Suzanne M Kresta

List of Publications by Year in Descending Order

76 papers	1,977 citations	23 h-index	43 g-index
83 ext. papers	2,127 ext. citations	3.8 avg, IF	4.82 L-index

#	Paper	IF	Citations
76	Teaching innovation in an age of disruption. *Canadian Journal of Chemical Engineering*, **2021**, 99, 2138-2148	1.9	1
75	Turbulence damping above the cloud height in suspensions of concentrated slurries in stirred tanks. *AICHE Journal*, **2021**, 67, e17207	3.6	1
74	Mechanistic Model of Amine Hydrochloride Salts Precipitation in a Confined Impinging Jet Reactor. *Industrial & Engineering Chemistry Research*, **2020**, 59, 20877-20891	3.9	
73	Blend Time Measurement in the Confined Impeller Stirred Tank. *Chemical Engineering and Technology*, **2019**, 42, 1594	2	
72	Effective sapphire repellency treatment to reduce fouling of a focused beam reflectance measurement (FBRM) probe in bituminous systems. *Canadian Journal of Chemical Engineering*, **2019** , 97, 1949-1952	2.3	3
71	Dewatering of Poor-Quality Bitumen Froth: Induction Time and Mixing Effects. *Energy & Fuels*, **2018**, 32, 10032-10041	4.1	5
70	Psychrometric charts in color: An example of active learning for chemical engineering students and faculty members. *Education for Chemical Engineers*, **2018**, 22, 14-19	2.4	2
69	A novel factorial design search to determine realizable constant sets for a multi-mechanism model of mixing sensitive precipitation. *Computers and Chemical Engineering*, **2017**, 106, 322-338	4	1
68	Reduce Overdosing Effects in Chemical Demulsifier Applications by Increasing Mixing Energy and Decreasing Injection Concentration. *Energy & Fuels*, **2016**, 30, 5183-5189	4.1	11
67	Demulsifier Performance in Diluted Bitumen Dewatering: Effects of Mixing and Demulsifier Dosage. *Energy & Fuels*, **2016**, 30, 9962-9974	4.1	9
66	Demulsifier performance in froth treatment: Untangling the effects of mixing, bulk concentration and injection concentration using a standardized mixing test cell (CIST). *Fuel Processing Technology*, **2015**, 138, 361-367	7.2	10
65	Turbulent Mixing Fundamentals **2015**, 27-41		2
64	Negative Impact of High Stirring Speed in Laboratory-Scale Three-Phase Hydrogenations. *Industrial & Engineering Chemistry Research*, **2014**, 53, 18091-18094	3.9	2
63	Critical analysis of Zwietering correlation for solids suspension in stirred tanks. *Chemical Engineering Research and Design*, **2014**, 92, 413-422	5.5	36
62	The confined impeller stirred tank (CIST): A bench scale testing device for specification of local mixing conditions required in large scale vessels. *Chemical Engineering Research and Design*, **2013**, 91, 2209-2224	5.5	16
61	Transition from turbulent to transitional flow in the top half of a stirred tank. *Chemical Engineering Science*, **2013**, 98, 218-230	4.4	25
60	Prediction of just suspended speed for mixed slurries at high solids loadings. *Chemical Engineering Research and Design*, **2013**, 91, 227-233	5.5	11

59	Effect of geometry on the mechanisms for off-bottom solids suspension in a stirred tank. *Chemical Engineering Science*, **2012**, 79, 163-176	4.4	49
58	Impeller characterization and selection: Balancing efficient hydrodynamics with process mixing requirements. *AICHE Journal*, **2012**, 58, 2573-2588	3.6	33
57	The Effects of Mixing, Reaction Rates, and Stoichiometry on Yield for Mixing Sensitive Reactions Part II: Design Protocols. *International Journal of Chemical Engineering*, **2012**, 2012, 1-13	2.2	7
56	The Effects of Mixing, Reaction Rates, and Stoichiometry on Yield for Mixing Sensitive Reactions Part I: Model Development. *International Journal of Chemical Engineering*, **2012**, 2012, 1-16	2.2	5
55	Design rules for suspending concentrated mixtures of solids in stirred tanks. *Chemical Engineering Research and Design*, **2011**, 89, 1961-1971	5.5	41
54	Measuring the scale of segregation in mixing data. *Canadian Journal of Chemical Engineering*, **2011**, 89, 1122-1138	2.3	20
53	A novel geometry for solids drawdown in stirred tanks. *Chemical Engineering Research and Design*, **2009**, 87, 280-290	5.5	30
52	A new definition of mixing and segregation: Three dimensions of a key process variable. *Chemical Engineering Research and Design*, **2009**, 87, 633-647	5.5	77
51	The effect of stabilizer addition and sonication on nanoparticle agglomeration in a confined impinging jet reactor. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2009**, 350, 38-50	5.1	34
50	Characteristics of a Confined Impinging Jet Reactor: Energy Dissipation, Homogeneous and Heterogeneous Reaction Products, and Effect of Unequal Flow. *Industrial & Engineering Chemistry Research*, **2009**, 48, 7945-7958	3.9	59
49	Comparison of Continuous Blend Time and Residence Time Distribution Models for a Stirred Tank. *Industrial & Engineering Chemistry Research*, **2008**, 47, 3532-3539	3.9	21
48	Mechanisms of solids drawdown in stirred tanks. *Canadian Journal of Chemical Engineering*, **2008**, 86, 622-634	2.3	51
47	CFD Simulations of Three-dimensional Wall Jets in a Stirred Tank. *Canadian Journal of Chemical Engineering*, **2008**, 80, 1-15	2.3	4
46	Impact of sampling method and scale on the measurement of mixing and the coefficient of variance. *AICHE Journal*, **2008**, 54, 3068-3083	3.6	20
45	Effect of amine and thiol addition on the surface chemistry and agglomeration of fine Cu powders. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2008**, 325, 72-80	5.1	9
44	Impact of sampling method and scale on the measurement of mixing and the coefficient of variance **2008**, 54, 3068		1
43	Computational fluid dynamics for predicting performance of ultraviolet disinfection ? sensitivity to particle tracking inputs. *Journal of Environmental Engineering and Science*, **2007**, 6, 285-301	0.8	29
42	Batch blend time in square stirred tanks. *Chemical Engineering Science*, **2006**, 61, 2823-2825	4.4	25

