

Aniruddha B Pandit

List of Publications by Year in descending order

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290
papers

20,234
citations

8159

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docs citations

296
times ranked

14317
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of imperative technologies for wastewater treatment I: oxidation technologies at ambient conditions. <i>Journal of Environmental Management</i> , 2004, 8, 501-551.	1.7	1,614
2	A critical review on textile wastewater treatments: Possible approaches. <i>Journal of Environmental Management</i> , 2016, 182, 351-366.	3.8	1,364
3	A review of imperative technologies for wastewater treatment II: hybrid methods. <i>Journal of Environmental Management</i> , 2004, 8, 553-597.	1.7	770
4	Sonochemical reactors: Important design and scale up considerations with a special emphasis on heterogeneous systems. <i>Chemical Engineering Journal</i> , 2011, 166, 1066-1082.	6.6	449
5	Wastewater treatment: a novel energy efficient hydrodynamic cavitation technique. <i>Ultrasonics Sonochemistry</i> , 2002, 9, 123-131.	3.8	266
6	Cavitation reactors: Efficiency assessment using a model reaction. <i>AIChE Journal</i> , 2001, 47, 2526-2538.	1.8	264
7	A review and assessment of hydrodynamic cavitation as a technology for the future. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 21-27.	3.8	259
8	Ultrasound enhanced degradation of Rhodamine B: optimization with power density. <i>Ultrasonics Sonochemistry</i> , 2001, 8, 233-240.	3.8	251
9	Correlations to predict droplet size in ultrasonic atomisation. <i>Ultrasonics</i> , 2001, 39, 235-255.	2.1	239
10	HYDRODYNAMIC CAVITATION REACTORS: A STATE OF THE ART REVIEW. <i>Reviews in Chemical Engineering</i> , 2001, 17, 1-85.	2.3	225
11	Ultrasound emulsification: Effect of ultrasonic and physicochemical properties on dispersed phase volume and droplet size. <i>Ultrasonics Sonochemistry</i> , 2008, 15, 554-563.	3.8	225
12	Degradation of Reactive Red 120 dye using hydrodynamic cavitation. <i>Chemical Engineering Journal</i> , 2011, 178, 100-107.	6.6	225
13	Engineering design methods for cavitation reactors II: Hydrodynamic cavitation. <i>AIChE Journal</i> , 2000, 46, 1641-1649.	1.8	208
14	Mapping of sonochemical reactors: Review, analysis, and experimental verification. <i>AIChE Journal</i> , 2002, 48, 1542-1560.	1.8	200
15	Ultrasonic atomization: Effect of liquid phase properties. <i>Ultrasonics</i> , 2006, 44, 146-158.	2.1	194
16	Intensification Approaches for Biodiesel Synthesis from Waste Cooking Oil: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 14610-14628.	1.8	181
17	Kinetics of p-nitrophenol degradation: effect of reaction conditions and cavitation parameters for a multiple frequency system. <i>Chemical Engineering Journal</i> , 2002, 85, 327-338.	6.6	179
18	Intensification of esterification of acids for synthesis of biodiesel using acoustic and hydrodynamic cavitation. <i>Ultrasonics Sonochemistry</i> , 2008, 15, 188-194.	3.8	165

