

Aniruddha B Pandit

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3556817/aniruddha-b-pandit-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

286
papers

16,248
citations

71
h-index

116
g-index

296
ext. papers

18,203
ext. citations

6
avg, IF

7.11
L-index

#	Paper	IF	Citations
286	A review of imperative technologies for wastewater treatment I: oxidation technologies at ambient conditions. <i>Journal of Environmental Management</i> , 2004 , 8, 501-551		1323
285	A critical review on textile wastewater treatments: Possible approaches. <i>Journal of Environmental Management</i> , 2016 , 182, 351-366	7.9	947
284	A review of imperative technologies for wastewater treatment II: hybrid methods. <i>Journal of Environmental Management</i> , 2004 , 8, 553-597		636
283	Sonochemical reactors: Important design and scale up considerations with a special emphasis on heterogeneous systems. <i>Chemical Engineering Journal</i> , 2011 , 166, 1066-1082	14.7	386
282	Cavitation reactors: Efficiency assessment using a model reaction. <i>AIChE Journal</i> , 2001 , 47, 2526-2538	3.6	246
281	Wastewater treatment: a novel energy efficient hydrodynamic cavitation technique. <i>Ultrasonics Sonochemistry</i> , 2002 , 9, 123-31	8.9	229
280	Ultrasound enhanced degradation of Rhodamine B: optimization with power density. <i>Ultrasonics Sonochemistry</i> , 2001 , 8, 233-40	8.9	227
279	A review and assessment of hydrodynamic cavitation as a technology for the future. <i>Ultrasonics Sonochemistry</i> , 2005 , 12, 21-7	8.9	208
278	Ultrasound emulsification: effect of ultrasonic and physicochemical properties on dispersed phase volume and droplet size. <i>Ultrasonics Sonochemistry</i> , 2008 , 15, 554-563	8.9	191
277	Correlations to predict droplet size in ultrasonic atomisation. <i>Ultrasonics</i> , 2001 , 39, 235-55	3.5	186
276	Mapping of sonochemical reactors: Review, analysis, and experimental verification. <i>AIChE Journal</i> , 2002 , 48, 1542-1560	3.6	183
275	HYDRODYNAMIC CAVITATION REACTORS: A STATE OF THE ART REVIEW. <i>Reviews in Chemical Engineering</i> , 2001 , 17, 1-85	5	175
274	Degradation of Reactive Red 120 dye using hydrodynamic cavitation. <i>Chemical Engineering Journal</i> , 2011 , 178, 100-107	14.7	165
273	Engineering design methods for cavitation reactors II: Hydrodynamic cavitation. <i>AIChE Journal</i> , 2000 , 46, 1641-1649	3.6	161
272	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	14.7	160
271	Intensification Approaches for Biodiesel Synthesis from Waste Cooking Oil: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14610-14628	3.9	153
270	Ultrasonic atomization: effect of liquid phase properties. <i>Ultrasonics</i> , 2006 , 44, 146-58	3.5	148

269	Intensification of esterification of acids for synthesis of biodiesel using acoustic and hydrodynamic cavitation. <i>Ultrasonics Sonochemistry</i> , 2008 , 15, 188-94	8.9	140
268	Sonochemical reactors: scale up aspects. <i>Ultrasonics Sonochemistry</i> , 2004 , 11, 105-17	8.9	138
267	Sonophotocatalytic reactors for wastewater treatment: A critical review. <i>AIChE Journal</i> , 2004 , 50, 1051-1079	3.9	137
266	Multiple-impeller systems with a special emphasis on bioreactors: a critical review. <i>Biochemical Engineering Journal</i> , 2000 , 6, 109-144	4.2	134
265	Sonophotochemical destruction of aqueous solution of 2,4,6-trichlorophenol. <i>Ultrasonics Sonochemistry</i> , 1998 , 5, 53-61	8.9	131
264	Some aspects of the design of sonochemical reactors. <i>Ultrasonics Sonochemistry</i> , 2003 , 10, 325-30	8.9	131
263	Hydrodynamic cavitation for sonochemical effects. <i>Ultrasonics Sonochemistry</i> , 1999 , 6, 53-65	8.9	129
262	Effect of additives on ultrasonic degradation of phenol. <i>Ultrasonics Sonochemistry</i> , 2006 , 13, 165-74	8.9	127
261	Mapping the cavitation intensity in an ultrasonic bath using the acoustic emission. <i>AIChE Journal</i> , 2000 , 46, 684-694	3.6	127
260	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, 277-88	8.9	126
259	Engineering design method for cavitation reactors: I. Sonochemical reactors. <i>AIChE Journal</i> , 2000 , 46, 372-379	3.6	126
258	Phase transformation of nanostructured titanium dioxide from anatase-to-rutile via combined ultrasound assisted sol-gel technique. <i>Ultrasonics Sonochemistry</i> , 2010 , 17, 409-15	8.9	124
257	Energy Analysis in Acoustic Cavitation. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 1480-1486	3.9	123
256	Optimization of biodiesel production in a hydrodynamic cavitation reactor using used frying oil. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 322-8	8.9	118
255	Petroleum Residue Upgradation via Visbreaking: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 8960-8988	3.9	114
254	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	3.9	112
253	Room temperature synthesis of crystalline CeO ₂ nanopowder: advantage of sonochemical method over conventional method. <i>Ultrasonics Sonochemistry</i> , 2011 , 18, 1118-23	8.9	111
252	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	4.4	111