41	Reactor performance with high velocity surface feed. *Chemical Engineering Science*, **2006**, 61, 3033-3043	4.4	10
40	Model reduction for prediction of silver halide precipitation. *Chemical Engineering Science*, **2005**, 60, 2135-2153	4.4	9
39	The Future of Mixing Research. *Chemical Engineering and Technology*, **2004**, 27, 208-214	2	10
38	Comments to On the origin, frequency and magnitude of macro-instabilities of the flows in stirred vessels by Nikiforaki et al.. *Chemical Engineering Science*, **2004**, 59, 951-953	4.4	8
37	Low frequency macroinstabilities in a stirred tank: scale-up and prediction based on large eddy simulations. *Chemical Engineering Science*, **2003**, 58, 2297-2311	4.4	67
36	Three-dimensional wall jets: Axial flow in a stirred tank. *AICHE Journal*, **2001**, 47, 1277-1284	3.6	20
35	Internal annular wall jets: Radial flow in a stirred tank. *AICHE Journal*, **2001**, 47, 2390-2401	3.6	15
34	Active volume of mean circulation for stirred tanks agitated with axial impellers. *Chemical Engineering Science*, **2000**, 55, 1325-1335	4.4	59
33	Limits of Fully Turbulent Flow in a Stirred Tank **2000**, 17-24		2
32	Analysis of Macro-Instabilities (MI) of the Flow Field in a Stirred Tank Agitated with Axial Impellers **2000**, 361-368		2
31	Evolution of drop size distribution in liquid liquid dispersions for various impellers**This paper was the winner of the first North American Mixing Forum Student Award, June, 1997.. *Chemical Engineering Science*, **1998**, 53, 2099-2113	4.4	74
30	Correlation of mean drop size and minimum drop size with the turbulence energy dissipation and the flow in an agitated tank. *Chemical Engineering Science*, **1998**, 53, 2063-2079	4.4	190
29	Self-Preservation of the Drop Size Distribution Function and Variation in the Stability Ratio for Rapid Coalescence of a Polydisperse Emulsion in a Simple Shear Field. *Journal of Colloid and Interface Science*, **1998**, 197, 57-67	9.3	29
28	Turbulence in stirred tanks: Anisotropic, approximate, and applied. *Canadian Journal of Chemical Engineering*, **1998**, 76, 563-576	2.3	78
27	Hands-on Demonstrations: An Alternative to Full Scale Lab Experiments. *Journal of Engineering Education*, **1998**, 87, 7-9	2.3	22
26	Impact of tank geometry on the maximum turbulence energy dissipation rate for impellers. *AICHE Journal*, **1996**, 42, 2476-2490	3.6	159
25	Boundary conditions required for the CFD simulation of flows in stirred tanks **1996**, 297-316		3
24	The effect of geometry on the stability of flow patterns in stirred tanks. *Chemical Engineering Science*, **1994**, 49, 3651-3660	4.4	35

23	The flow field produced by a pitched blade turbine: Characterization of the turbulence and estimation of the dissipation rate. *Chemical Engineering Science*, **1993**, 48, 1761-1774	4.4	161
22	The mean flow field produced by a 45□pitched blade turbine: Changes in the circulation pattern due to off bottom clearance. *Canadian Journal of Chemical Engineering*, **1993**, 71, 42-53	2.3	118
21	Prediction of the three-dimensional turbulent flow in stirred tanks. *AICHE Journal*, **1991**, 37, 448-460	3.6	140
20	Blending of Miscible Liquids507-542		9
19	Solid□iquid Mixing543-584		12
18	Laminar Mixing: A Dynamical Systems Approach89-143		3
17	Immiscible Liquid□iquid Systems639-753		9
16	Turbulence in Mixing Applications19-87		6
15	Mixing and Chemical Reactions755-867		3
14	Mechanically Stirred Vessels345-390		15
13	Solids Mixing887-985		2
12	Mixing of Highly Viscous Fluids, Polymers, and Pastes987-1025		1
11	Gas□iquid Mixing in Turbulent Systems585-638		10
10	Mixing in the Fine Chemicals and Pharmaceutical Industries1027-1069		5
9	Fluid Mixing Technology in the Petroleum Industry1171-1186		
8	Mixing in the Pulp and Paper Industry1187-1246		
7	Role of the Mixing Equipment Supplier1333-1352		
6	Computational Fluid Mixing257-343		4

5	Mixing in Pipelines391-477	7
4	Mechanical Design of Mixing Equipment1247-1332	1
3	Mixing in the Fermentation and Cell Culture Industries1071-1170	11
2	Residence Time Distributions1-17	2
1	RotorStator Mixing Devices479-505	9