

# Jyeshtharaj B Joshi

## List of Publications by Year in descending order

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138  
papers

6,886  
citations

81434

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78623

77  
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139  
all docs

139  
docs citations

139  
times ranked

5789  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bubble Formation and Bubble Rise Velocity in Gas-Liquid Systems: A Review. Industrial & Engineering Chemistry Research, 2005, 44, 5873-5931.	1.8	613
2	Catalytic carbon dioxide hydrogenation to methanol: A review of recent studies. Chemical Engineering Research and Design, 2014, 92, 2557-2567.	2.7	484
3	CFD simulation of bubble column—An analysis of interphase forces and turbulence models. Chemical Engineering Journal, 2008, 139, 589-614.	6.6	298
4	Effect of impeller design on the flow pattern and mixing in stirred tanks. Chemical Engineering Journal, 2006, 115, 173-193.	6.6	255
5	CFD simulation of stirred tanks: Comparison of turbulence models. Part I: Radial flow impellers. Canadian Journal of Chemical Engineering, 2011, 89, 23-82.	0.9	159
6	Lipase-Catalyzed Esterification. Catalysis Reviews - Science and Engineering, 2000, 42, 439-480.	5.7	147
7	Petroleum Residue Upgradation via Visbreaking: A Review. Industrial & Engineering Chemistry Research, 2008, 47, 8960-8988.	1.8	142
8	Petroleum Residue Upgrading Via Delayed Coking: A Review. Canadian Journal of Chemical Engineering, 2007, 85, 1-24.	0.9	139
9	Droplet impact dynamics on a spherical particle. Chemical Engineering Science, 2013, 100, 105-119.	1.9	122
10	Characterization of flow phenomena induced by ultrasonic horn. Chemical Engineering Science, 2006, 61, 7410-7420.	1.9	120
11	CFD simulations of bubble column reactors: 1D, 2D and 3D approach. Chemical Engineering Science, 2005, 60, 6733-6746.	1.9	117
12	CFD analysis of flow pattern and heat transfer in direct contact steam condensation. Chemical Engineering Science, 2006, 61, 5204-5220.	1.9	115
13	Fluidized bed synthesis of carbon nanotubes — A review. Chemical Engineering Journal, 2011, 171, 841-869.	6.6	112
14	Liquid-Phase Mixing in Stirred Vessels: A Turbulent Flow Regime. Industrial & Engineering Chemistry Research, 2003, 42, 2661-2698.	1.8	108
15	Critical impeller speed for solid suspension in mechanically agitated three-phase reactors. 1. Experimental part. Industrial & Engineering Chemistry Research, 1991, 30, 1770-1784.	1.8	103
16	Relation between Flow Pattern and Blending in Stirred Tanks. Industrial & Engineering Chemistry Research, 1999, 38, 3131-3143.	1.8	102
17	CFD simulation of stirred tanks: Comparison of turbulence models (Part II: Axial flow impellers,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 754-816.	0.9	98
18	Analysis of flow through an orifice meter: CFD simulation. Chemical Engineering Science, 2012, 71, 300-309.	1.9	96