251	Cavitation--a novel technique for making stable nano-suspensions. <i>Ultrasonics Sonochemistry</i> , 2007 , 14, 519-530	8.9	109
250	Sonocrystallization: effect on lactose recovery and crystal habit. <i>Ultrasonics Sonochemistry</i> , 2007 , 14, 143-52	8.9	108
249	Ultrasound assisted interesterification of waste cooking oil and methyl acetate for biodiesel and triacetin production. <i>Fuel Processing Technology</i> , 2013 , 116, 241-249	7.2	105
248	Bubble behavior in hydrodynamic cavitation: Effect of turbulence. <i>AIChE Journal</i> , 1997 , 43, 1641-1648	3.6	105
247	Ultrasonic degradation of 2:4:6 trichlorophenol in presence of TiO ₂ catalyst. <i>Ultrasonics Sonochemistry</i> , 2001 , 8, 227-31	8.9	105
246	Modeling Hydrodynamic Cavitation. <i>Chemical Engineering and Technology</i> , 1999 , 22, 1017-1027	2	103
245	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		101
244	Optimization of Hydrodynamic Cavitation Using a Model Reaction. <i>Chemical Engineering and Technology</i> , 2000 , 23, 683-690	2	99
243	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	14.7	97
242	Characterization of flow phenomena induced by ultrasonic horn. <i>Chemical Engineering Science</i> , 2006 , 61, 7410-7420	4.4	97
241	Ultrasound pre-treatment for enhanced biodegradability of the distillery wastewater. <i>Ultrasonics Sonochemistry</i> , 2004 , 11, 197-203	8.9	97
240	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, 287-93	8.9	94
239	Comments on the mechanism of microbial cell disruption in high-pressure and high-speed devices. <i>Biotechnology Progress</i> , 1998 , 14, 657-60	2.8	94
238	Computational Fluid Dynamics Simulation of the Solid Suspension in a Stirred Slurry Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 4416-4428	3.9	93
237	Degradation of reactive orange 4 dye using hydrodynamic cavitation based hybrid techniques. <i>Ultrasonics Sonochemistry</i> , 2014 , 21, 1075-82	8.9	92
236	Cavitation milling of natural cellulose to nanofibrils. <i>Ultrasonics Sonochemistry</i> , 2010 , 17, 845-52	8.9	92
235	Intensified synthesis of biodiesel using hydrodynamic cavitation reactors based on the interesterification of waste cooking oil. <i>Fuel</i> , 2014 , 137, 285-292	7.1	91
234	Synergetic effect of combination of AOPs (hydrodynamic cavitation and H ₂ O ₂) on the degradation of neonicotinoid class of insecticide. <i>Journal of Hazardous Materials</i> , 2013 , 261, 139-47	12.8	89

233	Large-scale sonochemical reactors for process intensification: design and experimental validation. <i>Journal of Chemical Technology and Biotechnology</i> , 2003 , 78, 685-693	3.5	88
232	Hydrodynamic cavitation as a novel approach for wastewater treatment in wood finishing industry. <i>Separation and Purification Technology</i> , 2013 , 106, 15-21	8.3	84
231	Effect of geometry of hydrodynamically cavitating device on degradation of orange-G. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 345-53	8.9	84
230	Gas/Liquid mass transfer studies with triple impeller system on a laboratory scale bioreactor. <i>Biochemical Engineering Journal</i> , 2005 , 23, 25-30	4.2	84
229	Ultrasound assisted transesterification of waste cooking oil using heterogeneous solid catalyst. <i>Ultrasonics Sonochemistry</i> , 2015 , 22, 278-86	8.9	81
228	Mixing time analysis of a sonochemical reactor. <i>Ultrasonics Sonochemistry</i> , 2001 , 8, 23-33	8.9	80
227	Synthesis of titanium dioxide by ultrasound assisted sol-gel technique: effect of amplitude (power density) variation. <i>Ultrasonics Sonochemistry</i> , 2010 , 17, 697-703	8.9	78
226	Ultrasound-Assisted Synthesis of Biodiesel from Palm Fatty Acid Distillate. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 7923-7927	3.9	77
225	Hydrodynamics of the rupture of thin liquid films. <i>Journal of Fluid Mechanics</i> , 1990 , 212, 11	3.7	77
224	Hybrid cavitation methods for water disinfection: simultaneous use of chemicals with cavitation. <i>Ultrasonics Sonochemistry</i> , 2003 , 10, 255-64	8.9	76
223	Ultrasonic hyperactivation of cellulase immobilized on magnetic nanoparticles. <i>Bioresource Technology</i> , 2017 , 239, 117-126	11	74
222	Mapping the efficacy of new designs for large scale sonochemical reactors. <i>Ultrasonics Sonochemistry</i> , 2007 , 14, 538-544	8.9	74
221	Mapping of an ultrasonic horn: link primary and secondary effects of ultrasound. <i>Ultrasonics Sonochemistry</i> , 2003 , 10, 331-5	8.9	74
220	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,	5	73
219	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	8.9	73
218	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	3.9	73
217	Hydrodynamic cavitation as a novel approach for delignification of wheat straw for paper manufacturing. <i>Ultrasonics Sonochemistry</i> , 2014 , 21, 162-8	8.9	72
216	Ultrasound assisted synthesis of isopropyl esters from palm fatty acid distillate. <i>Ultrasonics Sonochemistry</i> , 2009 , 16, 345-50	8.9	72

