

Subhasish Dey

List of Publications by Citations

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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.

213
papers

3,807
citations

34
h-index

51
g-index

225
ext. papers

4,427
ext. citations

2.2
avg, IF

6.23
L-index

#	Paper	IF	Citations
213	Clear Water Scour at Circular Piers: a Model. <i>Journal of Hydraulic Engineering</i> , 1995 , 121, 869-876	1.8	149
212	Fluvial Hydrodynamics. <i>GeoPlanet: Earth and Planetary Sciences</i> , 2014 ,	0.1	148
211	Characteristics of Horseshoe Vortex in Developing Scour Holes at Piers. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 399-413	1.8	128
210	Sediment threshold. <i>Applied Mathematical Modelling</i> , 1999 , 23, 399-417	4.5	106
209	Scour Downstream of an Apron Due to Submerged Horizontal Jets. <i>Journal of Hydraulic Engineering</i> , 2006 , 132, 246-257	1.8	87
208	Near-Bed Turbulence Characteristics at the Entrainment Threshold of Sediment Beds. <i>Journal of Hydraulic Engineering</i> , 2011 , 137, 945-958	1.8	84
207	Turbulence in mobile-bed streams. <i>Acta Geophysica</i> , 2012 , 60, 1547-1588	2.2	82
206	Time Variation of Scour at Abutments. <i>Journal of Hydraulic Engineering</i> , 2005 , 131, 11-23	1.8	76
205	Characteristics of Loose Rough Boundary Streams at Near-Threshold. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 288-304	1.8	72
204	Gravel-Bed Hydrodynamics: Double-Averaging Approach. <i>Journal of Hydraulic Engineering</i> , 2012 , 138, 707-725	1.8	67
203	Non-universality of von K \ddot{a} rm \ddot{a} n's τ in fluvial streams. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2010 , 48, 658-663	1.9	64
202	Flow-altering countermeasures against scour at bridge piers: a review. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2010 , 48, 441-452	1.9	60
201	Scour in Long Contractions. <i>Journal of Hydraulic Engineering</i> , 2005 , 131, 1036-1049	1.8	58
200	Sediment threshold under stream flow: A state-of-the-art review. <i>KSCE Journal of Civil Engineering</i> , 2008 , 12, 45-60	1.9	54
199	Local scour at abutments: A review. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2004 , 29, 449-476	1	52
198	Response of velocity and turbulence in submerged wall jets to abrupt changes from smooth to rough beds and its application to scour downstream of an apron. <i>Journal of Fluid Mechanics</i> , 2006 , 556, 387	3.7	48
197	Threshold of sediment motion on combined transverse and longitudinal sloping beds. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2003 , 41, 405-415	1.9	47

196	Influence of bank vegetation and gravel bed on velocity and Reynolds stress distributions. <i>International Journal of Sediment Research</i> , 2009 , 24, 236-246	3	45
195	Control of Scour at Vertical Circular Piles under Waves and Current. <i>Journal of Hydraulic Engineering</i> , 2006 , 132, 270-279	1.8	45
194	Hydrodynamics of sediment threshold. <i>Physics of Fluids</i> , 2016 , 28, 075103	4.4	44
193	Turbulence Characteristics in Flows Subjected to Boundary Injection and Suction. <i>Journal of Engineering Mechanics - ASCE</i> , 2010 , 136, 877-888	2.4	43
192	Scour at Submerged Cylindrical Obstacles under Steady Flow. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 105-109	1.8	43
191	Characteristics of Turbulent Flow in Submerged Jumps on Rough Beds. <i>Journal of Engineering Mechanics - ASCE</i> , 2008 , 134, 49-59	2.4	43
190	Hydraulics of Submerged Jet Subject to Change in Cohesive Bed Geometry. <i>Journal of Hydraulic Engineering</i> , 2003 , 129, 44-53	1.8	43
189	Flow Field at a Vertical-Wall Abutment. <i>Journal of Hydraulic Engineering</i> , 2005 , 131, 1126-1135	1.8	43
188	Flow Characteristics around a Circular Cylinder Placed Horizontally above a Plane Boundary. <i>Journal of Engineering Mechanics - ASCE</i> , 2009 , 135, 697-716	2.4	41
187	Influence of permeable beds on hydraulically macro-rough flow. <i>Journal of Fluid Mechanics</i> , 2018 , 847, 552-590	3.7	40
186	Review Article: Advances in modeling of bed particle entrainment sheared by turbulent flow. <i>Physics of Fluids</i> , 2018 , 30, 061301	4.4	39
185	Double-averaging turbulence characteristics in flows over a gravel bed. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2010 , 48, 801-809	1.9	38
184	Wall-Wake Flows Downstream of a Sphere Placed on a Plane Rough Wall. <i>Journal of Hydraulic Engineering</i> , 2011 , 137, 1173-1189	1.8	37
183	Clear-Water Scour below Underwater Pipelines under Steady Flow. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 588-600	1.8	37
182	Curvilinear Flow Profiles Based on Reynolds Averaging. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 1074-1079	1.8	37
181	Origin of the scaling laws of sediment transport. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017 , 473, 20160785	2.4	35
180	Influence of Streamwise Bed Slope on Sediment Threshold under Stream Flow. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2000 , 126, 255-263	1.1	34
179	Velocity and turbulence in a scour hole at a vertical-wall abutment. <i>Flow Measurement and Instrumentation</i> , 2006 , 17, 13-21	2.2	33

