# Jyeshtharaj Joshi

### 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.

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#	Paper	IF	Citations
524	Wet Air Oxidation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1995</b> , 34, 2-48	3.9	638
523	Bubble Formation and Bubble Rise Velocity in Gaslliquid Systems: A Review. <i>Industrial &amp; amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 5873-5931	3.9	485
522	Catalytic carbon dioxide hydrogenation to methanol: A review of recent studies. <i>Chemical Engineering Research and Design</i> , <b>2014</b> , 92, 2557-2567	5.5	381
521	Computational flow modelling and design of bubble column reactors. <i>Chemical Engineering Science</i> , <b>2001</b> , 56, 5893-5933	4.4	312
520	CFD simulation of bubble columnAn analysis of interphase forces and turbulence models. <i>Chemical Engineering Journal</i> , <b>2008</b> , 139, 589-614	14.7	251
519	Effect of impeller design on the flow pattern and mixing in stirred tanks. <i>Chemical Engineering Journal</i> , <b>2006</b> , 115, 173-193	14.7	207
518	Mechanically agitated gas-liquid reactors. <i>Chemical Engineering Science</i> , <b>1982</b> , 37, 813-844	4.4	206
517	Kinetics of wet air oxidation of phenol and substituted phenols. Water Research, 1991, 25, 135-145	12.5	162
516	Assessment of standard . Chemical Engineering Science, 2008, 63, 5468-5495	4.4	157
515	CFD simulation of bubble columns incorporating population balance modeling. <i>Chemical Engineering Science</i> , <b>2008</b> , 63, 2267-2282	4.4	155
514	Sparged loop reactors. Canadian Journal of Chemical Engineering, 1990, 68, 705-741	2.3	138
513	Lipase-Catalyzed Esterification. Catalysis Reviews - Science and Engineering, 2000, 42, 439-480	12.6	133
512	CFD simulations of gasIlquidIlolid stirred reactor: Prediction of critical impeller speed for solid suspension. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 7184-7195	4.4	129
511	Mixing in mechanically agitated gas-liquid contactors, bubble columns and modified bubble columns. <i>Chemical Engineering Science</i> , <b>1983</b> , 38, 1189-1215	4.4	128
510	CFD simulation of stirred tanks: Comparison of turbulence models. Part I: Radial flow impellers. <i>Canadian Journal of Chemical Engineering</i> , <b>2011</b> , 89, 23-82	2.3	117
509	Petroleum Residue Upgrading Via Delayed Coking: A Review. <i>Canadian Journal of Chemical Engineering</i> , <b>2007</b> , 85, 1-24	2.3	116
508	Petroleum Residue Upgradation via Visbreaking: A Review. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 8960-8988	3.9	114

## (2011-1988)

507	Critical impeller speed for solid suspension in mechanically agitated contactors. <i>AICHE Journal</i> , <b>1988</b> , 34, 1332-1340	3.6	111
506	FLOW GENERATED BY PITCHED BLADE TURBINES I: MEASUREMENTS USING LASER DOPPLER ANEMOMETER. <i>Chemical Engineering Communications</i> , <b>1989</b> , 81, 197-224	2.2	110
505	Liquid-Phase Mixing in Stirred Vessels: Turbulent Flow Regime. <i>Industrial &amp; Turbulent Regime</i> . <i>Industrial &amp; Turbulent Research</i> , <b>2003</b> , 42, 2661-2698	3.9	99
504	CFD simulations of bubble column reactors: 1D, 2D and 3D approach. <i>Chemical Engineering Science</i> , <b>2005</b> , 60, 6733-6746	4.4	99
503	INVITED REVIEW ABSORPTION OF NOX GASES. Chemical Engineering Communications, 1985, 33, 1-92	2.2	99
502	Characterization of flow phenomena induced by ultrasonic horn. <i>Chemical Engineering Science</i> , <b>2006</b> , 61, 7410-7420	4.4	97
501	Coherent flow structures in bubble column reactors. <i>Chemical Engineering Science</i> , <b>2002</b> , 57, 3157-3183	4.4	96
500	FLOW GENERATED BY PITCHED BLADE TURBINES II: SIMULATION USING AMODEL. <i>Chemical Engineering Communications</i> , <b>1989</b> , 81, 225-248	2.2	95
499	Critical impeller speed for solid suspension in mechanically agitated three-phase reactors. 1. Experimental part. <i>Industrial &amp; Experimental Part. Industrial &amp; I</i>	3.9	93
498	Behaviour of solid particles in viscous non-newtonian solutions: Settling velocity, wall effects and bed expansion in solid-liquid fluidized beds. <i>Powder Technology</i> , <b>1989</b> , 57, 39-50	5.2	91
497	hydrolysis of fatty oils: effect of cavitation. Chemical Engineering Science, 1993, 48, 3440-3442	4.4	90
496	CFD modelling and mixing in stirred tanks. <i>Chemical Engineering Science</i> , <b>1999</b> , 54, 2285-2293	4.4	89
495	Computational Fluid Dynamics for Designing Process Equipment: Expectations, Current Status, and Path Forward. <i>Industrial &amp; Empire Engineering Chemistry Research</i> , <b>2003</b> , 42, 1115-1128	3.9	88
494	Relation between Flow Pattern and Blending in Stirred Tanks. <i>Industrial &amp; Discrete Manage of the Mistry Research</i> , <b>1999</b> , 38, 3131-3143	3.9	88
493	Fluid mechanics and blending in agitated tanks. Chemical Engineering Science, 1991, 46, 1883-1893	4.4	88
492	CFD analysis of flow pattern and heat transfer in direct contact steam condensation. <i>Chemical Engineering Science</i> , <b>2006</b> , 61, 5204-5220	4.4	87
491	Regime transition in bubble columns: experimental and predictions. <i>Experimental Thermal and Fluid Science</i> , <b>2004</b> , 28, 423-430	3	87
490	Fluidized bed synthesis of carbon nanotubes [A review. Chemical Engineering Journal, 2011, 171, 841-86	914.7	86