215	Investigations into ultrasound induced atomization. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 254-64	8.9	70
214	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	14.7	68
213	Ultrasound assisted manufacturing of paraffin wax nanoemulsions: process optimization. <i>Ultrasonics Sonochemistry</i> , 2015 , 23, 201-7	8.9	66
212	Hydrodynamic cavitation: an advanced oxidation process for the degradation of bio-refractory pollutants. <i>Reviews in Chemical Engineering</i> , 2016 , 32,	5	66
211	Analysis of semibatch emulsion polymerization: role of ultrasound and initiator. <i>Ultrasonics Sonochemistry</i> , 2012 , 19, 97-103	8.9	65
210	Survey of measurement techniques for gas-liquid mass transfer coefficient in bioreactors. <i>Biochemical Engineering Journal</i> , 1999 , 4, 7-15	4.2	65
209	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	8.9	63
208	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	8.3	62
207	Rapid lactose recovery from paneer whey using sonocrystallization: A process optimization. <i>Chemical Engineering and Processing: Process Intensification</i> , 2007 , 46, 846-850	3.7	61
206	Ultrasound and enzyme assisted biodegradation of distillery wastewater. <i>Journal of Environmental Management</i> , 2006 , 80, 36-46	7.9	61
205	Optimization of multiple-frequency sonochemical reactors. <i>Chemical Engineering Science</i> , 2004 , 59, 4991-4998	14.9	61
204	The CFD driven optimisation of a modified venturi for cavitation activity. <i>Canadian Journal of Chemical Engineering</i> , 2011 , 89, 1366-1375	2.3	60
203	Enzymatic hydrolysis of castor oil: Process intensification studies. <i>Biochemical Engineering Journal</i> , 2006 , 31, 31-41	4.2	59
202	A Sonophotochemical Reactor for the Removal of Formic Acid from Wastewater. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 3370-3378	3.9	59
201	Cavitationally induced biodegradability enhancement of a distillery wastewater. <i>Journal of Hazardous Materials</i> , 2012 , 219-220, 69-74	12.8	57
200	Combination of ozonation with conventional aerobic oxidation for distillery wastewater treatment. <i>Chemosphere</i> , 2007 , 68, 32-41	8.4	57
199	Effect of cavitation on chemical disinfection efficiency. <i>Water Research</i> , 2004 , 38, 2248-57	12.5	56
198	Ultrasound and ozone assisted biological degradation of thermally pretreated and anaerobically pretreated distillery wastewater. <i>Chemosphere</i> , 2007 , 68, 42-50	8.4	55

197	Review on Mixing Characteristics in Solid-Liquid and Solid-Liquid-Gas Reactor Vessels. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 83, 618-643	2.3	54
196	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	8.3	53
195	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	11	53
194	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	6.8	53
193	A review on sonoelectrochemical technology as an upcoming alternative for pollutant degradation. <i>Ultrasonics Sonochemistry</i> , 2015 , 27, 210-234	8.9	53
192	Synthesis of zirconium dioxide by ultrasound assisted precipitation: effect of calcination temperature. <i>Ultrasonics Sonochemistry</i> , 2011 , 18, 1128-37	8.9	53
191	Destruction of Rhodamine B using novel sonochemical reactor with capacity of 7.5 l. <i>Separation and Purification Technology</i> , 2004 , 34, 13-24	8.3	53
190	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	3.7	52
189	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	3.7	52
188	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, 272-7	8.9	49
187	Oscillating bubble concentration and its size distribution using acoustic emission spectra. <i>Ultrasonics Sonochemistry</i> , 2009 , 16, 105-15	8.9	49
186	Synergistic effect of ultrasonication and co-immobilized enzymes on tomato peels for lycopene extraction. <i>Ultrasonics Sonochemistry</i> , 2018 , 48, 453-462	8.9	49
185	Enhancement in biodegradability of distillery wastewater using enzymatic pretreatment. <i>Journal of Environmental Management</i> , 2006 , 78, 77-85	7.9	48
184	Studies in multiple impeller agitated gas-liquid contactors. <i>Chemical Engineering Science</i> , 2006 , 61, 489-504	4.4	47
183	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	14.7	46
182	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	14.7	46
181	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, 135-42	8.9	45
180	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, 617-23	8.9	45

179	Continuous precipitation of calcium carbonate using sonochemical reactor. <i>Ultrasonics Sonochemistry</i> , 2015 , 24, 132-9	8.9	44
178	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	3.9	44
177	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	2.9	44
176	Ultrasonic bath with longitudinal vibrations: a novel configuration for efficient wastewater treatment. <i>Ultrasonics Sonochemistry</i> , 2004 , 11, 143-7	8.9	44
175	Mechanistic Investigations on Sonophotocatalytic Degradation of Textile Dyes with Surface Active Solutes. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 11485-11494	3.9	43
174	Enhancement of the Leaching Rate of Uranium in the Presence of Ultrasound. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 7639-7648	3.9	43
173	Adsorptive Removal of Saturated and Unsaturated Fatty Acids Using Ion-Exchange Resins. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 6869-6876	3.9	42
172	Kinetic Modelling of Colour Degradation in Tomato Puree (<i>Lycopersicon esculentum</i> L.). <i>Food and Bioprocess Technology</i> , 2011 , 4, 781-787	5.1	42
171	Dynamics of cavitation bubbles and design of a hydrodynamic cavitation reactor: cluster approach. <i>Ultrasonics Sonochemistry</i> , 2005 , 12, 441-52	8.9	42
170	Oxidation of alkylarenes to the corresponding acids using aqueous potassium permanganate by hydrodynamic cavitation. <i>Ultrasonics Sonochemistry</i> , 2004 , 11, 191-6	8.9	41
169	Oxidation of alkylarenes using aqueous potassium permanganate under cavitation: comparison of acoustic and hydrodynamic techniques. <i>Ultrasonics Sonochemistry</i> , 2005 , 12, 85-90	8.9	41
168	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	8.9	40
167	Synthesis of titanium dioxide by ultrasound assisted sol-gel technique: effect of calcination and sonication time. <i>Ultrasonics Sonochemistry</i> , 2015 , 23, 185-91	8.9	40
166	Treatment of cyanide containing wastewater using cavitation based approach. <i>Ultrasonics Sonochemistry</i> , 2014 , 21, 1392-9	8.9	40
165	Modeling aspects of dual frequency sonochemical reactors. <i>Chemical Engineering Journal</i> , 2007 , 127, 71-79	14.7	40
164	Significance of location of enzymes on their release during microbial cell disruption. <i>Biotechnology and Bioengineering</i> , 2001 , 75, 607-14	4.9	40
163	Cost effective design of compound parabolic collector for steam generation. <i>Solar Energy</i> , 2013 , 90, 43-50	3.8	39
162	Wet air oxidation as a pretreatment option for selective biodegradability enhancement and biogas generation potential from complex effluent. <i>Bioresource Technology</i> , 2012 , 120, 157-64	11	38