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19	Computational Fluid Dynamics for Designing Process Equipment:Â Expectations, Current Status, and Path Forward. <i>Industrial &amp; Engineering Chemistry Research</i> , 2003, 42, 1115-1128.	1.8	95
20	Petroleum coke gasification: A review. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 441-468.	0.9	95
21	Advanced PIV/LIF and shadowgraphy system to visualize flow structure in two-phase bubbly flows. <i>Chemical Engineering Science</i> , 2010, 65, 2431-2442.	1.9	84
22	CFD modeling of solidâ€liquid fluidized beds of mono and binary particle mixtures. <i>Chemical Engineering Science</i> , 2009, 64, 3641-3658.	1.9	79
23	Application of multiresolution analysis for simultaneous measurement of gas and liquid velocities and fractional gas hold-up in bubble column using LDA. <i>Chemical Engineering Science</i> , 2001, 56, 5037-5048.	1.9	77
24	Studies on the lipozyme-catalyzed synthesis of butyl laurate. <i>Biotechnology and Bioengineering</i> , 1995, 46, 1-12.	1.7	76
25	Investigation of flow and temperature patterns in direct contact condensation using PIV, PLIF and CFD. <i>Chemical Engineering Science</i> , 2010, 65, 4606-4620.	1.9	74
26	CFD simulations of shell-side flow in a shell-and-tube type heat exchanger with and without baffles. <i>Chemical Engineering Science</i> , 2016, 143, 314-340.	1.9	70
27	Analysis of flow pattern and heat transfer in direct contact condensation. <i>Chemical Engineering Science</i> , 2009, 64, 1719-1738.	1.9	65
28	Design of Gas-Inducing Reactors. <i>Industrial &amp; Engineering Chemistry Research</i> , 1999, 38, 49-80.	1.8	64
29	CFD Simulation of Bubble Column Reactor Using Population Balance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 8505-8516.	1.8	64
30	CFD modeling of pressure drop and drag coefficient in fixed and expanded beds. <i>Chemical Engineering Research and Design</i> , 2008, 86, 444-453.	2.7	63
31	CFD modeling of pressure drop and drag coefficient in fixed beds: Wall effects. <i>Particuology</i> , 2010, 8, 37-43.	2.0	59
32	Specificity of a lipase in ester synthesis: effect of alcohol. <i>Biotechnology Progress</i> , 1995, 11, 282-287.	1.3	55
33	Dynamics of Flow Structures and Transport Phenomena, 1. Experimental and Numerical Techniques for Identification and Energy Content of Flow Structures. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 8244-8284.	1.8	55
34	Segregation and dispersion of binary solids in liquid fluidised beds: A CFD-DEM study. <i>Chemical Engineering Science</i> , 2016, 152, 65-83.	1.9	53
35	Analysis of dominant flow structures and their flow dynamics in chemical process equipment using snapshot proper orthogonal decomposition technique. <i>Chemical Engineering Science</i> , 2008, 63, 3695-3715.	1.9	51
36	CFD simulation for steam distribution in header and tube assemblies. <i>Chemical Engineering Research and Design</i> , 2012, 90, 487-506.	2.7	51

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37	Development of support vector regression (SVR)-based correlation for prediction of overall gas hold-up in bubble column reactors for various gas-liquid systems. Chemical Engineering Science, 2007, 62, 7078-7089.	1.9	49
38	Computational fluid dynamic modelling of FCC riser: A review. Chemical Engineering Research and Design, 2016, 111, 403-448.	2.7	49
39	Bubble generated turbulence and direct numerical simulations. Chemical Engineering Science, 2017, 157, 26-75.	1.9	45
40	Liquid phase axial mixing in solid-liquid circulating multistage fluidized bed: CFD modeling and RTD measurements. Chemical Engineering Journal, 2012, 191, 475-490.	6.6	42
41	Stability analysis in solid-liquid fluidized beds: Experimental and computational. Chemical Engineering Journal, 2014, 256, 169-186.	6.6	42
42	Kinetic Studies of Low Severity Visbreaking. Industrial & Engineering Chemistry Research, 2004, 43, 1373-1387.	1.8	41
43	Residence Time Distribution and Flow Patterns in the Single-Phase Annular Region of Annular Centrifugal Extractor. Industrial & Engineering Chemistry Research, 2009, 48, 37-46.	1.8	41
44	Bubbles in viscous liquids: Time dependent behaviour and wake characteristics. Chemical Engineering Science, 2016, 144, 298-309.	1.9	41
45	Gas Inducing Type Mechanically Agitated Contactors. Industrial & Engineering Chemistry Research, 1994, 33, 2226-2241.	1.8	40
46	Design and selection of sparger for bubble column reactor. Part I: Performance of different spargers. Chemical Engineering Research and Design, 2011, 89, 1972-1972.	2.7	40
47	Interactions in droplet and particle system of near unity size ratio. Chemical Engineering Science, 2017, 170, 154-175.	1.9	40
48	Determination of bubble size distributions in bubble columns using LDA. AIChE Journal, 2004, 50, 3068-3084.	1.8	38
49	Identification and characterization of flow structures in chemical process equipment using multiresolution techniques. Chemical Engineering Science, 2008, 63, 5330-5346.	1.9	38
50	Estimation of heat transfer coefficient in bubble column reactors using support vector regression. Chemical Engineering Journal, 2010, 160, 302-310.	6.6	38
51	Mass-Transfer Characteristics of Surface Aerators and Gas-Inducing Impellers. Industrial & Engineering Chemistry Research, 2004, 43, 2765-2774.	1.8	37
52	Two phase natural convection: CFD simulations and PIV measurement. Chemical Engineering Science, 2011, 66, 3152-3171.	1.9	37
53	Fluidized bed synthesis of carbon nanotubes: Reaction mechanism, rate controlling step and overall rate of reaction. AIChE Journal, 2014, 60, 2882-2892.	1.8	37
54	Comparison of turbulence models for bubble column reactors. Chemical Engineering Science, 2017, 164, 34-52.	1.9	37

