

Suzanne M Kresta

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Correlation of mean drop size and minimum drop size with the turbulence energy dissipation and the flow in an agitated tank. <i>Chemical Engineering Science</i> , 1998 , 53, 2063-2079	4.4	190
75	The flow field produced by a pitched blade turbine: Characterization of the turbulence and estimation of the dissipation rate. <i>Chemical Engineering Science</i> , 1993 , 48, 1761-1774	4.4	161
74	Impact of tank geometry on the maximum turbulence energy dissipation rate for impellers. <i>AIChE Journal</i> , 1996 , 42, 2476-2490	3.6	159
73	Prediction of the three-dimensional turbulent flow in stirred tanks. <i>AIChE Journal</i> , 1991 , 37, 448-460	3.6	140
72	The mean flow field produced by a 45° pitched blade turbine: Changes in the circulation pattern due to off bottom clearance. <i>Canadian Journal of Chemical Engineering</i> , 1993 , 71, 42-53	2.3	118
71	Turbulence in stirred tanks: Anisotropic, approximate, and applied. <i>Canadian Journal of Chemical Engineering</i> , 1998 , 76, 563-576	2.3	78
70	A new definition of mixing and segregation: Three dimensions of a key process variable. <i>Chemical Engineering Research and Design</i> , 2009 , 87, 633-647	5.5	77
69	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.. <i>Chemical Engineering Science</i> , 1998 , 53, 2099-2113	4.4	74
68	Low frequency macroinstabilities in a stirred tank: scale-up and prediction based on large eddy simulations. <i>Chemical Engineering Science</i> , 2003 , 58, 2297-2311	4.4	67
67	Characteristics of a Confined Impinging Jet Reactor: Energy Dissipation, Homogeneous and Heterogeneous Reaction Products, and Effect of Unequal Flow. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 7945-7958	3.9	59
66	Active volume of mean circulation for stirred tanks agitated with axial impellers. <i>Chemical Engineering Science</i> , 2000 , 55, 1325-1335	4.4	59
65	Mechanisms of solids drawdown in stirred tanks. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 86, 622-634	2.3	51
64	Effect of geometry on the mechanisms for off-bottom solids suspension in a stirred tank. <i>Chemical Engineering Science</i> , 2012 , 79, 163-176	4.4	49
63	Design rules for suspending concentrated mixtures of solids in stirred tanks. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 1961-1971	5.5	41
62	Critical analysis of Zwietering correlation for solids suspension in stirred tanks. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 413-422	5.5	36
61	The effect of geometry on the stability of flow patterns in stirred tanks. <i>Chemical Engineering Science</i> , 1994 , 49, 3651-3660	4.4	35
60	The effect of stabilizer addition and sonication on nanoparticle agglomeration in a confined impinging jet reactor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 350, 38-50	5.1	34

59	Impeller characterization and selection: Balancing efficient hydrodynamics with process mixing requirements. <i>AIChE Journal</i> , 2012 , 58, 2573-2588	3.6	33
58	A novel geometry for solids drawdown in stirred tanks. <i>Chemical Engineering Research and Design</i> , 2009 , 87, 280-290	5.5	30
57	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. <i>Journal of Colloid and Interface Science</i> , 1998 , 197, 57-67	9.3	29
56	Computational fluid dynamics for predicting performance of ultraviolet disinfection ? sensitivity to particle tracking inputs. <i>Journal of Environmental Engineering and Science</i> , 2007 , 6, 285-301	0.8	29
55	Transition from turbulent to transitional flow in the top half of a stirred tank. <i>Chemical Engineering Science</i> , 2013 , 98, 218-230	4.4	25
54	Batch blend time in square stirred tanks. <i>Chemical Engineering Science</i> , 2006 , 61, 2823-2825	4.4	25
53	Hands-on Demonstrations: An Alternative to Full Scale Lab Experiments. <i>Journal of Engineering Education</i> , 1998 , 87, 7-9	2.3	22
52	Comparison of Continuous Blend Time and Residence Time Distribution Models for a Stirred Tank. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 3532-3539	3.9	21
51	Measuring the scale of segregation in mixing data. <i>Canadian Journal of Chemical Engineering</i> , 2011 , 89, 1122-1138	2.3	20
50	Impact of sampling method and scale on the measurement of mixing and the coefficient of variance. <i>AIChE Journal</i> , 2008 , 54, 3068-3083	3.6	20
49	Three-dimensional wall jets: Axial flow in a stirred tank. <i>AIChE Journal</i> , 2001 , 47, 1277-1284	3.6	20
48	The confined impeller stirred tank (CIST): A bench scale testing device for specification of local mixing conditions required in large scale vessels. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 2209-2224	5.5	16
47	Mechanically Stirred Vessels345-390		15
46	Internal annular wall jets: Radial flow in a stirred tank. <i>AIChE Journal</i> , 2001 , 47, 2390-2401	3.6	15
45	Solid-Liquid Mixing543-584		12
44	Prediction of just suspended speed for mixed slurries at high solids loadings. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 227-233	5.5	11
43	Mixing in the Fermentation and Cell Culture Industries1071-1170		11
42	Reduce Overdosing Effects in Chemical Demulsifier Applications by Increasing Mixing Energy and Decreasing Injection Concentration. <i>Energy & Fuels</i> , 2016 , 30, 5183-5189	4.1	11