161	Sustained release formulations of citronella oil nanoemulsion using cavitation techniques. <i>Ultrasonics Sonochemistry</i> , 2017 , 36, 367-374	8.9	37
160	Sonochemical effect induced by hydrodynamic cavitation: Comparison of venturi/orifice flow geometries. <i>AIChE Journal</i> , 2017 , 63, 4705-4716	3.6	37
159	Scale-up of biotransformation process in stirred tank reactor using dual impeller bioreactor. <i>Biochemical Engineering Journal</i> , 2001 , 8, 19-29	4.2	37
158	Kinetics of cooking of rice: A review. <i>Journal of Food Engineering</i> , 2014 , 123, 113-129	6	36
157	The degradation kinetics of flavor in black pepper (<i>Piper nigrum</i> L.). <i>Journal of Food Engineering</i> , 2009 , 92, 44-49	6	36
156	Optimization of lipase production in a triple impeller bioreactor. <i>Biochemical Engineering Journal</i> , 2006 , 27, 287-294	4.2	36
155	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	8.3	35
154	Microbial disinfection of seawater using hydrodynamic cavitation. <i>Separation and Purification Technology</i> , 2015 , 151, 31-38	8.3	34
153	One pot green synthesis of nano sized zinc oxide by sonochemical method. <i>Materials Letters</i> , 2012 , 77, 93-95	3.3	34
152	Kinetic modelling of texture development in potato cubes (<i>Solanum tuberosum</i> L.), green gram whole (<i>Vigna radiata</i> L.) and red gram splits (<i>Cajanus cajan</i> L.). <i>Journal of Food Engineering</i> , 2006 , 76, 524-530	6	34
151	Mapping of Acoustic Streaming in Sonochemical Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 4368-4373	3.9	33
150	Cavity cluster approach for quantification of cavitation intensity in sonochemical reactors. <i>Ultrasonics Sonochemistry</i> , 2003 , 10, 181-9	8.9	33
149	Clean Water for Developing Countries. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2015 , 6, 217-46	8.9	32
148	Hydrolysis of soluble starch using <i>Bacillus licheniformis</i> alpha-amylase immobilized on superporous CELBEADS. <i>Carbohydrate Research</i> , 2007 , 342, 997-1008	2.9	32
147	On the behaviour, mechanistic modelling and interaction of biochar and crop fertilizers in aqueous solutions. <i>Resource-efficient Technologies</i> , 2016 , 2, 133-142	2	32
146	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	3.7	31
145	Application of Cavitation reactors for cell disruption for recovery of intracellular enzymes. <i>Journal of Chemical Technology and Biotechnology</i> , 2008 , 83, 1083-1093	3.5	31
144	Sono-chemical leaching of uranium. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 2107-2113	3.7	31

143	Synthesis of glycinamides using protease immobilized magnetic nanoparticles. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2016 , 12, 13-25	5.3	31
142	Comparative material study and synthesis of 4-(4-nitrophenyl)oxazol-2-amine via sonochemical and thermal method. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 633-9	8.9	30
141	Sono-crystallization kinetics of KSO: Estimation of nucleation, growth, breakage and agglomeration kinetics. <i>Ultrasonics Sonochemistry</i> , 2017 , 35, 196-203	8.9	30
140	Ultrasonically controlled particle size distribution of explosives: a safe method. <i>Ultrasonics Sonochemistry</i> , 2008 , 15, 177-87	8.9	30
139	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	6	30
138	Hydrodynamic cavitation as an imperative technology for the treatment of petroleum refinery effluent. <i>Journal of Water Process Engineering</i> , 2019 , 29, 100768	6.7	30
137	Excess cell mass as an internal carbon source for biological denitrification. <i>Bioresource Technology</i> , 2010 , 101, 1787-91	11	29
136	Selective synthesis of sulfoxides from sulfides using ultrasound. <i>Ultrasonics Sonochemistry</i> , 2007 , 14, 135-42	8.9	29
135	Process intensification of synthesis process for medium chain glycerides using cavitation. <i>Chemical Engineering Journal</i> , 2008 , 145, 351-354	14.7	29
134	Theoretical analysis of sonochemical degradation of phenol and its chloro-derivatives. <i>Ultrasonics Sonochemistry</i> , 2008 , 15, 564-570	8.9	29
133	Novel Approach of Producing Oil in Water Emulsion Using Hydrodynamic Cavitation Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 16508-16515	3.9	28
132	A novel approach for continuous synthesis of calcium carbonate using sequential operation of two sonochemical reactors. <i>Ultrasonics Sonochemistry</i> , 2017 , 35, 124-133	8.9	28
131	Cavitationally Driven Transformations: A Technique of Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5797-5819	3.9	27
130	Effect of dissolved gas on efficacy of sonochemical reactors for microbial cell disruption: Experimental and numerical analysis. <i>Ultrasonics Sonochemistry</i> , 2009 , 16, 635-43	8.9	27
129	Experimental investigation of cavitation bubble dynamics under multi-frequency system. <i>Ultrasonics Sonochemistry</i> , 2008 , 15, 578-589	8.9	27
128	A study on degradation kinetics of riboflavin in green gram whole (<i>Vigna radiata L.</i>). <i>Food Chemistry</i> , 2005 , 89, 577-582	8.5	27
127	Using cavitation for delignification of wood. <i>Bioresource Technology</i> , 2012 , 110, 697-700	11	26
126	Steam bubble cavitation. <i>AIChE Journal</i> , 2008 , 54, 1711-1724	3.6	26