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19	Sonochemical reactors: scale up aspects. <i>Ultrasonics Sonochemistry</i> , 2004, 11, 105-117.	3.8	163
20	Sonophotocatalytic reactors for wastewater treatment: A critical review. <i>AIChE Journal</i> , 2004, 50, 1051-1079.	1.8	160
21	Multiple-impeller systems with a special emphasis on bioreactors: a critical review. <i>Biochemical Engineering Journal</i> , 2000, 6, 109-144.	1.8	156
22	Hydrodynamic cavitation for sonochemical effects. <i>Ultrasonics Sonochemistry</i> , 1999, 6, 53-65.	3.8	153
23	Ultrasound assisted synthesis of doped TiO ₂ nano-particles: Characterization and comparison of effectiveness for photocatalytic oxidation of dyestuff effluent. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 277-286.	3.8	152
24	Some aspects of the design of sonochemical reactors. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 325-330.	3.8	150
25	Hydrodynamic Cavitation as an Advanced Oxidation Technique for the Degradation of Acid Red 88 Dye. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 1981-1989.	1.8	149
26	Optimization of biodiesel production in a hydrodynamic cavitation reactor using used frying oil. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 322-328.	3.8	144
27	Sonophotochemical destruction of aqueous solution of 2,4,6-trichlorophenol. <i>Ultrasonics Sonochemistry</i> , 1998, 5, 53-61.	3.8	142
28	Petroleum Residue Upgradation via Visbreaking: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 8960-8988.	1.8	142
29	Engineering design method for cavitation reactors: I. Sonochemical reactors. <i>AIChE Journal</i> , 2000, 46, 372-379.	1.8	141
30	Mapping the cavitation intensity in an ultrasonic bath using the acoustic emission. <i>AIChE Journal</i> , 2000, 46, 684-694.	1.8	141
31	Effect of additives on ultrasonic degradation of phenol. <i>Ultrasonics Sonochemistry</i> , 2006, 13, 165-174.	3.8	140
32	Degradation of reactive orange 4 dye using hydrodynamic cavitation based hybrid techniques. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1075-1082.	3.8	138
33	Phase transformation of nanostructured titanium dioxide from anatase-to-rutile via combined ultrasound assisted sol-gel technique. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 409-415.	3.8	137
34	Energy Analysis in Acoustic Cavitation. <i>Industrial & Engineering Chemistry Research</i> , 2000, 39, 1480-1486.	1.8	132
35	Room temperature synthesis of crystalline CeO ₂ nanopowder: Advantage of sonochemical method over conventional method. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 1118-1123.	3.8	128
36	A review on heterogeneous sonocatalyst for treatment of organic pollutants in aqueous phase based on catalytic mechanism. <i>Ultrasonics Sonochemistry</i> , 2018, 45, 29-49.	3.8	126

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37	Bubble behavior in hydrodynamic cavitation: Effect of turbulence. <i>AIChE Journal</i> , 1997, 43, 1641-1648.	1.8	123
38	Modeling Hydrodynamic Cavitation. <i>Chemical Engineering and Technology</i> , 1999, 22, 1017-1027.	0.9	122
39	Modelling and experimental investigation into cavity dynamics and cavitation yield: influence of dual frequency ultrasound sources. <i>Chemical Engineering Science</i> , 2002, 57, 4987-4995.	1.9	122
40	Sonocrystallization: Effect on lactose recovery and crystal habit. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 143-152.	3.8	122
41	Effect of geometry of hydrodynamically cavitating device on degradation of orange-G. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 345-353.	3.8	122
42	Computational Fluid Dynamics Simulation of the Solid Suspension in a Stirred Slurry Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 4416-4428.	1.8	120
43	Characterization of flow phenomena induced by ultrasonic horn. <i>Chemical Engineering Science</i> , 2006, 61, 7410-7420.	1.9	120
44	Optimization of Hydrodynamic Cavitation Using a Model Reaction. <i>Chemical Engineering and Technology</i> , 2000, 23, 683-690.	0.9	119
45	Synergetic effect of combination of AOP's (hydrodynamic cavitation and H ₂ O ₂) on the degradation of neonicotinoid class of insecticide. <i>Journal of Hazardous Materials</i> , 2013, 261, 139-147.	6.5	119
46	Cavitation – A novel technique for making stable nano-suspensions. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 519-530.	3.8	118
47	Hydrodynamic cavitation as a novel approach for wastewater treatment in wood finishing industry. <i>Separation and Purification Technology</i> , 2013, 106, 15-21.	3.9	117
48	Ultrasound assisted interesterification of waste cooking oil and methyl acetate for biodiesel and triacetin production. <i>Fuel Processing Technology</i> , 2013, 116, 241-249.	3.7	116
49	Hydrodynamic cavitation: an emerging technology for the intensification of various chemical and physical processes in a chemical process industry. <i>Reviews in Chemical Engineering</i> , 2017, 33, .	2.3	115
50	Sonochemical reactors for waste water treatment: comparison using formic acid degradation as a model reaction. <i>Journal of Environmental Management</i> , 2003, 7, 283-299.	1.7	113
51	Ultrasonic degradation of 2:4:6 trichlorophenol in presence of TiO ₂ catalyst. <i>Ultrasonics Sonochemistry</i> , 2001, 8, 227-231.	3.8	112
52	Synthesis of exfoliated poly(styrene-co-methyl methacrylate)/montmorillonite nanocomposite using ultrasound assisted in situ emulsion copolymerization. <i>Chemical Engineering Journal</i> , 2012, 181-182, 770-778.	6.6	112
53	Intensified synthesis of biodiesel using hydrodynamic cavitation reactors based on the interesterification of waste cooking oil. <i>Fuel</i> , 2014, 137, 285-292.	3.4	110
54	Ultrasound pre-treatment for enhanced biodegradability of the distillery wastewater. <i>Ultrasonics Sonochemistry</i> , 2004, 11, 197-203.	3.8	109

