R Sean Sanders

List of Publications by Year
in descending order

58	945	430874	501196
papers	citations	18 h-index	28 g-index
58 all docs	58 docs citations	58 times ranked	693 citing authors

#	Article	IF	Citations
1	Hydrodynamic Simulation of Horizontal Slurry Pipeline Flow Using ANSYS-CFX. Industrial & Engineering Chemistry Research, 2009, 48, 8159-8171.	3.7	128
2	CFD simulation of bubbly two-phase flow in horizontal pipes. Chemical Engineering Journal, 2008, 144, 277-288.	12.7	70
3	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
4	A novel experimental technique to study single bubble–bitumen attachment in flotation. International Journal of Mineral Processing, 2004, 74, 15-29.	2.6	40
5	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
6	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
7	Verification of the near-wall model for slurry flow. Powder Technology, 2010, 197, 247-253.	4.2	29
8	Solid velocity and concentration fluctuations in highly concentrated liquid–solid (slurry) pipe flows. International Journal of Multiphase Flow, 2014, 66, 46-61.	3.4	29
9	Computational Fluid Dynamics Modelling of Liquid–Solid Slurry Flows in Pipelines: State-of-the-Art and Future Perspectives. Processes, 2021, 9, 1566.	2.8	29
10	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
11	Viscoelastic properties of flexible and rigid polymers for turbulent drag reduction. Journal of Non-Newtonian Fluid Mechanics, 2020, 283, 104347.	2.4	25
12	Specific energy consumption and optimum operating condition for coarse-particle slurries. Powder Technology, 2014, 262, 183-187.	4.2	24
13	Particle terminal settling velocities in non‑Newtonian viscoplastic fluids. Canadian Journal of Chemical Engineering, 2016, 94, 1092-1101.	1.7	23
14	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
15	Side-view-only determination of drag coefficient and settling velocity for non-spherical particles. Powder Technology, 2018, 339, 182-191.	4.2	22
16	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
17	An improved method for applying the lockhart–martinelli correlation to three‑phase gas–liquid–solid horizontal pipeline flows. Canadian Journal of Chemical Engineering, 2013, 91, 1372-1382.	1.7	18
18	Turbulent structures of non-Newtonian solutions containing rigid polymers. Physics of Fluids, 2017, 29, .	4.0	18

#	Article	IF	Citations
19	Multi-fluid approach for the numerical prediction of wall erosion in an elbow. Powder Technology, 2019, 354, 561-583.	4.2	18
20	Dynamics and wall collision of inertial particles in a solid–liquid turbulent channel flow. Journal of Fluid Mechanics, 2019, 881, 872-905.	3.4	18
21	The effect of low Reynolds number flows on pitot tube measurements. Flow Measurement and Instrumentation, 2015, 45, 247-254.	2.0	17
22	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
23	Analysis of local wear variables for high-precision erosion modelling in complex geometries. Wear, 2019, 426-427, 562-569.	3.1	15
24	Bitumen effects on pipeline hydraulics during oil sand hydrotransport. Canadian Journal of Chemical Engineering, 2000, 78, 731-742.	1.7	13
25	Solids velocity fluctuations in concentrated slurries. Canadian Journal of Chemical Engineering, 2016, 94, 1059-1065.	1.7	13
26	Effect of pipe inclination on the deposition velocity of settling slurries. Canadian Journal of Chemical Engineering, 2016, 94, 1032-1039.	1.7	12
27	Toward Better Control of Inclusion Cleanliness in a Gas Stirred Ladle Using Multiscale Numerical Modeling. Materials, 2018, 11, 1179.	2.9	12
28	Performance of Sand Slurry Pipelines in the Oil Sands Industry. Canadian Journal of Chemical Engineering, 2004, 82, 850-857.	1.7	10
29	Numerical study of crude oil batch mixing in a long channel. Petroleum Science, 2019, 16, 187-198.	4.9	10
30	Bubble Size Distributions for Dispersed Air &&num;0150; Water Flows in a 100 mm Horizontal Pipeline. Canadian Journal of Chemical Engineering, 2004, 82, 858-864.	1.7	9
31	A new approach to model friction losses in the water–assisted pipeline transportation of heavy oil and bitumen. Canadian Journal of Chemical Engineering, 2019, 97, 2347-2358.	1.7	9
32	A novel method to improve Electrical Resistance Tomography measurements on slurries containing clays. Flow Measurement and Instrumentation, 2021, 80, 101973.	2.0	9
33	Implementation of a model for Falcon separation units using continuous size-density distributions. Minerals Engineering, 2014, 62, 138-141.	4.3	8
34	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
35	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
36	Factors Governing Friction Losses in Self–lubricated Transport of Bitumen Froth: 1. Water Release. Canadian Journal of Chemical Engineering, 2004, 82, 735-742.	1.7	7

#	Article	IF	Citations
37	Oil Sand Slurry Conditioning Tests in a 100Âmm Pipeline Loop. Canadian Journal of Chemical Engineering, 2007, 85, 756-764.	1.7	7
38	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
39	A New Device to Determine Bitumen Extraction from Oil Sands. Canadian Journal of Chemical Engineering, 2004, 82, 752-762.	1.7	6
40	Modelling Concentrated Slurry Pipeline Flows. , 2012, , .		6
41	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
42	A Recipe for Optimum Mixing of Polymer Drag Reducers. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	1.5	6
43	Near-wall motion of inertial particles in a drag-reduced non-Newtonian turbulent flow. Experiments in Fluids, 2019, 60, 1.	2.4	5
44	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
45	Hydrophobic Interactions in Silaneâ€Treated Silica Suspensions and Bitumen Emulsions. Canadian Journal of Chemical Engineering, 2003, 81, 43-52.	1.7	4
46	Performance and hydrodynamics analysis of a Toroid Wear Tester to predict erosion in slurry pipelines. Wear, 2020, 450-451, 203068.	3.1	4
47	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
48	Experimental investigation of three-dimensional flow around particles in a turbulent channel flow. Physical Review Fluids, 2020, 5, .	2.5	4
49	Improved scatter correction model for high attenuation gamma-ray tomography measurements. Measurement Science and Technology, 2021, 32, 085903.	2.6	3
50	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
51	Application of a capacitance sensor for monitoring water lubricated pipeline flows. Canadian Journal of Chemical Engineering, 2014, 92, 1643-1650.	1.7	2
52	Spatial distribution of particles in turbulent channel flow of dilute suspensions. International Journal of Multiphase Flow, 2021, 135, 103538.	3.4	2
53	Investigation of abrasive wear in contact load-dominated slurry flows using a Toroid Wear Tester. Wear, 2021, 477, 203767.	3.1	2
54	International Conference on Hydrotransport special issue section: Preface. Canadian Journal of Chemical Engineering, 2016, 94, 1017-1018.	1.7	1

#	Article	IF	Citations
55	Characterization of the hydrodynamics within a toroid wear tester. Canadian Journal of Chemical Engineering, 2022, 100, 1941-1953.	1.7	1
56	Governing Friction Loss Mechanisms and the Importance of Off-Line Characterization Tests in the Pipeline Transport of Dense Coarse-Particle Slurries. , 2013, , .		1
57	On the bias error due to obscured vectors in particle image velocimetry for concentrated solid–liquid flows. Measurement Science and Technology, 2020, 31, 015203.	2.6	0
58	A multispecies 1D concentration distribution model for coarse‐particle slurries. Canadian Journal of Chemical Engineering, 0, , .	1.7	0