489	Sorption and permeation of binary water-alcohol systems through PVA membranes crosslinked with multifunctional crosslinking agents. <i>Separation and Purification Technology</i> , <b>1997</b> , 12, 145-156	8.3	86
488	Effect of Sparger Design and Height to Diameter Ratio on Fractional Gas Hold-up in Bubble Columns. <i>Chemical Engineering Research and Design</i> , <b>1998</b> , 76, 823-834	5.5	84
487	Droplet impact dynamics on a spherical particle. <i>Chemical Engineering Science</i> , <b>2013</b> , 100, 105-119	4.4	83
486	A review of the mechanisms and models of bubble-particle detachment in froth flotation. <i>Separation and Purification Technology</i> , <b>2016</b> , 170, 155-172	8.3	77
485	Petroleum coke gasification: A review. Canadian Journal of Chemical Engineering, 2014, 92, 441-468	2.3	76
484	CFD simulation of stirred tanks: Comparison of turbulence models (Part II: Axial flow impellers, multiple impellers and multiphase dispersions). <i>Canadian Journal of Chemical Engineering</i> , <b>2011</b> , 89, 754	- <del>8</del> 46	75
483	Advanced PIV/LIF and shadowgraphy system to visualize flow structure in two-phase bubbly flows. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 2431-2442	4.4	72
482	Development of New Synthetic Membranes for Separation of Benzene©yclohexane Mixtures by Pervaporation: A Solubility Parameter Approach. <i>Industrial &amp; Description of Benzene</i> (1997), 36, 5265-5276	3.9	72
481	Studies on the lipozyme-catalyzed synthesis of butyl laurate. <i>Biotechnology and Bioengineering</i> , <b>1995</b> , 46, 1-12	4.9	72
480	CFD modeling of solidliquid fluidized beds of mono and binary particle mixtures. <i>Chemical Engineering Science</i> , <b>2009</b> , 64, 3641-3658	4.4	71
479	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> , <b>2001</b> , 56, 5037-50	48 <sup>4</sup>	70
478	Cellulase deactivation in a stirred reactor. <i>Biochemical Engineering Journal</i> , <b>2000</b> , 4, 137-141	4.2	70
477	Annular Centrifugal Contactors Review. Chemical Engineering Research and Design, 2006, 84, 522-542	5.5	68
476	Dehydration of acetic acid by pervaporation. <i>Journal of Membrane Science</i> , <b>1998</b> , 138, 1-17	9.6	67
475	Three Phase Sparged Reactors Lome Design Aspects. Reviews in Chemical Engineering, <b>1984</b> , 2, 1-84	5	67
474	Mass transfer and hydrodynamic characteristics of gas inducing type of agitated contactors. <i>Canadian Journal of Chemical Engineering</i> , <b>1977</b> , 55, 683-695	2.3	66
473	Analysis of flow through an orifice meter: CFD simulation. <i>Chemical Engineering Science</i> , <b>2012</b> , 71, 300-3	о <u>р</u> 4	63
472	On the development of flow pattern in a bubble column reactor: Experiments and CFD. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 1049-1072	4.4	62

