Snehasis Kundu

List of Publications by Year
in descending order

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33	321	949033	1051228
papers	citations	11	16
		h-index	g-index

35	35	35	147
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Review of Suspended Sediment Transport Mathematical Modelling Studies. Fluids, 2022, 7, 23.	0.8	22
2	Analytical models of mean secondary velocities and stream functions under different bed-roughness configurations in wide open-channel turbulent flows. Environmental Fluid Mechanics, 2022, 22, 159-188.	0.7	1
3	Two-dimensional distribution of stream-wise mean velocity in turbulent flow with effect of suspended sediment concentration. Environmental Fluid Mechanics, 2022, 22, 133-158.	0.7	5
4	Analysis and validation of mathematical models of secondary velocities along vertical and transverse directions in wide open-channel turbulent flows. Fluid Dynamics Research, 2022, 54, 015515.	0.6	0
5	Application of the fractional entropy for one-dimensional velocity distribution with dip-phenomenon in open-channel turbulent flows. Stochastic Environmental Research and Risk Assessment, 2022, 36, 1289-1312.	1.9	7
6	Spectral approximation methods for non equilibrium transport in turbulent channel flows using fADE. Applied Numerical Mathematics, 2021, 162, 53-66.	1.2	5
7	Effects of non-locality on unsteady nonequilibrium sediment transport in turbulent flows: A study using space fractional ADE with fractional divergence. Applied Mathematical Modelling, 2021, 96, 617-644.	2.2	4
8	Space fractional kinetic model for different types of suspension profiles in turbulent flows with a neural network-based estimation of fractional orders. Journal of Hydrology, 2021, 602, 126707.	2.3	3
9	Time fractional advection-dispersion model to study transportation of particles with time-memory for unsteady nonequilibrium suspension in open-channel turbulent flows. Physica Scripta, 2021, 96, 124078.	1.2	2
10	Study of unsteady nonequilibrium stratified suspended sediment distribution in open-channel turbulent flows using shifted Chebyshev polynomials. ISH Journal of Hydraulic Engineering, 2020, , 1-11.	1.1	7
11	Analytical Solutions of One-Dimensional Space-Fractional Advectionâ€“Diffusion Equation for Sediment Suspension Using Homotopy Analysis Method. Journal of Engineering Mechanics - ASCE, 2019, 145, .	1.6	10
12	Modeling stratified suspension concentration distribution in turbulent flow using fractional advectionâ€“diffusion equation. Environmental Fluid Mechanics, 2019, 19, 1557-1574.	0.7	9
13	Suspension concentration distribution in turbulent flows: An analytical study using fractional advectionâ€“diffusion equation. Physica A: Statistical Mechanics and Its Applications, 2018, 506, 135-155.	1.2	21
14	Reinvestigation on mixing length in an open channel turbulent flow. Acta Geophysica, 2018, 66, 93-107.	1.0	10
15	Derivation of different suspension equations in sediment-laden flow from Shannon entropy. Stochastic Environmental Research and Risk Assessment, 2018, 32, 563-576.	1.9	12
16	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
17	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.	0.7	7
18	A mathematical model for type II profile of concentration distribution in turbulent flows. Environmental Fluid Mechanics, 2017, 17, 449-472.	0.7	6

#	Article	IF	Citations
19	Prediction of velocity-dip-position over entire cross section of open channel flows using entropy theory. Environmental Earth Sciences, 2017, 76, 1.	1.3	17
20	Hindered Settling Velocity in Particle-Fluid Mixture: A Theoretical Study Using the Entropy Concept. Journal of Hydraulic Engineering, 2017, 143, .	0.7	20
21	Asymptotic model for velocity dip position in open channels. Applied Water Science, 2017, 7, 4415-4426.	2.8	3
22	Derivation of Hunt equation for suspension distribution using Shannon entropy theory. Physica A: Statistical Mechanics and Its Applications, 2017, 488, 96-111.	1.2	12
23	Asymptotic model for velocity dip position in open channels. , 2017, 7, 4415.		1
24	Prediction of Velocity-Dip-Position at the Central Section of Open Channels using Entropy Theory. Journal of Applied Fluid Mechanics, 2017, 10, 221-229.	0.4	13
25	Entropy-Based Modeling of Velocity Lag in Sediment-Laden Open Channel Turbulent Flow. Entropy, 2016, 18, 318.	1.1	9
26	Effect of lateral bed roughness variation on particle suspension in open channels. Environmental Earth Sciences, 2016, 75, 1.	1.3	11
27	Concentration distribution in an open channel flow by observational approach. ISH Journal of Hydraulic Engineering, 2014, 20, 75-89.	1.1	1
28	Effects of secondary current and stratification on suspension concentration in an open channel flow. Environmental Fluid Mechanics, 2014, 14, 1357-1380.	0.7	31
29	Explicit formulation for suspended concentration distribution with near-bed particle deficiency. Powder Technology, 2014, 253, 429-437.	2.1	7
30	Influence of secondary current on vertical concentration distribution in an open channel flow. ISH Journal of Hydraulic Engineering, 2013, 19, 88-96.	1.1	14
31	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
32	An Entropy Based Model for Velocity-Dip-Position. Journal of Environmental Informatics, 0, , .	6.0	2
33	Reply to "Comments on modeling stratified suspension concentration distribution in turbulent flow using fractional advection-diffusion equation" by R. Absi. Environmental Fluid Mechanics, 0, , 1.	0.7	0