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55	Investigations into ultrasound induced atomization. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 254-264.	3.8	109
56	Gas-liquid mass transfer studies with triple impeller system on a laboratory scale bioreactor. <i>Biochemical Engineering Journal</i> , 2005, 23, 25-30.	1.8	106
57	Cavitation milling of natural cellulose to nanofibrils. <i>Ultrasonics Sonochemistry</i> , 2010, 17, 845-852.	3.8	106
58	Ultrasound and deep eutectic solvent (DES): A novel blend of techniques for rapid and energy efficient synthesis of oxazoles. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 287-293.	3.8	106
59	Comments on the Mechanism of Microbial Cell Disruption in High-Pressure and High-Speed Devices. <i>Biotechnology Progress</i> , 1998, 14, 657-660.	1.3	104
60	Ultrasound assisted transesterification of waste cooking oil using heterogeneous solid catalyst. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 278-286.	3.8	104
61	Ultrasonic hyperactivation of cellulase immobilized on magnetic nanoparticles. <i>Bioresource Technology</i> , 2017, 239, 117-126.	4.8	103
62	Hydrodynamic cavitation as a novel approach for delignification of wheat straw for paper manufacturing. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 162-168.	3.8	96
63	Large-scale sonochemical reactors for process intensification: design and experimental validation. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 685-693.	1.6	94
64	Hydrodynamic cavitation: an advanced oxidation process for the degradation of bio-refractory pollutants. <i>Reviews in Chemical Engineering</i> , 2016, 32, .	2.3	93
65	Hydrodynamics of the rupture of thin liquid films. <i>Journal of Fluid Mechanics</i> , 1990, 212, 11.	1.4	92
66	Ultrasound Assisted Miniemulsion Polymerization for Preparation of Polypyrrole-Zinc Oxide (PPy/ZnO) Functional Latex for Liquefied Petroleum Gas Sensing. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 7704-7712.	1.8	92
67	Ultrasound-Assisted Synthesis of Biodiesel from Palm Fatty Acid Distillate. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 7923-7927.	1.8	90
68	Synthesis of titanium dioxide by ultrasound assisted sol-gel technique: Effect of amplitude (power) T_j $ETQq000rgBT/Overlock10TF$	3.8	90
69	Improved synthesis of sophorolipids from waste cooking oil using fed batch approach in the presence of ultrasound. <i>Chemical Engineering Journal</i> , 2015, 263, 479-487.	6.6	88
70	Hybrid cavitation methods for water disinfection: simultaneous use of chemicals with cavitation. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 255-264.	3.8	87
71	The CFD driven optimisation of a modified venturi for cavitation activity. <i>Canadian Journal of Chemical Engineering</i> , 2011, 89, 1366-1375.	0.9	87
72	Mapping the efficacy of new designs for large scale sonochemical reactors. <i>Ultrasonics Sonochemistry</i> , 2007, 14, 538-544.	3.8	86

