

Manotosh Kumbhakar

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

260
citations

1039406

9
h-index

996533

15
g-index

23
all docs

23
docs citations

23
times ranked

110
citing authors

#	ARTICLE	IF	CITATIONS
1	One-Dimensional velocity distribution in open channels using Renyi entropy. Stochastic Environmental Research and Risk Assessment, 2017, 31, 949-959.	1.9	42
2	Two dimensional velocity distribution in open channels using Renyi entropy. Physica A: Statistical Mechanics and Its Applications, 2016, 450, 546-559.	1.2	30
3	Derivation of Rouse equation for sediment concentration using Shannon entropy. Physica A: Statistical Mechanics and Its Applications, 2017, 465, 494-499.	1.2	26
4	Hindered Settling Velocity in Particle-Fluid Mixture: A Theoretical Study Using the Entropy Concept. Journal of Hydraulic Engineering, 2017, 143, .	0.7	20
5	An explicit analytical expression for bed-load layer thickness based on maximum entropy principle. Physics Letters, Section A: General, Atomic and Solid State Physics, 2018, 382, 2297-2304.	0.9	15
6	Semi-analytical solution for one-dimensional unsteady sediment transport model in open channel with concentration-dependent settling velocity. Physica Scripta, 2020, 95, 055204.	1.2	13
7	Semianalytical Solution for Simultaneous Distribution of Fluid Velocity and Sediment Concentration in Open-Channel Flow. Journal of Engineering Mechanics - ASCE, 2019, 145, .	1.6	12
8	Two-dimensional distribution of streamwise velocity in open channel flow using maximum entropy principle: Incorporation of additional constraints based on conservation laws. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112738.	3.4	11
9	Reinvestigation on mixing length in an open channel turbulent flow. Acta Geophysica, 2018, 66, 93-107.	1.0	10
10	Vertical Sediment Concentration Distribution in High-Concentrated Flows: An Analytical Solution Using Homotopy Analysis Method. Communications in Theoretical Physics, 2018, 70, 367.	1.1	10
11	Entropy-Based Modeling of Velocity Lag in Sediment-Laden Open Channel Turbulent Flow. Entropy, 2016, 18, 318.	1.1	9
12	Distribution of sediment concentration in debris flow using R�nyi entropy. Physica A: Statistical Mechanics and Its Applications, 2019, 521, 267-281.	1.2	9
13	A mathematical model on depth-averaged Ω^2 -factor in open-channel turbulent flow. Environmental Earth Sciences, 2018, 77, 1.	1.3	8
14	Renyi Entropy and Random Walk Hypothesis to Study Suspended Sediment Concentration. Journal of Hydrologic Engineering - ASCE, 2017, 22, .	0.8	7
15	Application of relative entropy theory to streamwise velocity profile in open-channel flow: effect of prior probability distributions. Zeitschrift Fur Angewandte Mathematik Und Physik, 2019, 70, 1.	0.7	6
16	On the role of Tsallis entropy index for velocity modelling in open channels. Physica A: Statistical Mechanics and Its Applications, 2020, 557, 124901.	1.2	6
17	Streamwise velocity profile in open-channel flow based on Tsallis relative entropy. Chaos, 2020, 30, 073136.	1.0	6
18	Suspended Sediment Concentration and Discharge in Open Channels Using R�nyi Entropy. Journal of Hydrologic Engineering - ASCE, 2018, 23, .	0.8	5

#	ARTICLE	IF	CITATIONS
19	Mathematical modelling of streamwise velocity profile in open channels using Tsallis entropy. Communications in Nonlinear Science and Numerical Simulation, 2021, 94, 105581.	1.7	5
20	Application of homotopy analysis method to the determination of vertical sediment concentration distribution with shear-induced diffusivity. Engineering With Computers, 0, , 1.	3.5	5
21	Semianalytical Solution for Nonequilibrium Suspended Sediment Transport in Open Channels with Concentration-Dependent Settling Velocity. Journal of Hydrologic Engineering - ASCE, 2022, 27, .	0.8	5
22	Discussion of "Estimation of one-dimensional velocity distribution by measuring velocity at two points" by Yeganeh and Heidari (2020). Flow Measurement and Instrumentation, 2021, 77, 101886.	1.0	0