#### (2008-1999)

471	CFD simulation of bubble column reactors: importance of drag force formulation. <i>Chemical Engineering Science</i> , <b>1999</b> , 54, 5055-5060	4.4	62
47°	Shear deactivation of cellulase, exoglucanase, endoglucanase, and beta-glucosidase in a mechanically agitated reactor. <i>Biotechnology Progress</i> , <b>2001</b> , 17, 1166-8	2.8	61
469	Design of a gas distributor: Three-dimensional CFD simulation of a coupled system consisting of a gas chamber and a bubble column. <i>Chemical Engineering Journal</i> , <b>2007</b> , 125, 149-163	14.7	60
468	Criteria for the transition from the homogeneous to the heterogeneous regime in two-dimensional bubble column reactors. <i>International Journal of Multiphase Flow</i> , <b>1992</b> , 18, 705-726	3.6	60
467	CFD simulations of a bubble column with and without internals by using OpenFOAM. <i>Chemical Engineering Journal</i> , <b>2017</b> , 317, 157-174	14.7	58
466	Pervaporative Dehydration of Organic Solvents. Separation Science and Technology, 1997, 32, 1335-134	92.5	58
465	Investigation of flow and temperature patterns in direct contact condensation using PIV, PLIF and CFD. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 4606-4620	4.4	57
464	Comparison of axial flow impellers using a laser Doppler anemometer. <i>Industrial &amp; Doppler anemometer</i> . <i>Industrial &amp; Dop</i>	3.9	57
463	Role of hydrodynamic shear in the cultivation of animal, plant and microbial cells. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , <b>1996</b> , 62, 121-141		56
462	Regeneration of spent activated carbon by wet air oxidation. <i>Canadian Journal of Chemical Engineering</i> , <b>1991</b> , 69, 1149-1159	2.3	56
461	HEAT TRANSFER IN MULTIPHASE CONTACTORS. Chemical Engineering Communications, 1980, 6, 257-27	<b>1</b> 2.2	56
460	Use of Hydrodynamic Cavitation for Large Scale Microbial Cell Disruption. <i>Food and Bioproducts Processing</i> , <b>1997</b> , 75, 41-49	4.9	55
459	Kinetics of reactions between carbon dioxide and alkanolamines. <i>Separation and Purification Technology</i> , <b>1988</b> , 2, 50-64		55
458	A review of CFD modelling studies on the flotation process. <i>Minerals Engineering</i> , <b>2018</b> , 127, 153-177	4.9	54
457	Design of Gas-Inducing Reactors. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 49-80	3.9	54
456	Microbial cell disruption: role of cavitation. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , <b>1994</b> , 55, B67-B72		54
455	CFD Simulation of Bubble Column Reactor Using Population Balance. <i>Industrial &amp; Discourse Industrial &amp; Discourse I</i>	3.9	53
454	CFD modeling of pressure drop and drag coefficient in fixed and expanded beds. <i>Chemical Engineering Research and Design</i> , <b>2008</b> , 86, 444-453	5.5	53