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73	Mixing time analysis of a sonochemical reactor. <i>Ultrasonics Sonochemistry</i> , 2001, 8, 23-33.	3.8	84
74	Mapping of an ultrasonic horn: link primary and secondary effects of ultrasound. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 331-335.	3.8	83
75	Ultrasound assisted manufacturing of paraffin wax nanoemulsions: Process optimization. <i>Ultrasonics Sonochemistry</i> , 2015, 23, 201-207.	3.8	79
76	Investigation of TiO ₂ photocatalyst performance for decolorization in the presence of hydrodynamic cavitation as hybrid AOP. <i>Ultrasonics Sonochemistry</i> , 2016, 28, 150-160.	3.8	79
77	Synthesis and characterization of samarium and nitrogen doped TiO ₂ photocatalysts for photo-degradation of 4-acetamidophenol in combination with hydrodynamic and acoustic cavitation. <i>Separation and Purification Technology</i> , 2019, 209, 254-269.	3.9	79
78	Ultrasound assisted synthesis of isopropyl esters from palm fatty acid distillate. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 345-350.	3.8	77
79	Analysis of semibatch emulsion polymerization: Role of ultrasound and initiator. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 97-103.	3.8	77
80	Kinetics of biological decolorisation of anthraquinone based Reactive Blue 19 using an isolated strain of <i>Enterobacter</i> sp.F NCIM 5545. <i>Bioresource Technology</i> , 2014, 173, 342-351.	4.8	76
81	Treatment of the pesticide industry effluent using hydrodynamic cavitation and its combination with process intensifying additives (H ₂ O ₂ and ozone). <i>Chemical Engineering Journal</i> , 2016, 295, 326-335.	6.6	76
82	Degradation of methylene blue dye in aqueous solution using hydrodynamic cavitation based hybrid advanced oxidation processes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 122, 288-295.	1.8	76
83	Ultrasound and enzyme assisted biodegradation of distillery wastewater. <i>Journal of Environmental Management</i> , 2006, 80, 36-46.	3.8	74
84	Modeling the shear rate and pressure drop in a hydrodynamic cavitation reactor with experimental validation based on KI decomposition studies. <i>Ultrasonics Sonochemistry</i> , 2015, 22, 272-277.	3.8	74
85	Survey of measurement techniques for gas-liquid mass transfer coefficient in bioreactors. <i>Biochemical Engineering Journal</i> , 1999, 4, 7-15.	1.8	73
86	Enzymatic hydrolysis of castor oil: Process intensification studies. <i>Biochemical Engineering Journal</i> , 2006, 31, 31-41.	1.8	71
87	Combination of ozonation with conventional aerobic oxidation for distillery wastewater treatment. <i>Chemosphere</i> , 2007, 68, 32-41.	4.2	70
88	Optimization of multiple-frequency sonochemical reactors. <i>Chemical Engineering Science</i> , 2004, 59, 4991-4998.	1.9	69
89	Destruction of phenol using sonochemical reactors: scale up aspects and comparison of novel configuration with conventional reactors. <i>Separation and Purification Technology</i> , 2004, 34, 25-34.	3.9	68
90	Cavitationally induced biodegradability enhancement of a distillery wastewater. <i>Journal of Hazardous Materials</i> , 2012, 219-220, 69-74.	6.5	68

