes in flow resistance in a large and a small river. The case of the Paraná and Tercero rivers, Argentina. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 1-19	1.9	0
15	Travertine crystal growth ripples record the hydraulic history of ancient Rome's Anio Novus aqueduct.. <i>Scientific Reports</i> , 2022 , 12, 1239	4.9	0
14	Impact of Lake Michigan water level rise on complex bidirectional flow in the Chicago Area Waterway System (CAWS). <i>Journal of Great Lakes Research</i> , 2021 , 47, 1626-1626	3	0
13	Entrainment, Transport, and Fate of Sediments during Storm Events in Urban Canals and Rivers: Case Study on Bubbly Creek, Chicago. <i>Journal of Hydraulic Engineering</i> , 2021 , 147, 05021005	1.8	0
12	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	1.9	
11	Meandering Instability of a Vertical Plume. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 111-114	2.4	
10	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	1.7	
9	Effect of Particle Inertia in Particulate Density Currents 2006 , 393-402		
8	Characterizing a December 2005 Density Current Event in the Chicago River, Chicago, Illinois 2006 , 1		
7	Prediction of the Behavior of Hydraulic Jumps in Canoe Chutes 2000 , 1		
6	Building up on the Legacy of Vito Vanoni: Volume 2 of Manual 54 "Sedimentation Engineering" 2000 , 1		
5	Alluvial Resistance and Sediment Transport for Flows over Dunes 2000 , 1		

4 Bank Erosion in Meandering Rivers **2000**, 1

3 Sedimentation in Vegetated Rivers **1998**, 937

2 Arbitrary Lagrangian-Eulerian Approach for Finite Element Modeling of Two-dimensional Turbidity Currents. *Water International*, **1996**, 21, 175-182 2.4

1 A sediment journey through the Bermejo River of Argentina and Bolivia: From debris flows to meandering, ending in washload **2014**, 17-18