453	INVITED REVIEW HYDRODYNAMIC AND MIXING MODELS FOR BUBBLE COLUMN REACTORS. <i>Chemical Engineering Communications</i> , <b>1981</b> , 11, 165-199	2.2	53
452	High Performance Fibers from Carbon Nanotubes: Synthesis, Characterization, and Applications in Composites Review. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 12407-12437	3.9	52
451	Analysis of flow pattern and heat transfer in direct contact condensation. <i>Chemical Engineering Science</i> , <b>2009</b> , 64, 1719-1738	4.4	52
450	Two-Dimensional CFD Model for the Prediction of Flow Pattern, Pressure Drop and Heat Transfer Coefficient in Bubble Column Reactors. <i>Chemical Engineering Research and Design</i> , <b>2004</b> , 82, 689-707	5.5	52
449	Measurement of Gas Hold-Up Profiles by Gamma Ray Tomography. <i>Chemical Engineering Research and Design</i> , <b>1999</b> , 77, 303-317	5.5	52
448	CFD simulations of shell-side flow in a shell-and-tube type heat exchanger with and without baffles. <i>Chemical Engineering Science</i> , <b>2016</b> , 143, 314-340	4.4	51
447	Dynamics of Flow Structures and Transport Phenomena, 1. Experimental and Numerical Techniques for Identification and Energy Content of Flow Structures. <i>Industrial &amp; Discrete Engineering Chemistry Research</i> , <b>2009</b> , 48, 8244-8284	3.9	51
446	Specificity of a Lipase in Ester Synthesis: Effect of Alcohol. <i>Biotechnology Progress</i> , <b>1995</b> , 11, 282-287	2.8	51
445	Solar thermal technologies as a bridge from fossil fuels to renewables. <i>Nature Climate Change</i> , <b>2015</b> , 5, 1007-1013	21.4	49
444	Comparative evaluation of hydrogen storage behavior of Pd doped carbon nanotubes prepared by wet impregnation and polyol methods. <i>International Journal of Hydrogen Energy</i> , <b>2015</b> , 40, 3268-3276	6.7	49
443	CFD simulation of sparger design and height to diameter ratio on gas hold-up profiles in bubble column reactors. <i>Experimental Thermal and Fluid Science</i> , <b>2004</b> , 28, 407-421	3	49
442	Liquid phase backmixing in sparged contactors. Canadian Journal of Chemical Engineering, 1978, 56, 116	5-1.39	49
441	Submerged Gas Jet into a Liquid Bath:□A Review. <i>Industrial &amp; Discourse Industrial &amp; Discourse Industry Research</i> , <b>2007</b> , 46, 3188-3218	3.9	48
440	LIQUID PHASE MIXING IN MECHANICALLY AGITATED VESSELS. <i>Chemical Engineering Communications</i> , <b>1988</b> , 74, 1-25	2.2	48
439	Analysis of dominant flow structures and their flow dynamics in chemical process equipment using snapshot proper orthogonal decomposition technique. <i>Chemical Engineering Science</i> , <b>2008</b> , 63, 3695-37	′1 <del>′</del> 5 <sup>′4</sup>	47
438	Kinetics of Oxidation of Benzyl Alcohol with Dilute Nitric Acid. <i>Industrial &amp; amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 325-333	3.9	47
437	Hydrodynamic stability of multiphase reactors. Advances in Chemical Engineering, 2001, 1-130	0.6	47
436	Effect of fine particles on gas hold-up in three-phase sparged reactors. <i>The Chemical Engineering Journal</i> , <b>1990</b> , 44, 11-25		45

435	CFD modeling of pressure drop and drag coefficient in fixed beds: Wall effects. <i>Particuology</i> , <b>2010</b> , 8, 37-43	2.8	44	
434	Insight into Theories of Heat and Mass Transfer at the Solid <b>E</b> luid Interface Using Direct Numerical Simulation and Large Eddy Simulation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 8525	5-8 <b>3</b> 57	42	
433	Gas hold-up behavior of mechanically agitated gas-liquid reactors using pitched blade downflow turbines. <i>Canadian Journal of Chemical Engineering</i> , <b>1993</b> , 71, 226-237	2.3	42	
432	Development and validation of a new drag law using mechanical energy balance approach for DEMITFD simulation of gasBolid fluidized bed. <i>Chemical Engineering Journal</i> , <b>2016</b> , 302, 395-405	14.7	41	
431	Performance analysis of a novel and cost effective CPC system. <i>Energy Conversion and Management</i> , <b>2013</b> , 66, 56-65	10.6	41	
430	Sorption and permeation of acetic acid through zeolite filled membrane. <i>Journal of Membrane Science</i> , <b>1995</b> , 107, 23-33	9.6	41	
429	Hydrodynamics and mixing in highly viscous pseudo-plastic non-newtonian solutions in bubble columns. <i>Chemical Engineering Science</i> , <b>1986</b> , 41, 2321-2331	4.4	41	
428	Pressure and flow distribution in pipe and ring spargers: Experimental measurements and CFD simulation. <i>Chemical Engineering Journal</i> , <b>2007</b> , 133, 173-186	14.7	40	
427	Modeling and simulation of NOX absorption in pilot-scale packed columns. AICHE Journal, 1991, 37, 32	:3- <b>3.8</b> 9	40	
426	Cost effective design of compound parabolic collector for steam generation. <i>Solar Energy</i> , <b>2013</b> , 90, 43	<b>3-50</b> 8	39	
425	CFD simulation for steam distribution in header and tube assemblies. <i>Chemical Engineering Research and Design</i> , <b>2012</b> , 90, 487-506	5.5	39	
424	Large Eddy Simulation for Dispersed Bubbly Flows: A Review. <i>International Journal of Chemical Engineering</i> , <b>2013</b> , 2013, 1-22	2.2	39	
423	Residence Time Distribution and Flow Patterns in the Single-Phase Annular Region of Annular Centrifugal Extractor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 37-46	3.9	39	
422	CFD Simulation of Flow and Axial Dispersion in External Loop Airlift Reactor. <i>Chemical Engineering Research and Design</i> , <b>2006</b> , 84, 677-690	5.5	39	
421	Kinetic Studies of Low Severity Visbreaking. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 1373-1387	3.9	39	
420	Enzyme and protein mass transfer coefficient in aqueous two-phase systems Spray extraction columns. Chemical Engineering Science, 1992, 47, 57-68	4.4	39	
419	EFFECT OF IMPELLER DESIGN ON LIQUID PHASE MIXING IN MECHANICALLY AGITATED REACTORS. <i>Chemical Engineering Communications</i> , <b>1991</b> , 102, 1-33	2.2	39	
418	Segregation and dispersion of binary solids in liquid fluidised beds: A CFD-DEM study. <i>Chemical Engineering Science</i> , <b>2016</b> , 152, 65-83	4.4	39	