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91	Ultrasound and ozone assisted biological degradation of thermally pretreated and anaerobically pretreated distillery wastewater. <i>Chemosphere</i> , 2007, 68, 42-50.	4.2	67
92	Rapid lactose recovery from paneer whey using sonocrystallization: A process optimization. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007, 46, 846-850.	1.8	66
93	Review on Mixing Characteristics in Solid-Liquid and Solid-Liquid-Gas Reactor Vessels. <i>Canadian Journal of Chemical Engineering</i> , 2005, 83, 618-643.	0.9	66
94	Synthesis of zirconium dioxide by ultrasound assisted precipitation: Effect of calcination temperature. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 1128-1137.	3.8	66
95	A review on sonoelectrochemical technology as an upcoming alternative for pollutant degradation. <i>Ultrasonics Sonochemistry</i> , 2015, 27, 210-234.	3.8	66
96	Ultrasound assisted preparation of emulsion of coconut oil in water: Understanding the effect of operating parameters and comparison of reactor designs. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 88, 70-77.	1.8	66
97	Effect of cavitation on chemical disinfection efficiency. <i>Water Research</i> , 2004, 38, 2249-2258.	5.3	65
98	Intensification of degradation of methomyl (carbamate group pesticide) by using the combination of ultrasonic cavitation and process intensifying additives. <i>Ultrasonics Sonochemistry</i> , 2016, 31, 135-142.	3.8	65
99	A Sonophotochemical Reactor for the Removal of Formic Acid from Wastewater. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 3370-3378.	1.8	64
100	Intensification of degradation of imidacloprid in aqueous solutions by combination of hydrodynamic cavitation with various advanced oxidation processes (AOPs). <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 850-857.	3.3	63
101	Synergistic effect of ultrasonication and co-immobilized enzymes on tomato peels for lycopene extraction. <i>Ultrasonics Sonochemistry</i> , 2018, 48, 453-462.	3.8	63
102	Destruction of Rhodamine B using novel sonochemical reactor with capacity of 7.5 l. <i>Separation and Purification Technology</i> , 2004, 34, 13-24.	3.9	61
103	Laccase immobilized peroxidase mimicking magnetic metal organic frameworks for industrial dye degradation. <i>Bioresource Technology</i> , 2020, 317, 124035.	4.8	61
104	Effect of process intensifying parameters on the hydrodynamic cavitation based degradation of commercial pesticide (methomyl) in the aqueous solution. <i>Ultrasonics Sonochemistry</i> , 2016, 28, 283-293.	3.8	60
105	Sonochemical effect induced by hydrodynamic cavitation: Comparison of venturi/orifice flow geometries. <i>AIChE Journal</i> , 2017, 63, 4705-4716.	1.8	60
106	Oscillating bubble concentration and its size distribution using acoustic emission spectra. <i>Ultrasonics Sonochemistry</i> , 2009, 16, 105-115.	3.8	59
107	Kinetic Modelling of Colour Degradation in Tomato Puree (<i>Lycopersicon esculentum</i> L.). <i>Food and Bioprocess Technology</i> , 2011, 4, 781-787.	2.6	59
108	Studies in multiple impeller agitated gas-liquid contactors. <i>Chemical Engineering Science</i> , 2006, 61, 489-504.	1.9	57

