Guillaume Vinay

List of Publications by Year
in descending order

20	908	840776	940533
papers	citations	11	16
		h-index	g-index

20	20	20	553
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Grains3D, a flexible DEM approach for particles of arbitrary convex shape â€" Part I: Numerical model and validations. Powder Technology, 2012, 224, 374-389.	4.2	149
2	Numerical simulation of weakly compressible Bingham flows: The restart of pipeline flows of waxy crude oils. Journal of Non-Newtonian Fluid Mechanics, 2006, 136, 93-105.	2.4	128
3	A 1.5D numerical model for the start up of weakly compressible flow of a viscoplastic and thixotropic fluid in pipelines. Journal of Non-Newtonian Fluid Mechanics, 2009, 159, 81-94.	2.4	114
4	Start-up transients and efficient computation of isothermal waxy crude oil flows. Journal of Non-Newtonian Fluid Mechanics, 2007, 143, 141-156.	2.4	92
5	Numerical simulation of non-isothermal viscoplastic waxy crude oil flows. Journal of Non-Newtonian Fluid Mechanics, 2005, 128, 144-162.	2.4	86
6	A three-dimensional discrete-grain model for the simulation of dam-break rectangular collapses: comparison between numerical results and experiments. Granular Matter, 2012, 14, 381-392.	2.2	69
7	Compressible displacement of waxy crude oils in long pipeline startup flows. Journal of Non-Newtonian Fluid Mechanics, 2007, 147, 45-64.	2.4	57
8	Modeling the rheological behavior of waxy crude oils as a function of flow and temperature history. Journal of Rheology, 2015, 59, 703-732.	2.6	57
9	Accuracy of Finite Volume/Staggered Grid Distributed Lagrange Multiplier/Fictitious Domain simulations of particulate flows. Computers and Fluids, 2015, 115, 154-172.	2.5	48
10	Reversible and irreversible destructuring flow in waxy oils: An MRI study. Journal of Non-Newtonian Fluid Mechanics, 2015, 220, 77-86.	2.4	39
11	Yield Stress and Minimum Pressure for Simulating the Flow Restart of a Waxy Crude Oil Pipeline. Energy & Fuels, 2017, 31, 395-407.	5.1	33
12	Start-up of Gelled Waxy Crude Oil Pipelines: A New Analytical Relation to Predict the Restart Pressure. , 2009, , .		16
13	Probing Multiscale Structure and Dynamics of Waxy Crude Oil by Low-Field NMR, X-ray Scattering, and Optical Microscopy. Energy & Fuels, 2020, 34, 12429-12439.	5.1	5
14	A methodology to investigate factors governing the restart pressure of a Malaysian waxy crude oil pipeline. Journal of Petroleum Science and Engineering, 2022, 208, 109785.	4.2	5
15	Evaluation of Morison approach with CFD modelling on a surface-piercing cylinder towards the investigation of FOWT Hydrodynamics. Ocean Engineering, 2022, 251, 111042.	4.3	5
16	Differential Scanning Calorimetry contribution to a better understanding of the aging of gelled waxy crude oils. Oil and Gas Science and Technology, 2019, 74, 16.	1.4	4
17	A 1.5D Numerical Model for Weakly Compressible Viscoplastic and Thixotropic Flows: Application to the Start-up of Waxy Crude Oils in Pipeline. AIP Conference Proceedings, 2008, , .	0.4	1
18	Direct Numerical Simulation of Heat Transfer in Fluidized Bed for Thermal Energy Storage. , 2015, , .		0

#	Article	IF	Citations
19	Heat transfer in a fixed bed of particles for energy storage: a multi-scale numerical study. , 2018, , .		0
20	Numerical Wave Tank Including a Fixed Vertical Cylinder Subjected to Waves, Towards the Investigation of Floating Offshore Wind Turbine Hydrodynamics. , 2020, , .		0