125	Ultrasonic degradation of poly(vinyl alcohol) in aqueous solution. <i>Ultrasonics Sonochemistry</i> , 2006 , 13, 423-8	8.9	26
124	Modelling of solid fuel stoves. <i>Fuel</i> , 2010 , 89, 782-791	7.1	25
123	Improved cavitation cell disruption following pH pretreatment for the extraction of β -galactosidase from <i>Kluyveromyces lactis</i> . <i>Biochemical Engineering Journal</i> , 2006 , 31, 25-30	4.2	25
122	Ultrasound mediated alkaline hydrolysis of methyl benzoate--reinvestigation with crucial parameters. <i>Ultrasonics Sonochemistry</i> , 2002 , 9, 25-30	8.9	25
121	Static foam destruction: role of ultrasound. <i>Ultrasonics Sonochemistry</i> , 2004 , 11, 67-75	8.9	24
120	Laccase immobilized peroxidase mimicking magnetic metal organic frameworks for industrial dye degradation. <i>Bioresource Technology</i> , 2020 , 317, 124035	11	24
119	Process intensification of delignification and enzymatic hydrolysis of delignified cellulosic biomass using various process intensification techniques including cavitation. <i>Bioresource Technology</i> , 2016 , 213, 162-168	11	24
118	Advanced Oxidation Technologies for Wastewater Treatment 2014 , 141-191		23
117	Ultrasonic Synthesis of Benzaldehyde from Benzyl Alcohol Using H ₂ O ₂ : Role of Ultrasound. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 98-108	3.9	23
116	Isolation of β -glucosidase from <i>Saccharomyces cerevisiae</i> : cell disruption and adsorption. <i>Biochemical Engineering Journal</i> , 2003 , 15, 37-45	4.2	23
115	Large scale microbial cell disruption using hydrodynamic cavitation: Energy saving options. <i>Biochemical Engineering Journal</i> , 2019 , 143, 151-160	4.2	23
114	Hydrodynamic cavitation for energy efficient and scalable process of microalgae cell disruption. <i>Algal Research</i> , 2019 , 40, 101496	5	22
113	Vacuum pyrolysed biochar for soil amendment. <i>Resource-efficient Technologies</i> , 2016 , 2, S177-S185	2	22
112	Cotton based composite fabric reinforced with waste polyester fibers for improved mechanical properties. <i>Waste Management</i> , 2020 , 107, 227-234	8.6	21
111	Hydrodynamics and heat transfer characteristics of passive decay heat removal systems: CFD simulations and experimental measurements. <i>Chemical Engineering Science</i> , 2010 , 65, 3457-3473	4.4	21
110	A study on degradation kinetics of thiamine in red gram splits (<i>Cajanus cajan</i> L.). <i>Food Chemistry</i> , 2004 , 85, 591-598	8.5	21
109	Sweet-Lime-Peels-Derived Activated-Carbon-Based Electrode for Highly Efficient Supercapacitor and Flow-Through Water Desalination. <i>ChemistrySelect</i> , 2019 , 4, 2610-2625	1.8	20
108	Modeling the effect of carbon-dioxide gas on cavitation. <i>Ultrasonics Sonochemistry</i> , 2017 , 34, 721-728	8.9	20