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109	Modeling of hydrodynamic cavitation reactors based on orifice plates considering hydrodynamics and chemical reactions occurring in bubble. <i>Chemical Engineering Journal</i> , 2008, 143, 201-209.	6.6	56
110	Ultrasound-Assisted Antisolvent Crystallization of Benzoic Acid: Effect of Process Variables Supported by Theoretical Simulations. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17573-17582.	1.8	55
111	Sustained release formulations of citronella oil nanoemulsion using cavitation techniques. <i>Ultrasonics Sonochemistry</i> , 2017, 36, 367-374.	3.8	55
112	Enhancement of the Leaching Rate of Uranium in the Presence of Ultrasound. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 7639-7648.	1.8	54
113	Enhancement in biodegradability of distillery wastewater using enzymatic pretreatment. <i>Journal of Environmental Management</i> , 2006, 78, 77-85.	3.8	53
114	Synthesis of chalcone (3-(4-fluorophenyl)-1-(4-methoxyphenyl)prop-2-en-1-one): Advantage of sonochemical method over conventional method. <i>Ultrasonics Sonochemistry</i> , 2011, 18, 617-623.	3.8	53
115	Cavitationally Driven Transformations: A Technique of Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 5797-5819.	1.8	53
116	Continuous precipitation of calcium carbonate using sonochemical reactor. <i>Ultrasonics Sonochemistry</i> , 2015, 24, 132-139.	3.8	52
117	Synthesis of titanium dioxide by ultrasound assisted sol-gel technique: Effect of calcination and sonication time. <i>Ultrasonics Sonochemistry</i> , 2015, 23, 185-191.	3.8	52
118	Ultrasonic bath with longitudinal vibrations: a novel configuration for efficient wastewater treatment. <i>Ultrasonics Sonochemistry</i> , 2004, 11, 143-147.	3.8	51
119	Enzymatic production of glucose from different qualities of grain sorghum and application of ultrasound to enhance the yield. <i>Carbohydrate Research</i> , 2009, 344, 52-60.	1.1	51
120	Adsorptive Removal of Saturated and Unsaturated Fatty Acids Using Ion-Exchange Resins. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 6869-6876.	1.8	51
121	Hydrodynamic cavitation as an imperative technology for the treatment of petroleum refinery effluent. <i>Journal of Water Process Engineering</i> , 2019, 29, 100768.	2.6	50
122	Treatment of cyanide containing wastewater using cavitation based approach. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 1392-1399.	3.8	48
123	Dynamics of cavitation bubbles and design of a hydrodynamic cavitation reactor: cluster approach. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 441-452.	3.8	47
124	Cost effective design of compound parabolic collector for steam generation. <i>Solar Energy</i> , 2013, 90, 43-50.	2.9	47
125	Microbial disinfection of seawater using hydrodynamic cavitation. <i>Separation and Purification Technology</i> , 2015, 151, 31-38.	3.9	47
126	Acoustic Cavitation as a Novel Approach for Extraction of Oil from Waste Date Seeds. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4256-4263.	3.2	47

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127	Mechanistic Investigations on Sonophotocatalytic Degradation of Textile Dyes with Surface Active Solutes. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 11485-11494.	1.8	46
128	Oxidation of alkylarenes to the corresponding acids using aqueous potassium permanganate by hydrodynamic cavitation. <i>Ultrasonics Sonochemistry</i> , 2004, 11, 191-196.	3.8	45
129	Modeling aspects of dual frequency sonochemical reactors. <i>Chemical Engineering Journal</i> , 2007, 127, 71-79.	6.6	45
130	The degradation kinetics of flavor in black pepper (<i>Piper nigrum</i> L.). <i>Journal of Food Engineering</i> , 2009, 92, 44-49.	2.7	45
131	Significance of location of enzymes on their release during microbial cell disruption. <i>Biotechnology and Bioengineering</i> , 2001, 75, 607-614.	1.7	43
132	Oxidation of alkylarenes using aqueous potassium permanganate under cavitation: comparison of acoustic and hydrodynamic techniques. <i>Ultrasonics Sonochemistry</i> , 2005, 12, 85-90.	3.8	43
133	Clean Water for Developing Countries. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2015, 6, 217-246.	3.3	43
134	Synthesis of glycinamides using protease immobilized magnetic nanoparticles. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2016, 12, 13-25.	2.1	43
135	Scale-up of biotransformation process in stirred tank reactor using dual impeller bioreactor. <i>Biochemical Engineering Journal</i> , 2001, 8, 19-29.	1.8	42
136	Wet air oxidation as a pretreatment option for selective biodegradability enhancement and biogas generation potential from complex effluent. <i>Bioresource Technology</i> , 2012, 120, 157-164.	4.8	42
137	Kinetics of cooking of rice: A review. <i>Journal of Food Engineering</i> , 2014, 123, 113-129.	2.7	42
138	Kinetic studies of semibatch emulsion copolymerization of methyl methacrylate and styrene in the presence of high intensity ultrasound and initiator. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014, 85, 168-177.	1.8	42
139	Sono-crystallization kinetics of K ₂ SO ₄ : Estimation of nucleation, growth, breakage and agglomeration kinetics. <i>Ultrasonics Sonochemistry</i> , 2017, 35, 196-203.	3.8	42
140	Large scale microbial cell disruption using hydrodynamic cavitation: Energy saving options. <i>Biochemical Engineering Journal</i> , 2019, 143, 151-160.	1.8	41
141	Sono-chemical leaching of uranium. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008, 47, 2107-2113.	1.8	40
142	Novel Approach of Producing Oil in Water Emulsion Using Hydrodynamic Cavitation Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 16508-16515.	1.8	40
143	Hydrodynamic cavitation for energy efficient and scalable process of microalgae cell disruption. <i>Algal Research</i> , 2019, 40, 101496.	2.4	40
144	Cotton based composite fabric reinforced with waste polyester fibers for improved mechanical properties. <i>Waste Management</i> , 2020, 107, 227-234.	3.7	40

