R Sean Sanders

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5081978/publications.pdf

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58	945	430874	501196
papers	citations	18 h-index	28 g-index

58	58	58	693
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical investigation of the respective roles of cohesive and hydrodynamic forces in aggregate restructuring under shear flow. Journal of Colloid and Interface Science, 2022, 608, 355-365.	9.4	3
2	Characterization of the hydrodynamics within a toroid wear tester. Canadian Journal of Chemical Engineering, 2022, 100, 1941-1953.	1.7	1
3	Experimental study of local solid volume fraction fluctuations in a liquid fluidized bed: Particles with a wide range of stokes numbers. International Journal of Multiphase Flow, 2021, 135, 103348.	3.4	5
4	Spatial distribution of particles in turbulent channel flow of dilute suspensions. International Journal of Multiphase Flow, 2021, 135, 103538.	3.4	2
5	Improved scatter correction model for high attenuation gamma-ray tomography measurements. Measurement Science and Technology, 2021, 32, 085903.	2.6	3
6	Investigation of abrasive wear in contact load-dominated slurry flows using a Toroid Wear Tester. Wear, 2021, 477, 203767.	3.1	2
7	Learning, experiences, and actions towards advancing gender equity in engineering as aspiring men's allyship group. Canadian Journal of Chemical Engineering, 2021, 99, 2124-2137.	1.7	4
8	A novel method to improve Electrical Resistance Tomography measurements on slurries containing clays. Flow Measurement and Instrumentation, 2021, 80, 101973.	2.0	9
9	Computational Fluid Dynamics Modelling of Liquidâ€“Solid Slurry Flows in Pipelines: State-of-the-Art and Future Perspectives. Processes, 2021, 9, 1566.	2.8	29
10	On the bias error due to obscured vectors in particle image velocimetry for concentrated solidâ€“liquid flows. Measurement Science and Technology, 2020, 31, 015203.	2.6	0
11	Performance and hydrodynamics analysis of a Toroid Wear Tester to predict erosion in slurry pipelines. Wear, 2020, 450-451, 203068.	3.1	4
12	Viscoelastic properties of flexible and rigid polymers for turbulent drag reduction. Journal of Non-Newtonian Fluid Mechanics, 2020, 283, 104347.	2.4	25
13	Experimental investigation of three-dimensional flow around particles in a turbulent channel flow. Physical Review Fluids, 2020, 5, .	2.5	4
14	Multi-fluid approach for the numerical prediction of wall erosion in an elbow. Powder Technology, 2019, 354, 561-583.	4.2	18
15	Near-wall motion of inertial particles in a drag-reduced non-Newtonian turbulent flow. Experiments in Fluids, 2019, 60, 1.	2.4	5
16	Dynamics and wall collision of inertial particles in a solidâ€“liquid turbulent channel flow. Journal of Fluid Mechanics, 2019, 881, 872-905.	3.4	18
17	Study of local solid volume fraction fluctuations using high speed electrical impedance tomography: Particles with low Stokes number. Chemical Engineering Science, 2019, 203, 439-449.	3.8	8
18	A new approach to model friction losses in the waterâ€assisted pipeline transportation of heavy oil and bitumen. Canadian Journal of Chemical Engineering, 2019, 97, 2347-2358.	1.7	9

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19	Analysis of local wear variables for high-precision erosion modelling in complex geometries. Wear, 2019, 426-427, 562-569.	3.1	15
20	Numerical study of crude oil batch mixing in a long channel. Petroleum Science, 2019, 16, 187-198.	4.9	10
21	Particle image and tracking velocimetry of solid-liquid turbulence in a horizontal channel flow. International Journal of Multiphase Flow, 2019, 112, 83-99.	3.4	28
22	Measuring the Refractive Index, Density, Viscosity, pH, and Surface Tension of Potassium Thiocyanate (KSCN) Solutions for Refractive Index Matching in Flow Experiments. Journal of Chemical & Engineering Data, 2018, 63, 1275-1285.	1.9	6
23	CFD Methodology to Determine the Hydrodynamic Roughness of a Surface with Application to Viscous Oil Coatings. Journal of Hydraulic Engineering, 2018, 144, .	1.5	7
24	A Recipe for Optimum Mixing of Polymer Drag Reducers. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	1.5	6
25	Effect of shear on the yield stress and aggregate structure of flocculant-dosed, concentrated kaolinite suspensions. Minerals Engineering, 2018, 123, 95-103.	4.3	22
26	Toward Better Control of Inclusion Cleanliness in a Gas Stirred Ladle Using Multiscale Numerical Modeling. Materials, 2018, 11, 1179.	2.9	12
27	Side-view-only determination of drag coefficient and settling velocity for non-spherical particles. Powder Technology, 2018, 339, 182-191.	4.2	22
28	Turbulent structures of non-Newtonian solutions containing rigid polymers. Physics of Fluids, 2017, 29, .	4.0	18
29	A parametric study of the hydrodynamic roughness produced by a wall coating layer of heavy oil. Petroleum Science, 2017, 14, 155-166.	4.9	8
30	Investigation of particle-laden turbulent pipe flow at high-Reynolds-number using particle image/tracking velocimetry (PIV/PTV). International Journal of Multiphase Flow, 2017, 89, 136-149.	3.4	36
31	Bubble formation regimes during gas injection into a liquid cross flow in a conduit. Canadian Journal of Chemical Engineering, 2017, 95, 372-385.	1.7	16
32	Effect of pipe inclination on the deposition velocity of settling slurries. Canadian Journal of Chemical Engineering, 2016, 94, 1032-1039.	1.7	12
33	International Conference on Hydrotransport special issue section: Preface. Canadian Journal of Chemical Engineering, 2016, 94, 1017-1018.	1.7	1
34	Solids velocity fluctuations in concentrated slurries. Canadian Journal of Chemical Engineering, 2016, 94, 1059-1065.	1.7	13
35	Particle terminal settling velocities in nonâ€Newtonian viscoplastic fluids. Canadian Journal of Chemical Engineering, 2016, 94, 1092-1101.	1.7	23
36	The effect of low Reynolds number flows on pitot tube measurements. Flow Measurement and Instrumentation, 2015, 45, 247-254.	2.0	17