107	Effect of internals and sparger design on mixing behavior in sectionalized bubble column. <i>Chemical Engineering Journal</i> , 2005 , 112, 117-129	14.7	20
106	Solar energy assisted palladium nanoparticles synthesis in aqueous medium. <i>Materials Letters</i> , 2012 , 79, 1-3	3.3	19
105	Ultrasound-facilitated particle breakage: Estimation of kinetic parameters using population balance modelling. <i>Canadian Journal of Chemical Engineering</i> , 2014 , 92, 2046-2052	2.3	19
104	Mixing Time Studies in Multiple Impeller Agitated Reactors. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 82, 892-904	2.3	19
103	Investigation of induction of air due to ultrasound source in the sonochemical reactors. <i>Ultrasonics Sonochemistry</i> , 2005 , 12, 453-60	8.9	19
102	Use of ultrasound in petroleum residue upgradation. <i>Canadian Journal of Chemical Engineering</i> , 2009 , 87, 329-342	2.3	18
101	Destruction of formic acid using high frequency cup horn reactor. <i>Water Research</i> , 2006 , 40, 1697-705	12.5	18
100	Process intensification using cavitation: optimization of oxidation conditions for synthesis of sulfone. <i>Ultrasonics Sonochemistry</i> , 2006 , 13, 523-8	8.9	18
99	Heat induced translocation of proteins and enzymes within the cell: an effective way to optimize the microbial cell disruption process. <i>Biochemical Engineering Journal</i> , 2005 , 23, 247-257	4.2	18
98	Magnetic Pd@FeO composite nanostructure as recoverable catalyst for sonoelectrohybrid degradation of Ibuprofen. <i>Ultrasonics Sonochemistry</i> , 2017 , 34, 262-272	8.9	17
97	Modeling Flow Pattern Induced by Ultrasound: The Influence of Modeling Approach and Turbulence Models. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 2936-2950	3.9	17
96	Development of Efficient Designs of Cooking Systems. II. Computational Fluid Dynamics and Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1897-1922	3.9	16
95	A study on degradation kinetics of riboflavin in spinach (<i>Spinacea oleracea</i> L.). <i>Journal of Food Engineering</i> , 2005 , 67, 407-412	6	16
94	Intensification of ultrasound-assisted process for the preparation of spindle-shape sodium zinc molybdate nanoparticles. <i>Ultrasonics Sonochemistry</i> , 2016 , 28, 311-318	8.9	14
93	Dynamics of Photothermally Created Vaporously, Gaseous, and Mixed Microbubbles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6611-6617	3.8	14
92	Preparation of Alumina and Alumina-Ceria Microspheres using an Internal Gelation Process and their Characterization. <i>Transactions of the Indian Ceramic Society</i> , 2012 , 71, 101-109	1.8	14
91	Ultrasound assisted methanolysis of polycarbonate at room temperature. <i>Ultrasonics Sonochemistry</i> , 2019 , 58, 104667	8.9	13
90	Development of Efficient Designs of Cooking Systems. III. Kinetics of Cooking and Quality of Cooked Food, Including Nutrients, Anti-Nutrients, Taste, and Flavor. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1923-1937	3.9	13

89	Kinetics of degradation of ODAP in <i>Lathyrus sativus</i> L. flour during food processing. <i>Food Chemistry</i> , 2007 , 104, 643-649	8.5	13
88	Ultrasound-Accelerated Green and Selective Oxidation of Sulfides to Sulfoxides. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 8829-8836	3.9	13
87	Mixing of miscible liquids with density differences: Effect of volume and density of the tracer fluid. <i>Canadian Journal of Chemical Engineering</i> , 1999 , 77, 988-996	2.3	13
86	Effect of Sonication on Crystal Properties. <i>Separation Science and Technology</i> , 1995 , 30, 2239-2243	2.5	13
85	Synthesis of nanosized calcium carbonate using reverse miniemulsion technique: Comparison between sonochemical and conventional method. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015 , 98, 13-21	3.7	12
84	Denitrification of high strength nitrate waste from a nuclear industry using acclimatized biomass in a pilot scale reactor. <i>Applied Biochemistry and Biotechnology</i> , 2015 , 175, 748-56	3.2	12
83	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	5.5	12
82	A study on degradation kinetics of ascorbic acid in drumstick (<i>Moringa olifera</i>) leaves during cooking. <i>Journal of the Science of Food and Agriculture</i> , 2005 , 85, 1953-1958	4.3	12
81	Comparison and Characterization of Fe ₃ O ₄ Nanoparticles Synthesized by Conventional Magnetic Stirring and Sonochemical Method. <i>Advanced Science Letters</i> , 2018 , 24, 5681-5686	0.1	12
80	Ultrasound-Assisted Alkaline Hydrolysis of Waste Poly(Ethylene Terephthalate) in Aqueous and Non-aqueous Media at Low Temperature. <i>Indian Chemical Engineer</i> , 2018 , 60, 122-140	1	11
79	Development of Efficient Designs of Cooking Systems. I. Experimental. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1878-1896	3.9	11
78	Quantification of the energy required for the destruction of <i>Balanus amphitrite</i> larva by ultrasonic treatment. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2010 , 90, 1475-1482	1.1	11
77	Effect of solvents on properties of the ultrasound assisted synthesized ceria nanoparticles and its performance as an adsorbent. <i>Advanced Powder Technology</i> , 2019 , 30, 1058-1066	4.6	10
76	Single and multiphase CFD simulations for designing cavitating venturi. <i>Chemical Engineering Research and Design</i> , 2019 , 149, 1-12	5.5	10
75	Degradation kinetics of folic acid in cowpea (<i>Vigna catjang</i> L.) during cooking. <i>International Journal of Food Sciences and Nutrition</i> , 2005 , 56, 389-97	3.7	10
74	ULTRASOUND ENHANCED PTC CONVERSION OF BENZAMIDE TO BENZONITRILE. <i>Synthetic Communications</i> , 2001 , 31, 2583-2587	1.7	10
73	Comparison of acoustic and hydrodynamic cavitation based hybrid AOPs for COD reduction of commercial effluent from CETP. <i>Journal of Environmental Management</i> , 2021 , 281, 111792	7.9	10
72	Kinetic Study of Homogeneous Catalyzed Esterification of a Series of Aliphatic Acids with Different Alcohols. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2672-2682	3.9	9

