

Som Dutta

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7166729/publications.pdf>

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	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
2	The effect of high-fidelity flow models on electromagnetic flowmeter analysis. <i>AWWA Water Science</i> , 2022, 4, .	2.1	1
3	Morphology of bubble dynamics and sound in heated oil. <i>Physics of Fluids</i> , 2022, 34, .	4.0	5
4	10.1063/5.0045416.3., 2021, , .		0
5	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
6	Direct numerical simulation of the turbulent flow generated during a violent expiratory event. <i>Physics of Fluids</i> , 2021, 33, 035122.	4.0	39
7	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
8	Multirate timestepping for the incompressible Navier-Stokes equations in overlapping grids. <i>Journal of Computational Physics</i> , 2021, 437, 110335.	3.8	10
9	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
10	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
11	Direct numerical simulation of rotating ellipsoidal particles using moving nonconforming Schwarz-spectral element method. <i>Computers and Fluids</i> , 2020, 205, 104556.	2.5	1
12	Scalability of high-performance PDE solvers. <i>International Journal of High Performance Computing Applications</i> , 2020, 34, 562-586.	3.7	34
13	Nonconforming Schwarz-spectral element methods for incompressible flow. <i>Computers and Fluids</i> , 2019, 191, 104237.	2.5	19
14	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
15	Visualization of the Bulle-Effect at River Bifurcations. , 2018, , .		3
16	Discussion of Evaluation of Sediment Diversion Design Attributes and Their Impact on the Capture Efficiency by Ahmed Gaweesh and Ehab Meselhe. <i>Journal of Hydraulic Engineering</i> , 2018, 144, 07018007.	1.5	1
17	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
18	Large Eddy Simulation (LES) of flow and bedload transport at an idealized 90-degree diversion: Insight into Bulle-Effect. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Sediment Flushout from Pond of River Diversion Barrages by Gate Operation. <i>Water Resources Management</i> , 2014, 28, 5335-5356.	3.9	3
22	Computational Fluid Dynamics (CFD) Modeling of Flow into the Aerated Grit Chamber of the MWRD's North Side Water Reclamation Plant, Illinois. , 2010, , .		2