178	Sediment Pickup on Streamwise Sloping Beds. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2001 , 127, 39-43	1.1	33
177	End Depth in Circular Channels. <i>Journal of Hydraulic Engineering</i> , 1998 , 124, 856-863	1.8	33
176	Sediment Threshold under Stream Flow on Horizontal and Sloping Beds. <i>Journal of Engineering Mechanics - ASCE</i> , 1999 , 125, 545-553	2.4	32
175	Sediment Entrainment Probability and Threshold of Sediment Suspension: Exponential-Based Approach. <i>Journal of Hydraulic Engineering</i> , 2013 , 139, 1099-1106	1.8	30
174	Reynolds averaged theory of turbulent shear flows over undulating beds and formation of sand waves. <i>Physical Review E</i> , 2009 , 80, 036304	2.4	30
173	Reynolds Stress and Bed Shear in Nonuniform Unsteady Open-Channel Flow. <i>Journal of Hydraulic Engineering</i> , 2005 , 131, 610-614	1.8	30
172	Scour below a High Vertical Drop. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 564-568	1.8	28
171	Terminal fall velocity: the legacy of Stokes from the perspective of fluvial hydraulics. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20190277	2.4	27
170	Clear-Water Scour at Abutments in Thinly Armored Beds. <i>Journal of Hydraulic Engineering</i> , 2004 , 130, 622-634	1.8	27
169	Nonhydrostatic Dam Break Flows. I: Physical Equations and Numerical Schemes. <i>Journal of Hydraulic Engineering</i> , 2016 , 142, 04016068	1.8	27
168	Clear-water scour depth below underwater pipelines. <i>Journal of Hydro-Environment Research</i> , 2007 , 1, 157-162	2.3	26
167	3D flow field in a scour hole at a wing-wall abutment. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006 , 44, 33-50	1.9	26
166	Characteristics of Submerged Jets in Evolving Scour Hole Downstream of an Apron. <i>Journal of Engineering Mechanics - ASCE</i> , 2008 , 134, 927-936	2.4	25
165	Hydrodynamics of water-worked and screeded gravel beds: A comparative study. <i>Physics of Fluids</i> , 2018 , 30, 085105	4.4	23
164	Hydrodynamics of submerged turbulent plane offset jets. <i>Physics of Fluids</i> , 2017 , 29, 065112	4.4	23
163	Temporal Scales for Live-Bed Scour at Abutments. <i>Journal of Hydraulic Engineering</i> , 2010 , 136, 395-402	1.8	23
162	Clear-Water Scour at Piers in Sand Beds with an Armor Layer of Gravels. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 703-711	1.8	23
161	Turbulent flow field in a scour hole at a semicircular abutment. <i>Canadian Journal of Civil Engineering</i> , 2005 , 32, 213-232	1.3	23

