

Snehasis Kundu

List of Publications by Year in descending order

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133
citing authors

#	ARTICLE	IF	CITATIONS
1	An Analytical Model for Velocity Distribution and Dip-Phenomenon in Uniform Open Channel Flows. International Journal of Fluid Mechanics Research, 2012, 39, 381-395.	0.4	34
2	Effects of secondary current and stratification on suspension concentration in an open channel flow. Environmental Fluid Mechanics, 2014, 14, 1357-1380.	1.6	31
3	Review of Suspended Sediment Transport Mathematical Modelling Studies. Fluids, 2022, 7, 23.	1.7	22
4	Suspension concentration distribution in turbulent flows: An analytical study using fractional advection-diffusion equation. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 135-155.	2.6	21
5	Hindered Settling Velocity in Particle-Fluid Mixture: A Theoretical Study Using the Entropy Concept. Journal of Hydraulic Engineering, 2017, 143, .	1.5	20
6	Prediction of velocity-dip-position over entire cross section of open channel flows using entropy theory. Environmental Earth Sciences, 2017, 76, 1.	2.7	17
7	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.	2.1	15
8	Influence of secondary current on vertical concentration distribution in an open channel flow. ISH Journal of Hydraulic Engineering, 2013, 19, 88-96.	2.1	14
9	Prediction of Velocity-Dip-Position at the Central Section of Open Channels using Entropy Theory. Journal of Applied Fluid Mechanics, 2017, 10, 221-229.	0.2	13
10	Derivation of Hunt equation for suspension distribution using Shannon entropy theory. Physica A: Statistical Mechanics and Its Applications, 2017, 488, 96-111.	2.6	12
11	Derivation of different suspension equations in sediment-laden flow from Shannon entropy. Stochastic Environmental Research and Risk Assessment, 2018, 32, 563-576.	4.0	12
12	Effect of lateral bed roughness variation on particle suspension in open channels. Environmental Earth Sciences, 2016, 75, 1.	2.7	11
13	Reinvestigation on mixing length in an open channel turbulent flow. Acta Geophysica, 2018, 66, 93-107.	2.0	10
14	Analytical Solutions of One-Dimensional Space-Fractional Advection-Diffusion Equation for Sediment Suspension Using Homotopy Analysis Method. Journal of Engineering Mechanics - ASCE, 2019, 145, .	2.9	10
15	Entropy-Based Modeling of Velocity Lag in Sediment-Laden Open Channel Turbulent Flow. Entropy, 2016, 18, 318.	2.2	9
16	Modeling stratified suspension concentration distribution in turbulent flow using fractional advection-diffusion equation. Environmental Fluid Mechanics, 2019, 19, 1557-1574.	1.6	9
17	Explicit formulation for suspended concentration distribution with near-bed particle deficiency. Powder Technology, 2014, 253, 429-437.	4.2	7
18	Two-Parameter Mittag-Leffler Solution of Space Fractional Advection-Diffusion Equation for Sediment Suspension in Turbulent Flows. Journal of Environmental Engineering, ASCE, 2018, 144, 06018005.	1.4	7

#	ARTICLE	IF	CITATIONS
19	Study of unsteady nonequilibrium stratified suspended sediment distribution in open-channel turbulent flows using shifted Chebyshev polynomials. <i>ISH Journal of Hydraulic Engineering</i> , 2020, , 1-11.	2.1	7
20	Application of the fractional entropy for one-dimensional velocity distribution with dip-phenomenon in open-channel turbulent flows. <i>Stochastic Environmental Research and Risk Assessment</i> , 2022, 36, 1289-1312.	4.0	7
21	A mathematical model for type II profile of concentration distribution in turbulent flows. <i>Environmental Fluid Mechanics</i> , 2017, 17, 449-472.	1.6	6
22	Spectral approximation methods for non equilibrium transport in turbulent channel flows using fADE. <i>Applied Numerical Mathematics</i> , 2021, 162, 53-66.	2.1	5
23	Two-dimensional distribution of stream-wise mean velocity in turbulent flow with effect of suspended sediment concentration. <i>Environmental Fluid Mechanics</i> , 2022, 22, 133-158.	1.6	5
24	Effects of non-locality on unsteady nonequilibrium sediment transport in turbulent flows: A study using space fractional ADE with fractional divergence. <i>Applied Mathematical Modelling</i> , 2021, 96, 617-644.	4.2	4
25	Asymptotic model for velocity dip position in open channels. <i>Applied Water Science</i> , 2017, 7, 4415-4426.	5.6	3
26	Space fractional kinetic model for different types of suspension profiles in turbulent flows with a neural network-based estimation of fractional orders. <i>Journal of Hydrology</i> , 2021, 602, 126707.	5.4	3
27	An Entropy Based Model for Velocity-Dip-Position. <i>Journal of Environmental Informatics</i> , 0, , .	6.0	2
28	Time fractional advection-dispersion model to study transportation of particles with time-memory for unsteady nonequilibrium suspension in open-channel turbulent flows. <i>Physica Scripta</i> , 2021, 96, 124078.	2.5	2
29	Concentration distribution in an open channel flow by observational approach. <i>ISH Journal of Hydraulic Engineering</i> , 2014, 20, 75-89.	2.1	1
30	Asymptotic model for velocity dip position in open channels. , 2017, 7, 4415.		1
31	Analytical models of mean secondary velocities and stream functions under different bed-roughness configurations in wide open-channel turbulent flows. <i>Environmental Fluid Mechanics</i> , 2022, 22, 159-188.	1.6	1
32	Reply to "Comments on modeling stratified suspension concentration distribution in turbulent flow using fractional advection-diffusion equation" by R. Absi. <i>Environmental Fluid Mechanics</i> , 0, , 1.	1.6	0
33	Analysis and validation of mathematical models of secondary velocities along vertical and transverse directions in wide open-channel turbulent flows. <i>Fluid Dynamics Research</i> , 2022, 54, 015515.	1.3	0