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55	Simulation of Flow in Stirred Vessels with Axial Flow Impellers: Effects of Various Numerical Schemes and Turbulence Model Parameters. <i>Industrial &amp; Engineering Chemistry Research</i> , 1995, 34, 626-639.	1.8	36
56	Optimization of non-evacuated receiver of solar collector having non-uniform temperature distribution for minimum heat loss. <i>Energy Conversion and Management</i> , 2014, 85, 70-84.	4.4	35
57	Effect of Internals on the Flow Pattern and Mixing in Stirred Tanks. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 9951-9961.	1.8	34
58	Computational and experimental fluid dynamics of jet loop reactor. <i>AIChE Journal</i> , 2009, 55, 2526-2544.	1.8	34
59	Forces acting on a single introduced particle in a solid-liquid fluidised bed. <i>Chemical Engineering Science</i> , 2014, 116, 49-70.	1.9	34
60	Flow past a single stationary sphere, 2. Regime mapping and effect of external disturbances. <i>Powder Technology</i> , 2020, 365, 215-243.	2.1	34
61	Simultaneous measurement of hold-up profiles and interfacial area using LDA in bubble columns: predictions by multiresolution analysis and comparison with experiments. <i>Chemical Engineering Science</i> , 2001, 56, 6437-6445.	1.9	33
62	Gas-Inducing-Type Mechanically Agitated Contactors: Hydrodynamic Characteristics of Multiple Impellers. <i>Industrial &amp; Engineering Chemistry Research</i> , 1995, 34, 2499-2514.	1.8	32
63	Stability analysis of bubble columns: Predictions for regime transition. <i>Chemical Engineering Science</i> , 2005, 60, 4493-4507.	1.9	32
64	Laser Doppler Anemometer Measurements in Bubble Column: Effect of Sparger. <i>Industrial &amp; Engineering Chemistry Research</i> , 2006, 45, 9201-9207.	1.8	32
65	Computational Fluid Dynamics Simulation and Experimental Investigation: Study of Two-Phase Liquid-Liquid Flow in a Vertical Taylor-Couette Contactor. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 14-28.	1.8	32
66	Study of crystallization and morphology of ammonium diuranate and uranium oxide. <i>Journal of Nuclear Materials</i> , 2012, 424, 94-100.	1.3	32
67	Comparison of $k\epsilon$ , RSM and LES models for the prediction of flow pattern in jet loop reactor. <i>Chemical Engineering Science</i> , 2015, 127, 323-333.	1.9	32
68	Design of stirred vessels with gas entrained from free liquid surface. <i>Canadian Journal of Chemical Engineering</i> , 1998, 76, 339-364.	0.9	31
69	Design of ring and spider type spargers for bubble column reactor: Experimental measurements and CFD simulation of flow and weeping. <i>Chemical Engineering Research and Design</i> , 2009, 87, 1612-1630.	2.7	31
70	Dynamics of Flow Structures and Transport Phenomena, 2. Relationship with Design Objectives and Design Optimization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 8285-8311.	1.8	31
71	Optimisation of vertical axis wind turbine: CFD simulations and experimental measurements. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 1186-1201.	0.9	29
72	Reduction in thermal stratification in two phase natural convection in rectangular tanks: CFD simulations and PIV measurements. <i>Chemical Engineering Science</i> , 2013, 100, 300-325.	1.9	29