160	Sediment Threshold with Upward Seepage. <i>Journal of Engineering Mechanics - ASCE</i> , 2004 , 130, 1118-1123	3.4	23
159	Turbulence laws in natural bed flows. <i>Journal of Fluid Mechanics</i> , 2016 , 798, 540-571	3.7	22
158	Moraine dam breach and glacial lake outburst flood generation by physical and numerical models. <i>Journal of Hydrology</i> , 2018 , 563, 694-710	6	22
157	Interference of an upstream pier on local scour at downstream piers. <i>Acta Geophysica</i> , 2017 , 65, 29-46	2.2	21
156	Impact of phenomenological theory of turbulence on pragmatic approach to fluvial hydraulics. <i>Physics of Fluids</i> , 2018 , 30, 045105	4.4	21
155	Kinematics of horseshoe vortex development in an evolving scour hole at a square cylinder. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2008 , 46, 247-264	1.9	21
154	Incipient Motion of Bivalve Shells on Sand Beds under Flowing Water. <i>Journal of Engineering Mechanics - ASCE</i> , 2003 , 129, 232-240	2.4	21
153	Bed sediment entrainment by streamflow: State of the science. <i>Sedimentology</i> , 2019 , 66, 1449-1485	3.3	21
152	Turbulence in a Gravel-Bed Stream with an Array of Large Gravel Obstacles. <i>Journal of Hydraulic Engineering</i> , 2016 , 142, 04016052	1.8	20
151	Submerged wall jets subjected to injection and suction from the wall. <i>Journal of Fluid Mechanics</i> , 2010 , 653, 57-97	3.7	20
150	Characteristics of Steady Horseshoe Vortex System near Junction of Square Cylinder and Base Plate. <i>Journal of Engineering Mechanics - ASCE</i> , 2008 , 134, 184-197	2.4	20
149	EDR in Circular Channels. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2001 , 127, 110-112	1.1	19
148	Stochastic mechanics of loose boundary particle transport in turbulent flow. <i>Physics of Fluids</i> , 2017 , 29, 055103	4.4	18
147	Universal probability distributions of turbulence in open channel flows. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2010 , 48, 388-394	1.9	18
146	Clear-water scour at bridge piers in fine and medium gravel beds. <i>Canadian Journal of Civil Engineering</i> , 2005 , 32, 775-781	1.3	18
145	Three-dimensional vortex flow field around a circular cylinder in a quasi-equilibrium scour hole. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 1995 , 20, 871-885	1	18
144	Bed shear in equilibrium scour around a circular cylinder embedded in a loose bed. <i>Applied Mathematical Modelling</i> , 1994 , 18, 265-273	4.5	18
143	Mechanics of Sediment Transport: Particle Scale of Entrainment to Continuum Scale of Bedload Flux. <i>Journal of Engineering Mechanics - ASCE</i> , 2017 , 143, 04017127	2.4	17

142	Double-averaging turbulence characteristics in seeping rough-bed streams. <i>Journal of Geophysical Research</i> , 2011 , 116,		17
141	Influence of decelerating flow on incipient motion of a gravel-bed stream. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2007 , 32, 545-559	1	17
140	Effect of Upward Seepage on Scour and Flow Downstream of an Apron due to Submerged Jets. <i>Journal of Hydraulic Engineering</i> , 2007 , 133, 59-69	1.8	17
139	Bank Profile of Threshold Channels: A Simplified Approach. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2001 , 127, 184-187	1.1	17
138	Fluvial instabilities. <i>Physics of Fluids</i> , 2020 , 32, 061301	4.4	16
137	Hydrodynamics of flow over two-dimensional dunes. <i>Physics of Fluids</i> , 2020 , 32, 025106	4.4	16
136	Nonhydrostatic Dam Break Flows. II: One-Dimensional Depth-Averaged Modeling for Movable Bed Flows. <i>Journal of Hydraulic Engineering</i> , 2016 , 142, 04016069	1.8	16
135	Suspended load in flows on erodible bed. <i>International Journal of Sediment Research</i> , 2009 , 24, 315-324	3	16
134	Transport of biofilm-coated sediment particles. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016 , 54, 631-645	1.9	15
133	Scour at Vertical Piles in Sand-Clay Mixtures under Waves. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2011 , 137, 324-331	1.7	15
132	Reynolds Stress in Open Channel Flow with Upward Seepage. <i>Journal of Engineering Mechanics - ASCE</i> , 2005 , 131, 451-457	2.4	15
131	Sediment pick-up for evolving scour near circular cylinders. <i>Applied Mathematical Modelling</i> , 1996 , 20, 534-539	4.5	15
130	Understanding mass fluvial erosion along a bank profile: using PEEP technology for quantifying retreat lengths and identifying event timing. <i>Earth Surface Processes and Landforms</i> , 2017 , 42, 1717-1732	3.7	14
129	Measurement of turbulent flow field at a vertical semicircular cylinder attached to the sidewall of a rectangular channel. <i>Flow Measurement and Instrumentation</i> , 2004 , 15, 87-96	2.2	14
128	End depth in steeply sloping rough rectangular channels. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2000 , 25, 1-10	1	14
127	Spatially averaged dissipation rate in flows over water-worked and screeded gravel beds. <i>Physics of Fluids</i> , 2018 , 30, 125106	4.4	14
126	Near-bed turbulence structures in water-worked and screeded gravel-bed flows. <i>Physics of Fluids</i> , 2019 , 31, 045107	4.4	13
125	Hydrodynamic instability of meandering channels. <i>Physics of Fluids</i> , 2017 , 29, 125107	4.4	13