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37	Specific energy consumption and optimum operating condition for coarse-particle slurries. Powder Technology, 2014, 262, 183-187.	4.2	24
38	Implementation of a model for Falcon separation units using continuous size-density distributions. Minerals Engineering, 2014, 62, 138-141.	4.3	8
39	Application of a capacitance sensor for monitoring water lubricated pipeline flows. Canadian Journal of Chemical Engineering, 2014, 92, 1643-1650.	1.7	2
40	Solid velocity and concentration fluctuations in highly concentrated liquidâ€“solid (slurry) pipe flows. International Journal of Multiphase Flow, 2014, 66, 46-61.	3.4	29
41	An improved method for applying the lockhartâ€“martinelli correlation to threeâ€phase gasâ€“liquidâ€“solid horizontal pipeline flows. Canadian Journal of Chemical Engineering, 2013, 91, 1372-1382.	1.7	18
42	Governing Friction Loss Mechanisms and the Importance of Off-Line Characterization Tests in the Pipeline Transport of Dense Coarse-Particle Slurries. , 2013, , .		1
43	CFD Modeling of Gas-Liquid Bubbly Flow in Horizontal Pipes: Influence of Bubble Coalescence and Breakup. International Journal of Chemical Engineering, 2012, 2012, 1-20.	2.4	18
44	Modelling Concentrated Slurry Pipeline Flows. , 2012, , .		6
45	Flocculation kinetics and aggregate structure of kaolinite mixtures in laminar tube flow. Journal of Colloid and Interface Science, 2011, 355, 96-105.	9.4	35
46	Verification of the near-wall model for slurry flow. Powder Technology, 2010, 197, 247-253.	4.2	29
47	Hydrodynamic Simulation of Horizontal Slurry Pipeline Flow Using ANSYS-CFX. Industrial & Engineering Chemistry Research, 2009, 48, 8159-8171.	3.7	128
48	CFD simulation of bubbly two-phase flow in horizontal pipes. Chemical Engineering Journal, 2008, 144, 277-288.	12.7	70
49	Oil Sand Slurry Conditioning Tests in a 100Âmm Pipeline Loop. Canadian Journal of Chemical Engineering, 2007, 85, 756-764.	1.7	7
50	A novel experimental technique to study single bubbleâ€“bitumen attachment in flotation. International Journal of Mineral Processing, 2004, 74, 15-29.	2.6	40
51	Factors Governing Friction Losses in Selfâ€lubricated Transport of Bitumen Froth: 1. Water Release. Canadian Journal of Chemical Engineering, 2004, 82, 735-742.	1.7	7
52	A New Device to Determine Bitumen Extraction from Oil Sands. Canadian Journal of Chemical Engineering, 2004, 82, 752-762.	1.7	6
53	Performance of Sand Slurry Pipelines in the Oil Sands Industry. Canadian Journal of Chemical Engineering, 2004, 82, 850-857.	1.7	10
54	Bubble Size Distributions for Dispersed Air #0150; Water Flows in a 100 mm Horizontal Pipeline. Canadian Journal of Chemical Engineering, 2004, 82, 858-864.	1.7	9

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55	Hydrophobic Interactions in Silaneâ€Treated Silica Suspensions and Bitumen Emulsions. Canadian Journal of Chemical Engineering, 2003, 81, 43-52.	1.7	4
56	Bitumen effects on pipeline hydraulics during oil sand hydrotransport. Canadian Journal of Chemical Engineering, 2000, 78, 731-742.	1.7	13
57	Deposition of Bitumen and Asphaltene-Stabilized Emulsions in an Impinging Jet Cell. Journal of Colloid and Interface Science, 1995, 174, 230-245.	9.4	60
58	A multispecies <scp>1D</scp> concentration distribution model for coarseâ€particle slurries. Canadian Journal of Chemical Engineering, 0, , .	1.7	0