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73	Role of sparger design in mechanically agitated gas-liquid reactors. Part I: Power consumption. <i>Chemical Engineering and Technology</i> , 1991, 14, 333-347.	0.9	28
74	Wavelet transform of velocity-time data for the analysis of turbulent structures in a bubble column. <i>Chemical Engineering Science</i> , 2001, 56, 5305-5315.	1.9	27
75	Use of ultrasound in petroleum residue upgradation. <i>Canadian Journal of Chemical Engineering</i> , 2009, 87, 329-342.	0.9	26
76	Axial mixing in annular centrifugal extractors. <i>Chemical Engineering Journal</i> , 2012, 207-208, 462-472.	6.6	26
77	3D CFD simulation of air cooled condenser-I: Natural convection over a circular cylinder. <i>International Journal of Heat and Mass Transfer</i> , 2014, 78, 1265-1283.	2.5	26
78	Power Consumption in Gas-Inducing-Type Mechanically Agitated Contactors. <i>Industrial &amp; Engineering Chemistry Research</i> , 1996, 35, 1583-1602.	1.8	25
79	Simultaneous measurement of flow pattern and mass transfer coefficient in bubble columns. <i>Chemical Engineering Science</i> , 2004, 59, 271-281.	1.9	25
80	Numerical investigation of three-dimensional natural circulation phenomenon in passive safety systems for decay heat removal in large pools. <i>International Journal of Heat and Mass Transfer</i> , 2015, 81, 659-680.	2.5	24
81	Particle-liquid mass transfer in solid-liquid fluidized beds. <i>Chemical Engineering Journal</i> , 2014, 245, 323-341.	6.6	23
82	CFD Simulation of Residence Time Distribution and Mixing in Bubble Column Reactors. <i>Canadian Journal of Chemical Engineering</i> , 2003, 81, 669-676.	0.9	22
83	Analysis of Particle Segregation and Intermixing in Solid-Liquid Fluidized Beds. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 8458-8470.	1.8	22
84	Effect of impeller design and power consumption on crystal size distribution. <i>AICHE Journal</i> , 2014, 60, 3596-3613.	1.8	22
85	Segregation and dispersion studies in binary solid-liquid fluidised beds: A theoretical and computational study. <i>Powder Technology</i> , 2017, 314, 400-411.	2.1	22
86	Development of Correlations for Overall Gas Hold-up, Volumetric Mass Transfer Coefficient, and Effective Interfacial Area in Bubble Column Reactors Using Hybrid Genetic Algorithm-Support Vector Regression Technique: Viscous Newtonian and Non-Newtonian Liquids. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 9631-9654.	1.8	21
87	Investigation of flow structures and transport phenomena in bubble columns using particle image velocimetry and miniature pressure sensors. <i>Chemical Engineering Science</i> , 2011, 66, 3087-3107.	1.9	21
88	Expansion behaviour of a binary solid-liquid fluidised bed with different solid mass ratio. <i>Advanced Powder Technology</i> , 2017, 28, 3111-3129.	2.0	21
89	Computational fluid dynamics. , 2019, , 21-238.		21
90	Development of Efficient Designs of Cooking Systems. II. Computational Fluid Dynamics and Optimization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 1897-1922.	1.8	20