124	End depth computation in inverted semicircular channels using ANNs. <i>Flow Measurement and Instrumentation</i> , 2004 , 15, 285-293	2.2	13
123	Free Overfall in Inverted Semicircular Channels. <i>Journal of Hydraulic Engineering</i> , 2003 , 129, 438-447	1.8	13
122	Rui-Jin Zhang Research on Sediment Transport. <i>Journal of Hydraulic Engineering</i> , 2018 , 144, 02518002	1.8	12
121	Effects of Bed Compaction on Scour at Piers in Sand-Clay Mixtures. <i>Journal of Hydraulic Engineering</i> , 2013 , 139, 1013-1019	1.8	12
120	Revisiting the Energy-Momentum Method for Rating Vertical Sluice Gates under Submerged Flow Conditions. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2013 , 139, 325-335	1.1	12
119	Depth-averaged model for undular hydraulic jump. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015 , 53, 351-363	1.9	12
118	Is the von Kármán constant affected by sediment suspension?. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		12
117	Fully rough submerged plane wall-jets. <i>Journal of Hydro-Environment Research</i> , 2010 , 4, 301-316	2.3	12
116	Free Surface Profiles of Undular Hydraulic Jumps. <i>Journal of Hydraulic Engineering</i> , 2012 , 138, 362-366	1.8	12
115	Mechanics of advection of suspended particles in turbulent flow. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016 , 472, 20160749	2.4	12
114	Effects of biofilm on turbulence characteristics and the transport of fine sediment. <i>Journal of Soils and Sediments</i> , 2018 , 18, 3055-3069	3.4	12
113	Bedforms and Flow Resistance of Cohesive Beds with and without Biofilm Coating. <i>Journal of Hydraulic Engineering</i> , 2017 , 143, 06017010	1.8	11
112	Bed particle saltation in turbulent wall-shear flow: a review. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019 , 475, 20180824	2.4	11
111	Origin of the onset of meandering of a straight river. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2017 , 473, 20170376	2.4	11
110	No-Choke Flow in Trapezoidal Channels. <i>Journal of Engineering Mechanics - ASCE</i> , 1994 , 120, 2224-2231	2.4	11
109	Sediment Threshold. <i>GeoPlanet: Earth and Planetary Sciences</i> , 2014 , 189-259	0.1	11
108	Turbulent length scales and anisotropy downstream of a wall mounted sphere. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015 , 53, 649-658	1.9	10
107	Turbulence features in a wall-wake flow downstream of a wall-mounted vertical cylinder. <i>European Journal of Mechanics, B/Fluids</i> , 2018 , 69, 46-61	2.4	10

