

Marcelo H Garcia

List of Publications by Year in Descending Order

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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 | 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 |
| 218 | 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 |
| 217 | 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 |
| 216 | 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 |
| 215 | 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 |
| 214 | Hydraulic resistance in mixed bedrock-alluvial meandering channels. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021 , 59, 298-313 | 1.9 | 4 |
| 213 | Relationship of point bar morphology to channel curvature and planform evolution. <i>Geomorphology</i> , 2021 , 375, 107541 | 4.3 | 2 |
| 212 | 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 |
| 211 | 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 |
| 210 | Reducing the Flood Risk of Art Cities: The Case of Florence. <i>Journal of Hydraulic Engineering</i> , 2020 , 146, 02520001 | 1.8 | 3 |
| 209 | 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 |
| 208 | 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 |
| 207 | Modeling the transport of oilParticle aggregates resulting from an oil spill in a freshwater environment. <i>Environmental Fluid Mechanics</i> , 2018 , 18, 967-984 | 2.2 | 24 |
| 206 | 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 |
| 205 | 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 |
| 204 | Visualization of the Bulle-Effect at River Bifurcations 2018 , | | 2 |
| 203 | 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 |

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| 202 | 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 |
| 201 | Evoluci3n temporal de las sequi3as hidrol3gicas en Argentina y su relaci3n con indicadores macroclim3ticos. <i>Tecnologia Y Ciencias Del Agua</i> , 2018 , 9, 01-32 | 0.9 | 6 |
| 200 | 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 |
| 199 | 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 |
| 198 | Innovative modeling framework for combined sewer overflows prediction. <i>Urban Water Journal</i> , 2017 , 14, 97-111 | 2.3 | 18 |
| 197 | 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 |
| 196 | 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 |
| 195 | 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 |
| 194 | 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 | 3.7 | 21 |
| 193 | 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 |
| 192 | Hydraulic Evaluation of the Design and Operation of Ancient Rome's Anio Novus Aqueduct. <i>Archaeometry</i> , 2017 , 59, 1150-1174 | 1.6 | 12 |
| 191 | Unstable flow structure around partially buried objects on a simulated river bed. <i>Journal of Hydroinformatics</i> , 2017 , 19, 31-46 | 2.6 | 1 |
| 190 | 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 |
| 189 | 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 |
| 188 | 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 |
| 187 | Input-variable sensitivity assessment for sediment transport relations. <i>Water Resources Research</i> , 2017 , 53, 8105-8119 | 5.4 | 2 |
| 186 | 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 |
| 185 | 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 |

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| 184 | 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 |
| 183 | Integrated urban hydrologic and hydraulic modelling in Chicago, Illinois. <i>Environmental Modelling and Software</i> , 2016 , 77, 63-70 | 5.2 | 31 |
| 182 | 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 |
| 181 | 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 |
| 180 | Large Eddy Simulation (LES) of flow and bedload transport at an idealized 90-degree diversion: Insight into Bulle-Effect 2016 , | | 3 |
| 179 | Numerical modeling of sediment traps after the 2010 Kalamazoo River oil spill, Michigan, USA 2016 , | | 1 |
| 178 | On the near-wall effects induced by an axial-flow rotor. <i>Renewable Energy</i> , 2016 , 91, 524-530 | 8.1 | 4 |
| 177 | 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 |
| 176 | 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 |
| 175 | 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 |
| 174 | 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 |
| 173 | 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 |
| 172 | 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 |
| 171 | PIV experiments in rough-wall, laminar-to-turbulent, oscillatory boundary-layer flows. <i>Experiments in Fluids</i> , 2014 , 55, 1 | 2.5 | 5 |
| 170 | Assessment of floodplain vulnerability during extreme Mississippi River flood 2011. <i>Environmental Science & Technology</i> , 2014 , 48, 2619-25 | 10.3 | 33 |
| 169 | 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 |
| 168 | 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 |
| 167 | A New Phase Diagram for Combined-Flow Bedforms. <i>Journal of Sedimentary Research</i> , 2014 , 84, 301-313 | 2.1 | 39 |