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91	Effect of turbulence on particle and bubble slip velocity. <i>Chemical Engineering Science</i> , 2013, 100, 120-136.	1.9	20
92	Computational Fluid Dynamics Study of Biomass Cook Stoveâ€™Part 1: Hydrodynamics and Homogeneous Combustion. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 4161-4176.	1.8	20
93	Modeling Flow Pattern Induced by Ultrasound:Â The Influence of Modeling Approach and Turbulence Models. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 2936-2950.	1.8	19
94	A hybridized snapshot proper orthogonal decomposition-discrete wavelet transform technique for the analysis of flow structures and their time evolution. <i>Chemical Engineering Science</i> , 2009, 64, 4319-4340.	1.9	19
95	Experimental and computational fluid dynamic study of reacting gas jet in liquid: Flow pattern and heat transfer. <i>Chemical Engineering Science</i> , 2010, 65, 827-849.	1.9	19
96	Study of two phase thermal stratification in cylindrical vessels: CFD simulations and PIV measurements. <i>Chemical Engineering Science</i> , 2013, 98, 125-151.	1.9	19
97	Numerical study of heat loss from a non-evacuated receiver of a solar collector. <i>Energy Conversion and Management</i> , 2014, 78, 617-626.	4.4	19
98	Effect of Flow Structures on Heat Transfer in Single and Multiphase Jet Reactors. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 9428-9440.	1.8	18
99	Role of sparger design in mechanically agitated gas-liquid reactors. Part II: Liquid phase mixing. <i>Chemical Engineering and Technology</i> , 1991, 14, 386-393.	0.9	17
100	Hydrodynamics of a Stirred Vessel Equipped with a Gas-Inducing Impeller. <i>Industrial &amp; Engineering Chemistry Research</i> , 1997, 36, 3904-3914.	1.8	17
101	Direct numerical simulations of a freely falling sphere using fictitious domain method: Breaking of axisymmetric wake. <i>Chemical Engineering Science</i> , 2010, 65, 2159-2171.	1.9	17
102	Hydrodynamic and heat transfer characteristics of a centrally heated cylindrical enclosure: CFD simulations and experimental measurements. <i>Chemical Engineering Research and Design</i> , 2011, 89, 2024-2037.	2.7	17
103	CFD simulation and comparison of industrial crystallizers. <i>Canadian Journal of Chemical Engineering</i> , 2014, 92, 2138-2156.	0.9	17
104	3D CFD simulations to study the effect of inclination of condenser tube on natural convection and thermal stratification in a passive decay heat removal system. <i>Nuclear Engineering and Design</i> , 2016, 305, 582-603.	0.8	17
105	Effect of Schmidt number and D/d ratio on mass transfer through gas-solid and liquid-solid packed beds: Direct numerical simulations. <i>Powder Technology</i> , 2019, 354, 529-539.	2.1	17
106	3D CFD simulation of turbulent flow distribution and pressure drop in a dividing manifold system using openfoam. <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119420.	2.5	17
107	CFD simulation of flow pattern and plume dimensions in submerged condensation and reactive gas jets into a liquid bath. <i>Chemical Engineering Science</i> , 2008, 63, 2420-2435.	1.9	16
108	Lipozyme deactivation by butanol and temperature. <i>Enzyme and Microbial Technology</i> , 1995, 17, 373-380.	1.6	15