106	Sediment Transport on Arbitrary Slopes: Simplified Model. <i>Journal of Hydraulic Engineering</i> , 2010 , 136, 311-317	1.8	10
105	Theory of free surface flow over rough seeping beds. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007 , 463, 369-383	2.4	10
104	Overfall in U-Shaped Channels. <i>Journal of Engineering Mechanics - ASCE</i> , 2003 , 129, 358-362	2.4	10
103	Turbulent flow measurement by the ADV in the vicinity of a rectangular cross-section cylinder placed at a channel sidewall. <i>Flow Measurement and Instrumentation</i> , 2004 , 15, 221-237	2.2	10
102	Scour around Piers under Waves: Current Status of Research and Its Future Prospect. <i>Water (Switzerland)</i> , 2019 , 11, 2212	3	9
101	Local Scour and Riprap Stability at an Abutment in a Degrading Bed. <i>Journal of Hydraulic Engineering</i> , 2008 , 134, 1496-1502	1.8	9
100	Incipient motion of gravel and coal beds. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2002 , 27, 559-568	1	9
99	Turbulent Length Scales and Anisotropy in Submerged Turbulent Plane Offset Jets. <i>Journal of Hydraulic Engineering</i> , 2019 , 145, 04018085	1.8	9
98	Depth-averaged modelling of granular dike overtopping. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2018 , 56, 537-550	1.9	8
97	Instability Theory of Sand Ripples Formed by Turbulent Shear Flows. <i>Journal of Hydraulic Engineering</i> , 2012 , 138, 752-756	1.8	8
96	Power-law velocity profile in turbulent boundary layers: An integral reynolds-number dependent solution. <i>Acta Geophysica</i> , 2011 , 59, 993-1012	2.2	8
95	Secondary boundary layer and wall shear for fully developed flow in curved pipes. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2002 , 458, 283-298	2.4	8
94	Structure functions and invariants of the anisotropic Reynolds stress tensor in turbulent flows on water-worked gravel beds. <i>Physics of Fluids</i> , 2020 , 32, 055106	4.4	7
93	Analytical Solution of k- ϵ Model for Nonuniform Flows. <i>Journal of Hydraulic Engineering</i> , 2018 , 144, 04018033	1.8	7
92	Self-Similarity in Turbulent Wall-Wake Flow Downstream of a Wall-Mounted Vertical Cylinder. <i>Journal of Hydraulic Engineering</i> , 2018 , 144, 04018023	1.8	7
91	Velocity Deformation Model for Unsteady Open-Channel Flows over Smooth and Rough Beds. <i>Journal of Hydraulic Engineering</i> , 2013 , 139, 433-443	1.8	7
90	Splitter plate as a flow-altering pier scour countermeasure. <i>Acta Geophysica</i> , 2017 , 65, 957-975	2.2	7
89	Effects of relative submergence and bed slope on sediment incipient motion under decelerating flows. <i>Journal of Hydrology and Hydromechanics</i> , 2015 , 63, 295-302	2.1	7

88	Entrainment Threshold of Loose Boundary Streams. <i>GeoPlanet: Earth and Planetary Sciences</i> , 2011 , 29-48.	1	7
87	Computation of Reynolds and boundary shear stress in submerged jets on rough boundaries. <i>Journal of Hydro-Environment Research</i> , 2007 , 1, 110-117	2.3	7
86	Discharge prediction in compound channels by end depth method. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2006 , 44, 767-776	1.9	7
85	Distribution of suspended sediment concentration in wide sediment-laden streams: A novel power-law theory. <i>Sedimentology</i> , 2016 , 63, 1620-1633	3.3	7
84	Scour Downstream of Grade Control Structures under the Influence of Upward Seepage. <i>Acta Geophysica</i> , 2016 , 64, 694-710	2.2	7
83	Statistical characterization of unworked and water-worked gravel-bed roughness structures. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021 , 59, 420-436	1.9	7
82	Impact of Particle Shape on Saltating Mode of Bedload Transport Sheared by Turbulent Flow. <i>Journal of Hydraulic Engineering</i> , 2020 , 146, 04020034	1.8	6
81	Advances in analytical modeling of suspended sediment transport. <i>Journal of Hydro-Environment Research</i> , 2018 , 20, 110-126	2.3	6
80	Turbulence characteristics in wall-wake flows downstream of wall-mounted and near-wall horizontal cylinders. <i>Environmental Fluid Mechanics</i> , 2018 , 18, 891-921	2.2	6
79	Turbulence in Wall-Wake Flow Downstream of an Isolated Dunal Bedform. <i>Water (Switzerland)</i> , 2019 , 11, 1975	3	6
78	Choke-Free Flow in Circular Channels with Increase in Bed Elevations. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 1998 , 124, 317-320	1.1	6
77	Hydrodynamic instability of free river bars. <i>Physics of Fluids</i> , 2021 , 33, 045105	4.4	6
76	Instability of large-scale riverbed patterns. <i>Physics of Fluids</i> , 2021 , 33, 015109	4.4	6
75	Prediction of Overtopping Dike Failure: Sediment Transport and Dynamic Granular Bed Deformation Model. <i>Journal of Hydraulic Engineering</i> , 2019 , 145, 04019021	1.8	5
74	Theory of Turbulent Flow over a Wavy Boundary. <i>Journal of Hydraulic Engineering</i> , 2016 , 142, 04016006	1.8	5
73	Effect of seepage on scour due to submerged jets and resulting flow field. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2007 , 45, 357-364	1.9	5
72	Critical bed shear for initial movement of sediments on a combined lateral and longitudinal slope 2004 , 35, 153-164		5
71	Chebyshev Solution as Aid in Computing GVF by Standard Step Method. <i>Journal of Irrigation and Drainage Engineering - ASCE</i> , 2000 , 126, 271-274	1.1	5