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| 166 | 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 |
| 165 | A unified model for bedform development and equilibrium under unidirectional, oscillatory and combined-flows. <i>Sedimentology</i> , 2014 , 61, 2063-2085 | 3.3 | 33 |
| 164 | A sediment journey through the Bermejo River of Argentina and Bolivia: From debris flows to meandering, ending in washload 2014 , 17-18 | | |
| 163 | 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 |
| 162 | Three-dimensional flow in centered pool-riffle sequences. <i>Water Resources Research</i> , 2013 , 49, 202-215 | 5.4 | 14 |
| 161 | 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 |
| 160 | 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 |
| 159 | A Three-Dimensional Water Quality Model of Chicago Area Waterway System (CAWS). <i>Environmental Modeling and Assessment</i> , 2013 , 18, 567-592 | 2 | 15 |
| 158 | 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 |
| 157 | Three-dimensional hydrodynamic modeling of the Chicago River, Illinois. <i>Environmental Fluid Mechanics</i> , 2012 , 12, 471-494 | 2.2 | 22 |
| 156 | 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 |
| 155 | A simplified 2D model for meander migration with physically-based bank evolution. <i>Geomorphology</i> , 2012 , 163-164, 10-25 | 4.3 | 98 |
| 154 | Acoustic measurement of suspended sediment concentration profiles in an oscillatory boundary layer. <i>Continental Shelf Research</i> , 2012 , 46, 87-95 | 2.4 | 15 |
| 153 | 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 |
| 152 | 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 |
| 151 | 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 |
| 150 | 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 |
| 149 | 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 |

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| 148 | 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 |
| 147 | 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 |
| 146 | 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 |
| 145 | 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 |
| 144 | Illinois Transient Model: Simulating the Flow Dynamics in Combined Storm Sewer Systems. <i>Journal of Water Management Modeling</i> , 2011 , | | 3 |
| 143 | Bedload transport and bed resistance associated with density and turbidity currents. <i>Sedimentology</i> , 2010 , 57, 1463-1490 | 3.3 | 37 |
| 142 | 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 |
| 141 | Energy Dissipative Plunging Flows. <i>Journal of Hydraulic Engineering</i> , 2010 , 136, 519-523 | 1.8 | 1 |
| 140 | Experimental Investigation of a Vortex-Flow Restrictor: Rain-Blocker Performance Tests. <i>Journal of Hydraulic Engineering</i> , 2010 , 136, 528-533 | 1.8 | 1 |
| 139 | Flow Dynamics in Combined Storm-Sewer Systems: Application of the Illinois Transient Model (ITM) to the Calumet TARP System in Chicago, Illinois 2010 , | | 1 |
| 138 | Computational Fluid Dynamics (CFD) Modeling of Flow into the Aerated Grit Chamber of the MWRD's North Side Water Reclamation Plant, Illinois 2010 , | | 2 |
| 137 | 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 |
| 136 | Gravity currents down a slope in deceleration phase. <i>Dynamics of Atmospheres and Oceans</i> , 2010 , 49, 75-82 | 1.9 | 8 |
| 135 | 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 |
| 134 | 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 |
| 133 | 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 | |
| 132 | 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 |
| 131 | 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 |

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| 130 | Buoyancy-Driven Flow in a Two-Story Compartment. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 738-742 | 2.4 | 1 |
| 129 | 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 |
| 128 | A Robust and Fast Model for Simulating Street Flooding 2009 , | | 1 |
| 127 | Boundary Conditions for Simulating Complex Storm-Sewer Systems in Free Surface, Pressurized, and Mixed Flow Conditions 2009 , | | 1 |
| 126 | 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 |
| 125 | Meandering Instability of a Vertical Plume. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 111-114 | 2.4 | |
| 124 | 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 |
| 123 | Combined PIV/PLIF measurements of a steady density current front. <i>Experiments in Fluids</i> , 2009 , 46, 265-276 | 2.3 | 22 |
| 122 | Characterization of bedform morphology generated under combined flows and currents using wavelet analysis. <i>Ocean Engineering</i> , 2009 , 36, 617-632 | 3.9 | 19 |
| 121 | Laboratory experiments on the formation of subaqueous depositional gullies by turbidity currents. <i>Marine Geology</i> , 2009 , 258, 48-59 | 3.3 | 22 |
| 120 | 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 |
| 119 | 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 |
| 118 | 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 |
| 117 | Experimental study on self-accelerating turbidity currents. <i>Journal of Geophysical Research</i> , 2009 , 114, | | 67 |
| 116 | Modeling turbidity currents with nonuniform sediment and reverse buoyancy. <i>Water Resources Research</i> , 2009 , 45, | 5.4 | 17 |
| 115 | Two-Dimensional BOD and DO Water Quality Model for Engineering Applications: The Case of Bubbly Creek in Chicago, Illinois 2009 , | | 3 |
| 114 | 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 |
| 113 | Analysis of plunging phenomena. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009 , 47, 638-642 | 1.9 | 3 |