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109	HYDRODYNAMIC STUDY OF FLOW IN THE ROTOR REGION OF ANNULAR CENTRIFUGAL CONTACTORS USING CFD SIMULATION. Chemical Engineering Communications, 2013, 200, 471-493.	1.5	15
110	A review on the thermal hydraulic characteristics of the air-cooled heat exchangers in forced convection. Sadhana - Academy Proceedings in Engineering Sciences, 2015, 40, 673-755.	0.8	15
111	Kinetics of reverse water-gas shift reaction over Pt/Al <sub>2</sub> O <sub>3</sub> catalyst. Canadian Journal of Chemical Engineering, 2016, 94, 101-106.	0.9	15
112	Interaction dynamics of a spherical particle with a suspended liquid film. AIChE Journal, 2016, 62, 295-314.	1.8	15
113	Solid Dispersion Studies in Expanded Beds. Industrial & Engineering Chemistry Research, 2007, 46, 1836-1842.	1.8	14
114	Analysis of flow structures and energy spectra in chemical process equipment. Journal of Turbulence, 2010, 11, N5.	0.5	14
115	Evaporation of a sessile binary droplet on a heated spherical particle. Experimental Thermal and Fluid Science, 2018, 99, 558-571.	1.5	14
116	CFD Simulation of Heat Transfer in Turbulent Pipe Flow. Industrial & Engineering Chemistry Research, 2004, 43, 2816-2829.	1.8	12
117	Prediction of regime transition in three-phase sparged reactors using linear stability analysis. Chemical Engineering Journal, 2014, 235, 307-330.	6.6	12
118	Settling/rising of a foreign particle in solid-liquid fluidized beds: Application of dynamic mesh technique. Chemical Engineering Science, 2017, 170, 139-153.	1.9	12
119	Prediction of Flow Pattern in Stirred Tanks: A New Constitutive Equation for Eddy Viscosity. Industrial & Engineering Chemistry Research, 2001, 40, 1755-1772.	1.8	11
120	Effect of nozzle diameter and its orientation on the flow pattern and plume dimensions in gas-liquid jet reactors. Chemical Engineering Science, 2007, 62, 7471-7483.	1.9	11
121	Optimum Design of Multiple-Impeller Self-Inducing System. Industrial & Engineering Chemistry Research, 2003, 42, 1261-1265.	1.8	10
122	Measurement of eddy diffusivity in bubble column and validation based on the intermittency models. Chemical Engineering Science, 2005, 60, 6146-6159.	1.9	10
123	Mechanism of Gas Induction in a Self-Inducing Impeller. Industrial & Engineering Chemistry Research, 2005, 44, 1322-1328.	1.8	10
124	Process intensification in manufacture of nitric acid: NO absorption using enriched and pure oxygen. Chemical Engineering Journal, 2015, 278, 430-446.	6.6	10
125	Experimental and CFD simulations of fluid flow and temperature distribution in a natural circulation driven Passive Moderator Cooling System of an advanced nuclear reactor. Chemical Engineering Science, 2016, 155, 45-64.	1.9	9
126	Study of crystal growth and effect of temperature and mixing on properties of sodium diuranate. Progress in Nuclear Energy, 2016, 91, 132-139.	1.3	9

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127	Dissolution of nuclear materials in aqueous acid solutions. Reviews in Chemical Engineering, 2019, 35, 707-734.	2.3	9
128	A low reynolds number $k\epsilon$ modelling of turbulent pipe flow: Flow pattern and energy balance. Canadian Journal of Chemical Engineering, 2001, 79, 214-226.	0.9	7
129	CFD Simulation of Gas Chamber for Gas Distributor Design. Canadian Journal of Chemical Engineering, 2008, 81, 677-683.	0.9	7
130	Flow and temperature patterns in an inductively coupled plasma reactor: Experimental measurements and CFD simulations. AICHE Journal, 2014, 60, 3647-3664.	1.8	7
131	Study on effect of process parameters and mixing on morphology of ammonium diuranate. Journal of Radioanalytical and Nuclear Chemistry, 2016, 310, 287-299.	0.7	6
132	Cost effective non-evacuated receiver for line-concentrating solar collectors characterized by experimentally validated computational fluid dynamics model. Canadian Journal of Chemical Engineering, 2022, 100, 2259-2278.	0.9	5
133	Computational Fluid Dynamics (CFD) Simulations and Experimental Measurements in an Inductively-Coupled Plasma Generator Operating at Atmospheric Pressure: Performance Analysis and Parametric Study. Processes, 2019, 7, 133.	1.3	4
134	Reply to "Comments on "Dynamics of Flow Structures and Transport Phenomena" Part I: Experimental and Numerical Techniques for Identification and Energy Content of Flow Structures" Industrial & Engineering Chemistry Research, 2010, 49, 4471-4473.	1.8	3
135	Instabilities due to turbulence through inlet jet in plunging jet bubble column. Chemical Engineering Science, 2017, 157, 76-87.	1.9	2
136	Reply to the Comments by I. Fort on "Effect of Internals on the Flow Pattern and Mixing in Stirred Tanks" Industrial & Engineering Chemistry Research, 2006, 45, 4850-4850.	1.8	1
137	CFD model development for two-phase flows. , 2019, , 239-335.		0
138	Segregation and intermixing in polydisperse liquid-solid fluidized beds: A multifluid model validation study. AICHE Journal, 0, , .	1.8	0