70	Mega riverbed-patterns: linear and weakly nonlinear perspectives.. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2021 , 477, 20210331	2.4	5
69	Water-Worked Gravel Bed: State-of-the-Art Review. <i>Water (Switzerland)</i> , 2019 , 11, 694	3	4
68	Conditional spatially averaged turbulence and dispersion characteristics in flow over two-dimensional dunes. <i>Physics of Fluids</i> , 2020 , 32, 065106	4.4	4
67	Hydrodynamic analysis of fully developed turbidity currents over plane beds based on self-preserving velocity and concentration distributions. <i>Journal of Geophysical Research F: Earth Surface</i> , 2015 , 120, 2176-2199	3.8	4
66	Effect and design of an underminer structure. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2010 , 48, 188-196	1.9	4
65	Hydraulics of free overfall in Eshaped channels. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2002 , 27, 353-363	1	4
64	Bed-Load Transport. <i>GeoPlanet: Earth and Planetary Sciences</i> , 2014 , 261-326	0.1	4
63	Interfacial instability of sand patterns induced by turbulent shear flow. <i>International Journal of Sediment Research</i> , 2021 , 36, 449-456	3	4
62	Circular Far-Wake Flow behind a Sphere: Solutions to the Second Order. <i>Journal of Engineering Mechanics - ASCE</i> , 2016 , 142, 06015005	2.4	3
61	Hydrodynamics of a weakly curved channel. <i>Physics of Fluids</i> , 2019 , 31, 055110	4.4	3
60	Turbulence Anisotropy in Flow at an Entrainment Threshold of Sediment. <i>Journal of Hydraulic Engineering</i> , 2015 , 141, 06015007	1.8	3
59	Hydrodynamic Lift on Sediment Particles at Entrainment: Present Status and Its Prospect. <i>Journal of Hydraulic Engineering</i> , 2020 , 146, 03120001	1.8	3
58	Bedload transport from analytical and turbulence phenomenological perspectives. <i>International Journal of Sediment Research</i> , 2019 , 34, 509-530	3	3
57	Second-Order Shallow-Flow Theory and Dupuit Approximation for Phreatic Aquifers. <i>Journal of Hydraulic Engineering</i> , 2014 , 140, 04014040	1.8	3
56	Turbulent unsteady flow profiles over an adverse slope. <i>Acta Geophysica</i> , 2013 , 61, 84-97	2.2	3
55	One-dimensional channel flow equations with curvature revisited. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2009 , 47, 157-166	1.9	3
54	Choke-free flow in trapezoidal channels with change in bed elevation. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 1998 , 23, 259-267	1	3
53	End Depth in U-Shaped Channels: A Simplified Approach. <i>Journal of Hydraulic Engineering</i> , 2005 , 131, 513-516	1.8	3

52	Instability of a meandering channel with variable width and curvature: Role of sediment suspension. <i>Physics of Fluids</i> , 2021 , 33, 111401	4.4	3
51	Principles of Mechanics of Bedforms. <i>GeoPlanet: Earth and Planetary Sciences</i> , 2015 , 79-98	0.1	3
50	Evidence of Non-Universality of von Kármán's κ . <i>GeoPlanet: Earth and Planetary Sciences</i> , 2013 , 71-83	0.1	3
49	Conditional Turbulence Characteristics in Water-Worked and Screeded Gravel-Bed Flows. <i>Journal of Hydraulic Engineering</i> , 2020 , 146, 04019052	1.8	3
48	Free surface profiles in river flows: Can standard energy-based gradually-varied flow computations be pursued?. <i>Journal of Hydrology</i> , 2015 , 529, 1644-1656	6	2
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