41	Demulsifier performance in froth treatment: Untangling the effects of mixing, bulk concentration and injection concentration using a standardized mixing test cell (CIST). <i>Fuel Processing Technology</i> , 2015 , 138, 361-367	7.2	10
40	Reactor performance with high velocity surface feed. <i>Chemical Engineering Science</i> , 2006 , 61, 3033-3043	4.4	10
39	Gas-Liquid Mixing in Turbulent Systems	585-638	10
38	The Future of Mixing Research. <i>Chemical Engineering and Technology</i> , 2004 , 27, 208-214	2	10
37	Effect of amine and thiol addition on the surface chemistry and agglomeration of fine Cu powders. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 325, 72-80	5.1	9
36	Blending of Miscible Liquids	507-542	9
35	Immiscible Liquid-Liquid Systems	639-753	9
34	Rotor-Stator Mixing Devices	479-505	9
33	Model reduction for prediction of silver halide precipitation. <i>Chemical Engineering Science</i> , 2005 , 60, 2135-2153	4.1	9
32	Demulsifier Performance in Diluted Bitumen Dewatering: Effects of Mixing and Demulsifier Dosage. <i>Energy & Fuels</i> , 2016 , 30, 9962-9974	4.1	9
31	Comments to "On the origin, frequency and magnitude of macro-instabilities of the flows in stirred vessels" by Nikiforaki et al.. <i>Chemical Engineering Science</i> , 2004 , 59, 951-953	4.4	8
30	The Effects of Mixing, Reaction Rates, and Stoichiometry on Yield for Mixing Sensitive Reactions Part II: Design Protocols. <i>International Journal of Chemical Engineering</i> , 2012 , 2012, 1-13	2.2	7
29	Mixing in Pipelines	391-477	7
28	Turbulence in Mixing Applications	19-87	6
27	Dewatering of Poor-Quality Bitumen Froth: Induction Time and Mixing Effects. <i>Energy & Fuels</i> , 2018 , 32, 10032-10041	4.1	5
26	The Effects of Mixing, Reaction Rates, and Stoichiometry on Yield for Mixing Sensitive Reactions Part I: Model Development. <i>International Journal of Chemical Engineering</i> , 2012 , 2012, 1-16	2.2	5
25	Mixing in the Fine Chemicals and Pharmaceutical Industries	1027-1069	5
24	CFD Simulations of Three-dimensional Wall Jets in a Stirred Tank. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 80, 1-15	2.3	4

23	Computational Fluid Mixing257-343		4
22	Laminar Mixing: A Dynamical Systems Approach89-143		3
21	Mixing and Chemical Reactions755-867		3
20	Boundary conditions required for the CFD simulation of flows in stirred tanks 1996 , 297-316		3
19	Effective sapphire repellency treatment to reduce fouling of a focused beam reflectance measurement (FBRM) probe in bituminous systems. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 1949-1952	2.3	3
18	Negative Impact of High Stirring Speed in Laboratory-Scale Three-Phase Hydrogenations. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18091-18094	3.9	2
17	Turbulent Mixing Fundamentals 2015 , 27-41		2
16	Solids Mixing887-985		2
15	Residence Time Distributions1-17		2
14	Limits of Fully Turbulent Flow in a Stirred Tank 2000 , 17-24		2
13	Analysis of Macro-Instabilities (MI) of the Flow Field in a Stirred Tank Agitated with Axial Impellers 2000 , 361-368		2
12	Psychrometric charts in color: An example of active learning for chemical engineering students and faculty members. <i>Education for Chemical Engineers</i> , 2018 , 22, 14-19	2.4	2
11	A novel factorial design search to determine realizable constant sets for a multi-mechanism model of mixing sensitive precipitation. <i>Computers and Chemical Engineering</i> , 2017 , 106, 322-338	4	1
10	Mixing of Highly Viscous Fluids, Polymers, and Pastes987-1025		1
9	Mechanical Design of Mixing Equipment1247-1332		1
8	Teaching innovation in an age of disruption. <i>Canadian Journal of Chemical Engineering</i> , 2021 , 99, 2138-2148		1
7	Turbulence damping above the cloud height in suspensions of concentrated slurries in stirred tanks. <i>AICHE Journal</i> , 2021 , 67, e17207	3.6	1
6	Impact of sampling method and scale on the measurement of mixing and the coefficient of variance 2008 , 54, 3068		1

- 5 Blend Time Measurement in the Confined Impeller Stirred Tank. *Chemical Engineering and Technology*, **2019**, 42, 1594 2
- 4 Fluid Mixing Technology in the Petroleum Industry 1171-1186
- 3 Mixing in the Pulp and Paper Industry 1187-1246
- 2 Role of the Mixing Equipment Supplier 1333-1352
- 1 Mechanistic Model of Amine Hydrochloride Salts Precipitation in a Confined Impinging Jet Reactor. *Industrial & Engineering Chemistry Research*, **2020**, 59, 20877-20891 3-9