71	Parameters Affecting Efficient Solid Circulation Rate in Draft Tube Spouted Bed. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 8605-8611	3.9	9
70	Ultrasound-assisted intensification of bio-catalyzed synthesis of mono-N-alkyl aromatic amines. <i>Biochemical Engineering Journal</i> , 2013 , 70, 29-34	4.2	9
69	Characterization of Sonochemical Reactor for Physicochemical Transformations. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 9402-9407	3.9	9
68	Effect of agitation on heat-induced deproteination process of buffalo milk whey. <i>Journal of Food Engineering</i> , 2008 , 87, 398-404	6	9
67	Ultrasound Reactors 193-277		9
66	Preparation of antibacterial peel-off facial mask formulation incorporating biosynthesized silver nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2019 , 9, 279-287	3.3	9
65	Process Intensification of Upgradation of Crude Oil and Vacuum Residue by Hydrodynamic Cavitation and Microwave Irradiation. <i>Indian Chemical Engineer</i> , 2015 , 57, 256-281	1	8
64	Sequential Crystallization Parameter Estimation Method for Determination of Nucleation, Growth, Breakage, and Agglomeration Kinetics. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 1370-1379	3.9	8
63	Design and development of energy efficient continuous cooking system. <i>Journal of Food Engineering</i> , 2016 , 168, 231-239	6	8
62	Bubble Dynamics of a Single Condensing Vapor Bubble from Vertically Heated Wall in Subcooled Pool Boiling System: Experimental Measurements and CFD Simulations. <i>International Journal of Chemical Engineering</i> , 2012 , 2012, 1-11	2.2	8
61	Drinking Water Disinfection Techniques		8
60	One pot clarification and debittering of grapefruit juice using co-immobilized enzymes@chitosanMNPs. <i>International Journal of Biological Macromolecules</i> , 2021 , 167, 1297-1307	7.9	8
59	Investigation of corrosion inhibition performance of ultrasonically prepared sodium zinc molybdate nanopigment in two-pack epoxy-polyamide coating. <i>Composite Interfaces</i> , 2014 , 21, 833-852	2.3	7
58	Crystallisation of ferrous sulphate heptahydrate: Experiments and modelling. <i>Canadian Journal of Chemical Engineering</i> , 2013 , 91, 47-53	2.3	7
57	Measurement and interpretation of cavitation noise in a hybrid hydrodynamic cavitating device. <i>AIChE Journal</i> , 2011 , 57, 861-871	3.6	7
56	Studies of internal gelation for the production of microspheres: sonication assisted gelation. <i>Ultrasonics Sonochemistry</i> , 2011 , 18, 250-7	8.9	7
55	Thermodynamic and kinetic considerations of nucleation and stabilization of acoustic cavitation bubbles in water. <i>Ultrasonics Sonochemistry</i> , 2008 , 15, 65-77	8.9	7
54	Effect of intensifying additives on the degradation of thiamethoxam using ultrasound cavitation. <i>Ultrasonics Sonochemistry</i> , 2021 , 70, 105310	8.9	7

53	Crystal Shape Evolution Using Polyhedral Population Balance. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18966-18974	3.9	6
52	Effect of Sintering Temperatures on the Synthesis of SnO ₂ Nanospheres. <i>ISRN Chemical Engineering</i> , 2012 , 2012, 1-7		6
51	A study on degradation kinetics of niacin in potato (<i>Solanum tuberosum</i> L.). <i>Journal of Food Composition and Analysis</i> , 2009 , 22, 620-624	4.1	6
50	Enzymatic hydrolysis of oil in a spray column. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010 , 67, 1-9		6
49	Enzymatic acyl modification of phosphatidylcholine using immobilized lipase and phospholipase A ₂ . <i>European Journal of Lipid Science and Technology</i> , 2010 , 112, 428-433	3	6
48	Mixing Time in a Short Bubble Column. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 81, 185-195	2.3	6
47	Characterization of Gas-Liquid Flows in Stirred Vessels Using Pressure and Torque Fluctuations. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 3298-3311	3.9	6
46	Cavitation Generation and Usage Without Ultrasound: Hydrodynamic Cavitation 2010 , 69-106		6
45	Computational Fluid Dynamics Study of Biomass Cook Stove Part 1: Hydrodynamics and Homogeneous Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4161-4176	3.9	6
44	Critical Assessment of Performance of a Draft Tube Configured in a Spouted Bed for Various Fluid-Particle Properties. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19670-19680	3.9	5
43	Purification of alpha-glucosidase and invertase from baker's yeast on modified polymeric supports. <i>Bioseparation</i> , 1999 , 8, 293-306		5
42	Facile Synthesis of Homogeneous Catalyzed Esterification of Medium-Chain-Length Fatty Acids and Kinetic Study. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22212-22224	3.9	5
41	Production of biologically active peptides by hydrolysis of whey protein isolates using hydrodynamic cavitation. <i>Ultrasonics Sonochemistry</i> , 2021 , 71, 105385	8.9	5
40	Image analysis based validation and kinetic parameter estimation of rice cooking. <i>Journal of Food Process Engineering</i> , 2017 , 40, e12552	2.4	4
39	Novel Porous Draft Tube To Manipulate Fluid Throughput from Spout to Annulus in a Spouted Bed. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 3229-3237	3.9	4
38	Intrinsic Kinetics of Three-Phase Slurry Hydrogenation of o-Nitrocardanol to o-Aminocardanol over Raney Nickel Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 11034-11041	3.9	4
37	Visbreaking Studies in the Presence of Soaker Internals. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 11221-11231	3.9	4
36	Inhibition of Gypsum Scales on MS metal surface using hydrodynamic forces. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020 , 147, 107706	3.7	4