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145	Optimization of lipase production in a triple impeller bioreactor. <i>Biochemical Engineering Journal</i> , 2006, 27, 287-294.	1.8	39
146	Kinetic modelling of texture development in potato cubes (<i>Solanum tuberosum</i> L.), green gram whole (<i>Vigna radiate</i> L.) and red gram splits (<i>Cajanus cajan</i> L.). <i>Journal of Food Engineering</i> , 2006, 76, 524-530.	2.7	39
147	Application of Cavitation reactors for cell disruption for recovery of intracellular enzymes. <i>Journal of Chemical Technology and Biotechnology</i> , 2008, 83, 1083-1093.	1.6	39
148	A novel approach for continuous synthesis of calcium carbonate using sequential operation of two sonochemical reactors. <i>Ultrasonics Sonochemistry</i> , 2017, 35, 124-133.	3.8	39
149	Hydrolysis of soluble starch using <i>Bacillus licheniformis</i> α -amylase immobilized on superporous CELBEADS. <i>Carbohydrate Research</i> , 2007, 342, 997-1008.	1.1	38
150	Comparative material study and synthesis of 4-(4-nitrophenyl)oxazol-2-amine via sonochemical and thermal method. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 633-639.	3.8	38
151	Cavity cluster approach for quantification of cavitation intensity in sonochemical reactors. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 181-189.	3.8	37
152	Kinetics of degradation of saponins in soybean flour (<i>Glycine max.</i>) during food processing. <i>Journal of Food Engineering</i> , 2006, 76, 440-445.	2.7	37
153	Mapping of Acoustic Streaming in Sonochemical Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 4368-4373.	1.8	37
154	One pot green synthesis of nano sized zinc oxide by sonochemical method. <i>Materials Letters</i> , 2012, 77, 93-95.	1.3	37
155	Experimental investigation of cavitation bubble dynamics under multi-frequency system. <i>Ultrasonics Sonochemistry</i> , 2008, 15, 578-589.	3.8	35
156	Excess cell mass as an internal carbon source for biological denitrification. <i>Bioresource Technology</i> , 2010, 101, 1787-1791.	4.8	35
157	Using cavitation for delignification of wood. <i>Bioresource Technology</i> , 2012, 110, 697-700.	4.8	35
158	Sweet Lime Peels Derived Activated Carbon Based Electrode for Highly Efficient Supercapacitor and Flow Through Water Desalination. <i>ChemistrySelect</i> , 2019, 4, 2610-2625.	0.7	35
159	Process intensification of synthesis process for medium chain glycerides using cavitation. <i>Chemical Engineering Journal</i> , 2008, 145, 351-354.	6.6	34
160	Theoretical analysis of sonochemical degradation of phenol and its chloro-derivatives. <i>Ultrasonics Sonochemistry</i> , 2008, 15, 564-570.	3.8	34
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