

Som Dutta

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

211
citations

1307594

7
h-index

1058476

14
g-index

28
all docs

28
docs citations

28
times ranked

254
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct numerical simulation of the turbulent flow generated during a violent expiratory event. <i>Physics of Fluids</i> , 2021, 33, 035122.	4.0	39
2	Scalability of high-performance PDE solvers. <i>International Journal of High Performance Computing Applications</i> , 2020, 34, 562-586.	3.7	34
3	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.	2.5	26
4	Direct numerical simulation of turbulent dispersion of evaporative aerosol clouds produced by an intense expiratory event. <i>Physics of Fluids</i> , 2021, 33, 033329.	4.0	24
5	Nonconforming Schwarz-spectral element methods for incompressible flow. <i>Computers and Fluids</i> , 2019, 191, 104237.	2.5	19
6	The effect of Schmidt number on gravity current flows: The formation of large-scale three-dimensional structures. <i>Physics of Fluids</i> , 2021, 33, .	4.0	11
7	Multirate timestepping for the incompressible Navier-Stokes equations in overlapping grids. <i>Journal of Computational Physics</i> , 2021, 437, 110335.	3.8	10
8	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.	2.4	7
9	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.	1.7	7
10	Nonlinear Distribution of Sediment at River Diversions: Brief History of the Bulle Effect and Its Implications. <i>Journal of Hydraulic Engineering</i> , 2018, 144, .	1.5	5
11	Large Eddy Simulation of three-dimensional flow structures over wave-generated ripples. <i>Earth Surface Processes and Landforms</i> , 2021, 46, 1536-1548.	2.5	5
12	Morphology of bubble dynamics and sound in heated oil. <i>Physics of Fluids</i> , 2022, 34, .	4.0	5
13	Large Eddy Simulation (LES) of flow and bedload transport at an idealized 90-degree diversion: Insight into Bulle-Effect. , 2016, , .		4
14	Sediment Flushout from Pond of River Diversion Barrages by Gate Operation. <i>Water Resources Management</i> , 2014, 28, 5335-5356.	3.9	3
15	Visualization of the Bulle-Effect at River Bifurcations. , 2018, , .		3
16	Computational Fluid Dynamics (CFD) Modeling of Flow into the Aerated Grit Chamber of the MWRD's North Side Water Reclamation Plant, Illinois. , 2010, , .		2
17	CFD Model of the Density-Driven Bidirectional Flows through the West Crack Breach in the Great Salt Lake Causeway. <i>Water (Switzerland)</i> , 2021, 13, 2423.	2.7	2
18	High-Resolution Large Eddy Simulations of Vortex Dynamics Over Ripple Defects Under Oscillatory Flow. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	2

#	ARTICLE	IF	CITATIONS
19	Discussion of "Evaluation of Sediment Diversion Design Attributes and Their Impact on the Capture Efficiency" by Ahmed Gaweesh and Ehab Meselhe. Journal of Hydraulic Engineering, 2018, 144, 07018007.	1.5	1
20	Direct numerical simulation of rotating ellipsoidal particles using moving nonconforming Schwarz-spectral element method. Computers and Fluids, 2020, 205, 104556.	2.5	1
21	The effect of high-fidelity flow models on electromagnetic flowmeter analysis. AWWA Water Science, 2022, 4, .	2.1	1
22	10.1063/5.0045416.3., 2021,, .		0