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| 112 | 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 |
| 111 | Effect of particle inertia on the dynamics of depositional particulate density currents. <i>Computers and Geosciences</i> , 2008 , 34, 1307-1318 | 4.5 | 32 |
| 110 | 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 |
| 109 | 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 |
| 108 | Sediment Transport and Morphodynamics 2008 , 21-163 | | 145 |
| 107 | Sedimentation Hazards 2008 , 885-936 | | 4 |
| 106 | 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 |
| 105 | Turbulent structures in planar gravity currents and their influence on the flow dynamics. <i>Journal of Geophysical Research</i> , 2008 , 113, | | 78 |
| 104 | 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 |
| 103 | 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 |
| 102 | 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 |
| 101 | Closure to Burial of Short Cylinders Induced by Scour under Combined Waves and Currents by Yovanni A. Catañ-Lopera and Marcelo H. García. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2008 , 134, 262-264 | 1.7 | |
| 100 | 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 |
| 99 | Optimal Design of the Chicago Calumet Water Reclamation Plant (CCWRP) Primary Settling Tanks with 3D Numerical Models 2008 , | | 1 |
| 98 | 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 |
| 97 | Inexpensive fluorescent particles for large-scale experiments using particle image velocimetry. <i>Experiments in Fluids</i> , 2008 , 45, 183-186 | 2.5 | 40 |
| 96 | 2D stream hydrodynamic, sediment transport and bed morphology model for engineering applications. <i>Hydrological Processes</i> , 2008 , 22, 1443-1459 | 3.3 | 45 |
| 95 | 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 |

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| 94 | 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 |
| 93 | 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 |
| 92 | High-resolution simulations of cylindrical density currents. <i>Journal of Fluid Mechanics</i> , 2007 , 590, 437-469. | 3.7 | 69 |
| 91 | On the front velocity of gravity currents. <i>Journal of Fluid Mechanics</i> , 2007 , 586, 1-39 | 3.7 | 171 |
| 90 | 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 |
| 89 | 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 |
| 88 | Closure to Turbulence Measurements with Acoustic Doppler Velocimeters by Carlos M. Garc a, Mariano I. Cantero, Yarko Ni u, and Marcelo H. Garc a. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 1289-1292 | 1.8 | 7 |
| 87 | ADCP Measurements of Gravity Currents in the Chicago River, Illinois. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 1356-1366 | 1.8 | 18 |
| 86 | Errors in Acoustic Doppler Profiler Velocity Measurements Caused by Flow Disturbance. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 1411-1420 | 1.8 | 35 |
| 85 | Bathymetric Evolution of a Sandy Bed under Transient Progressive Waves 2007 , | | 1 |
| 84 | 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 |
| 83 | An Efficient Finite-Volume Scheme for Modeling Water Hammer Flows. <i>Journal of Water Management Modeling</i> , 2007 , | | 4 |
| 82 | Hydraulics 2007 , 959-1042 | | 1 |
| 81 | RVR Meander: A toolbox for re-meandering of channelized streams. <i>Computers and Geosciences</i> , 2006 , 32, 92-101 | 4.5 | 46 |
| 80 | Numerical Simulation of Local Scour with Free Surface and Automatic Mesh Deformation 2006 , 1 | | 4 |
| 79 | Direct Numerical Simulations of Planar and Cylindrical Density Currents. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2006 , 73, 923-930 | 2.7 | 55 |
| 78 | 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 |
| 77 | 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 |

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|----|---|-----|-----|
| 76 | Effect of Particle Inertia in Particulate Density Currents 2006 , 393-402 | | |
| 75 | Godunov-Type Solutions for Transient Flows in Sewers. <i>Journal of Hydraulic Engineering</i> , 2006 , 132, 800-813 | | 36 |
| 74 | Vortex trajectory hysteresis above self-formed vortex ripples. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006 , 44, 437-450 | 1.9 | 16 |
| 73 | 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 |
| 72 | Noise-resolution trade-off in projection algorithms for laser diffraction particle sizing. <i>Applied Optics</i> , 2006 , 45, 3620-8 | 1.7 | 17 |
| 71 | Characterizing a December 2005 Density Current Event in the Chicago River, Chicago, Illinois 2006 , 1 | | |
| 70 | 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 |
| 69 | Geometry and migration characteristics of bedforms under waves and currents. <i>Coastal Engineering</i> , 2006 , 53, 781-792 | 4.8 | 20 |
| 68 | ASCE Manual of Practice 110 Sedimentation Engineering: Processes, Measurements, Modeling and Practice 2006 , 1 | | 11 |
| 67 | Confidence intervals in the determination of turbulence parameters. <i>Experiments in Fluids</i> , 2006 , 40, 514-522 | 2.5 | 53 |
| 66 | Characterization of flow turbulence in large-scale bubble-plume experiments. <i>Experiments in Fluids</i> , 2006 , 41, 91-101 | 2.5 | 30 |
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