35	Valorisation of biomass pellets to renewable fuel and chemicals using pyrolysis: characterisation of pyrolysis products and its application. <i>Indian Chemical Engineer</i> , 2020 , 62, 78-91	1	4
34	Valorization of peanut shell biochar for soil amendment. <i>Journal of Plant Nutrition</i> , 1-19	2.3	4
33	Kinetics of cooking of unsoaked and presoaked split peas (<i>Cajanus cajan</i>). <i>Journal of Food Process Engineering</i> , 2017 , 40, e12527	2.4	3
32	Light-weight thermal insulating fly ash cenosphere ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2018 , 15, 1467-1477	2	3
31	Optimizing the Formulation and Processing Conditions of Gulab Jamun: A Statistical Design. <i>International Journal of Food Properties</i> , 2009 , 12, 162-175	3	3
30	Techniques of wastewater treatment 2000 , 5, 64-74		3
29	Enzyme mass transfer coefficient in a sieve plate extraction column. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1994 , 55, B1-B17		3
28	Clean Water for Developing Countries: Feasibility of Different Treatment Solutions 2019 , 643-652		3
27	Evaluation of gypsum ($\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$) scale formation and its inhibition by different antiscalants by static and dynamic test. <i>Indian Chemical Engineer</i> , 2020 , 62, 251-262	1	3
26	Treatment of acid violet 7 dye containing effluent using the hybrid approach based on hydrodynamic cavitation. <i>Chemical Engineering Research and Design</i> , 2021 , 153, 178-191	5.5	3
25	Degradation kinetics and mechanism of hazardous metribuzin herbicide using advanced oxidation processes (HC & HC+ H ₂ O ₂). <i>Chemical Engineering and Processing: Process Intensification</i> , 2021 , 166, 1084-1086	2.7	3
24	Coronavirus: a comparative analysis of detection technologies in the wake of emerging variants.. <i>Infection</i> , 2022 , 1	5.8	3
23	Exploration of a cheaper carbon source for extracellular α -glucosidase synthesis from <i>Debaryomyces pseudopolymorphus</i> NRRL YB-4229. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 172, 3606-20	3.2	2
22	A novel method to improve the efficiency of a cooking device via thermal insulation. <i>Canadian Journal of Chemical Engineering</i> , 2012 , 90, 1212-1223	2.3	2
21	ULTRASONIC ATOMISATION ASSISTED SPRAY DRYING 2007 ,		2
20	Ultrasonic atomisation: A novel technique for surface coatings. <i>Surface Coatings International Part B: Coatings Transactions</i> , 2005 , 88, 189-196		2
19	Computational Fluid Dynamic Study of Biomass Cook Stove Part 2: Devolatilization and Heterogeneous Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 14507-14521	3.9	2
18	Expeditious synthesis and kinetic study of biodegradable amide 2,2-(3-(2-((carboxymethyl)amino)-2-oxoethyl)-3-hydroxypentanedioyl)bis(azanediyl) diacetic acid (COHBDA) under ultrasound irradiation. <i>Indian Chemical Engineer</i> , 2020 , 1-15	1	1

17	Palladium supported on nano-hybrid ZrO ₂ /Al ₂ O ₃ catalyst for hydrogenation of 2-ethylanthraquinone. <i>Indian Chemical Engineer</i> , 2020 , 1-15	1	1
16	Kinetic Modelling of Hydrogenation of Cardanol over Pd/C Catalyst. <i>Indian Chemical Engineer</i> , 2018 , 60, 88-103	1	1
15	Studying the effect of nature of glass surface on immobilization of glucose isomerase. <i>Biocatalysis and Agricultural Biotechnology</i> , 2014 , 3, 86-89	4.2	1
14	Process Intensification and Green Processing Using Cavitation Reactors 2013 , 199-225		1
13	Process intensification of hydrogenation reactions using cavitation: Modelling the effect of solvent and catalyst. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009 , 48, 432-437	3.7	1
12	UV Photoactivation of Nano/Micro Porous Plant-Derived Carbon and Application to CO ₂ Gas Adsorption. <i>International Journal of Green Nanotechnology</i> , 2011 , 3, 292-301		1
11	Techniques of waterwater treatment 2000 , 5, 56-68		1
10	Optimising hydrodynamic conditions for inhibiting scale deposition on metal surfaces in the presence of aspartic acid. <i>Indian Chemical Engineer</i> , 1-11	1	1
9	A review on pesticide degradation from irrigation water and techno-economic feasibility of treatment technologies. <i>Water Environment Research</i> , 2021 , 93, 2391-2413	2.8	1
8	Green synthesis and kinetic study of eco-friendly chelating agent by hydrothermal process for remediation of heavy metals. <i>Indian Chemical Engineer</i> , 1-16	1	1
7	Hydrodynamics of Liquid-Liquid Flows in Micro Channels and Its Influence on Transport Properties: A Review. <i>Energies</i> , 2021 , 14, 6066	3.1	1
6	Fabrication of CeO ₂ microspheres by internal gelation process using T junction droplet generator. <i>Brazilian Journal of Chemical Engineering</i> , 1	1.7	0
5	ANN modelling of Hydrodynamic Cavitation for the degradation of Rhodamine B dye. <i>Journal of Water Process Engineering</i> , 2022 , 47, 102759	6.7	0
4	Treatment of Industrial and Municipal Wastewater: An Overview about Basic and Advanced Concepts 2017 , 469-520		
3	Matching Chemistry with Chemical Engineering for Optimum Design and Performance of Pharmaceutical Processing 2010 , 443-467		
2	Inhibitory effect of novel green polymer (Aspartic-citric acid) on the process of nucleation during gypsum scale formation. <i>Journal of Crystal Growth</i> , 2022 , 581, 126472	1.6	
1	Applications of Ultrasound in Separation Processes 2022 , 155-197		