417	Void fraction, bubble size and interfacial area measurements in co-current downflow bubble column reactor with microbubble dispersion. <i>Chemical Engineering Science</i> , <b>2017</b> , 168, 403-413	4.4	38
416	3D CFD simulations of air cooled condenser-III: Thermalflydraulic characteristics and design optimization under forced convection conditions. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 93, 1227-1247	4.9	38
415	Dispersed phase hold-up, effective interfacial area and Sauter mean drop diameter in annular centrifugal extractors. <i>Chemical Engineering Research and Design</i> , <b>2009</b> , 87, 1379-1389	5.5	38
414	Hollow self-inducing impellers: Flow visualization and CFD simulation. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 3839-3848	4.4	38
413	CFD modeling of heat transfer in turbulent pipe flows. AICHE Journal, 2000, 46, 1798-1812	3.6	38
412	CFD simulation of heat transfer in a two-dimensional vertical enclosure. <i>Chemical Engineering Research and Design</i> , <b>2009</b> , 87, 711-727	5.5	37
411	Studies in Coking of Arabian Mix Vacuum Residue. <i>Chemical Engineering Research and Design</i> , <b>2007</b> , 85, 481-491	5.5	37
410	Axial mixing in laminar pipe flows. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 3929-3944	4.4	37
409	Effect of flow pattern on cellulase deactivation in stirred tank bioreactors. <i>Chemical Engineering Science</i> , <b>2005</b> , 60, 1067-1083	4.4	37
408	POWER CONSUMPTION IN MECHANICALLY AGITATED CONTACTORS USING PITCHED BLADED TURBINE IMPELLERS. <i>Chemical Engineering Communications</i> , <b>1990</b> , 88, 69-90	2.2	37
407	Computational Modeling of Multiphase Reactors. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2015</b> , 6, 347-78	8.9	36
406	Kinetics of cooking of rice: A review. <i>Journal of Food Engineering</i> , <b>2014</b> , 123, 113-129	6	36
405	Design and selection of sparger for bubble column reactor. Part I: Performance of different spargers. <i>Chemical Engineering Research and Design</i> , <b>2011</b> , 89, 1972-1972	5.5	36
404	Computational Flow Modeling and Visualization in the Annular Region of Annular Centrifugal Extractor. <i>Industrial &amp; Extractor and Section 2007</i> , 46, 8343-8354	3.9	36
403	Development of support vector regression (SVR)-based correlation for prediction of overall gas hold-up in bubble column reactors for various gasIlquid systems. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 7078-7089	4.4	36
402	Identification and characterization of flow structures in chemical process equipment using multiresolution techniques. <i>Chemical Engineering Science</i> , <b>2008</b> , 63, 5330-5346	4.4	36
401	Hydrodynamic and mass transfer characteristics of annular centrifugal extractors. <i>Chemical Engineering Research and Design</i> , <b>2008</b> , 86, 233-244	5.5	36
400	Unified model for NOX absorption in aqueous alkaline and dilute acidic solutions. <i>AICHE Journal</i> , <b>2003</b> , 49, 2728-2748	3.6	36

399	Simulation of Flow in Stirred Vessel with Axial Flow Impeller: Zonal Modeling and Optimization of Parameters. <i>Industrial &amp; Dame Engineering Chemistry Research</i> , <b>1998</b> , 37, 2116-2130	3.9	36
398	Gas Inducing Type Mechanically Agitated Contactors. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1994</b> , 33, 2226-2241	3.9	36
397	On wetting characteristics of droplet on a spherical particle in film boiling regime. <i>Chemical Engineering Science</i> , <b>2016</b> , 149, 181-203	4.4	36
396	Comparative analysis of liquid hydrodynamics in a co-current flow-through bubble column with densely packed internals via radiotracing and Radioactive Particle Tracking (RPT). <i>Chemical Engineering Science</i> , <b>2017</b> , 170, 332-346	4.4	35
395	A comparison of thermal-hydraulic performance of various fin patterns using 3D CFD simulations. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 109, 336-356	4.9	35
394	Computational fluid dynamic modelling of FCC riser: A review. <i>Chemical Engineering Research and Design</i> , <b>2016</b> , 111, 403-448	5.5	35
393	Liquid phase axial mixing in solid[Iquid circulating multistage fluidized bed: CFD modeling and RTD measurements. <i>Chemical Engineering Journal</i> , <b>2012</b> , 191, 475-490	14.7	35
392	Axial mixing in pipe flows: turbulent and transition regions. <i>Chemical Engineering Science</i> , <b>2003</b> , 58, 27	15424724	<b>1</b> 35
391	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> , <b>1995</b> , 34, 626-639	3.9	35
390	Turbulent shear stressEffect on mammalian cell culture and measurement using laser Doppler anemometer. <i>Chemical Engineering Science</i> , <b>1995</b> , 50, 2431-2440	4.4	35
389	Experimental study on bubble departure characteristics in subcooled nucleate pool boiling. <i>International Journal of Multiphase Flow</i> , <b>2017</b> , 89, 163-176	3.6	34
388	Two phase natural convection: CFD simulations and PIV measurement. <i>Chemical Engineering Science</i> , <b>2011</b> , 66, 3152-3171	4.4	34
387	Hollow self-inducing impellers for gasIlquidBolid dispersion: Experimental and computational study. <i>Chemical Engineering Journal</i> , <b>2008</b> , 141, 332-345	14.7	34
386	Critical impeller speed for the onset of gas induction in gas-inducing types of agitated contactors. <i>The Chemical Engineering Journal</i> , <b>1979</b> , 18, 87-91		34
385	Effect of Internals on the Flow Pattern and Mixing in Stirred Tanks. <i>Industrial &amp; Discourse Industrial &amp; Discours</i>	3.9	33
384	Role of hydrodynamic shear on activity and structure of proteins. <i>Advances in Biochemical Engineering/Biotechnology</i> , <b>1998</b> , 59, 47-71	1.7	33
383	Bubble generated turbulence and direct numerical simulations. <i>Chemical Engineering Science</i> , <b>2017</b> , 157, 26-75	4.4	32
382	Comparison of turbulence models for bubble column reactors. <i>Chemical Engineering Science</i> , <b>2017</b> , 164, 34-52	4.4	32

381	Some industrial applications of gamma-ray tomography. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2009</b> , 40, 602-612	5.3	32
<b>3</b> 80	Dehydration of ethylene glycol by pervaporation using hydrophilic IPNs of PVA, PAA and PAAM membranes. <i>Separation and Purification Technology</i> , <b>1998</b> , 13, 47-56	8.3	32
379	Determination of bubble size distributions in bubble columns using LDA. AICHE Journal, 2004, 50, 3068-	-3,084	32
378	Rice bran lipase: extraction, activity, and stability. <i>Biotechnology Progress</i> , <b>1999</b> , 15, 1083-9	2.8	32
377	Gas phase dispersion in bubble columns. <i>The Chemical Engineering Journal</i> , <b>1982</b> , 24, 213-216		32
376	Interaction of bubbles rising inline in quiescent liquid. Chemical Engineering Science, 2017, 166, 1-10	4.4	31
375	Collision behaviour of a smaller particle into a larger stationary droplet. <i>Advanced Powder Technology</i> , <b>2015</b> , 26, 280-295	4.6	31
374	Dynamics of Flow Structures and Transport Phenomena, 2. Relationship with Design Objectives and Design Optimization. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 8285-8311	3.9	31
373	Flow Visualization and Three-Dimensional CFD Simulation of the Annular Region of an Annular Centrifugal Extractor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2008</b> , 47, 3677-3686	3.9	31
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210	Analysis of flow structures and energy spectra in chemical process equipment. <i>Journal of Turbulence</i> , <b>2010</b> , 11, N5	.1	12
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