

Aniruddha B Pandit

List of Publications by Year in Descending Order

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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.

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	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	
285	Applications of Ultrasound in Separation Processes 2022 , 155-197		
284	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
283	Coronavirus: a comparative analysis of detection technologies in the wake of emerging variants.. <i>Infection</i> , 2022 , 1	5.8	3
282	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
281	Effect of intensifying additives on the degradation of thiamethoxam using ultrasound cavitation. <i>Ultrasonics Sonochemistry</i> , 2021 , 70, 105310	8.9	7
280	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
279	Production of biologically active peptides by hydrolysis of whey protein isolates using hydrodynamic cavitation. <i>Ultrasonics Sonochemistry</i> , 2021 , 71, 105385	8.9	5
278	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
277	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
276	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
275	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, 108486	2.7	3
274	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
273	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
272	Cotton based composite fabric reinforced with waste polyester fibers for improved mechanical properties. <i>Waste Management</i> , 2020 , 107, 227-234	8.6	21
271	Palladium supported on nano-hybrid ZrAl ₃ catalyst for hydrogenation of 2-ethylanthraquinone. <i>Indian Chemical Engineer</i> , 2020 , 1-15	1	1
270	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

269	Laccase immobilized peroxidase mimicking magnetic metal organic frameworks for industrial dye degradation. <i>Bioresource Technology</i> , 2020 , 317, 124035	11	24
268	Computational Fluid Dynamic Study of Biomass Cook StovePart 2: Devolatilization and Heterogeneous Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 14507-14521	3.9	2
267	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
266	Computational Fluid Dynamics Study of Biomass Cook StovePart 1: Hydrodynamics and Homogeneous Combustion. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 4161-4176	3.9	6
265	Evaluation of gypsum (CaSO ₄ ·2H ₂ 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
264	Critical Assessment of Performance of a Draft Tube Configured in a Spouted Bed for Various FluidParticle Properties. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 19670-19680	3.9	5
263	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
262	Hydrodynamic cavitation for energy efficient and scalable process of microalgae cell disruption. <i>Algal Research</i> , 2019 , 40, 101496	5	22
261	Cavitationally Driven Transformations: A Technique of Process Intensification. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5797-5819	3.9	27
260	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
259	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
258	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
257	Ultrasound assisted methanolysis of polycarbonate at room temperature. <i>Ultrasonics Sonochemistry</i> , 2019 , 58, 104667	8.9	13
256	Single and multiphase CFD simulations for designing cavitating venturi. <i>Chemical Engineering Research and Design</i> , 2019 , 149, 1-12	5.5	10
255	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
254	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
253	Large scale microbial cell disruption using hydrodynamic cavitation: Energy saving options. <i>Biochemical Engineering Journal</i> , 2019 , 143, 151-160	4.2	23
252	Preparation of antibacterial peel-off facial mask formulation incorporating biosynthesized silver nanoparticles. <i>Applied Nanoscience (Switzerland)</i> , 2019 , 9, 279-287	3.3	9

251	Clean Water for Developing Countries: Feasibility of Different Treatment Solutions 2019 , 643-652		3
250	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
249	Light-weight thermal insulating fly ash cenosphere ceramics. <i>International Journal of Applied Ceramic Technology</i> , 2018 , 15, 1467-1477	2	3
248	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
247	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
246	Kinetic Modelling of Hydrogenation of Cardanol over Pd/C Catalyst. <i>Indian Chemical Engineer</i> , 2018 , 60, 88-103	1	1
245	Parameters Affecting Efficient Solid Circulation Rate in Draft Tube Spouted Bed. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 8605-8611	3.9	9
244	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
243	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
242	Magnetic Pd@FeO composite nanostructure as recoverable catalyst for sonoelectrohybrid degradation of Ibuprofen. <i>Ultrasonics Sonochemistry</i> , 2017 , 34, 262-272	8.9	17
241	Treatment of Industrial and Municipal Wastewater: An Overview about Basic and Advanced Concepts 2017 , 469-520		
240	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
239	Image analysis based validation and kinetic parameter estimation of rice cooking. <i>Journal of Food Process Engineering</i> , 2017 , 40, e12552	2.4	4
238	Ultrasonic hyperactivation of cellulase immobilized on magnetic nanoparticles. <i>Bioresource Technology</i> , 2017 , 239, 117-126	11	74
237	Sustained release formulations of citronella oil nanoemulsion using cavitation techniques. <i>Ultrasonics Sonochemistry</i> , 2017 , 36, 367-374	8.9	37
236	Sonochemical effect induced by hydrodynamic cavitation: Comparison of venturi/orifice flow geometries. <i>AIChE Journal</i> , 2017 , 63, 4705-4716	3.6	37
235	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
234	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

233	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
232	Sono-crystallization kinetics of KSO: Estimation of nucleation, growth, breakage and agglomeration kinetics. <i>Ultrasonics Sonochemistry</i> , 2017 , 35, 196-203	8.9	30
231	Modeling the effect of carbon-dioxide gas on cavitation. <i>Ultrasonics Sonochemistry</i> , 2017 , 34, 721-728	8.9	20
230	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
229	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
228	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
227	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
226	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
225	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
224	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
223	Design and development of energy efficient continuous cooking system. <i>Journal of Food Engineering</i> , 2016 , 168, 231-239	6	8
222	Vacuum pyrolysed biochar for soil amendment. <i>Resource-efficient Technologies</i> , 2016 , 2, S177-S185	2	22
221	Hydrodynamic cavitation: an advanced oxidation process for the degradation of bio-refractory pollutants. <i>Reviews in Chemical Engineering</i> , 2016 , 32,	5	66
220	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
219	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
218	Synthesis of glycinamides using protease immobilized magnetic nanoparticles. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2016 , 12, 13-25	5.3	31
217	A critical review on textile wastewater treatments: Possible approaches. <i>Journal of Environmental Management</i> , 2016 , 182, 351-366	7.9	947
216	Continuous precipitation of calcium carbonate using sonochemical reactor. <i>Ultrasonics Sonochemistry</i> , 2015 , 24, 132-9	8.9	44

215	Microbial disinfection of seawater using hydrodynamic cavitation. <i>Separation and Purification Technology</i> , 2015 , 151, 31-38	8.3	34
214	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
213	Clean Water for Developing Countries. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2015 , 6, 217-46	8.9	32
212	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
211	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
210	Ultrasound assisted transesterification of waste cooking oil using heterogeneous solid catalyst. <i>Ultrasonics Sonochemistry</i> , 2015 , 22, 278-86	8.9	81
209	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
208	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
207	Ultrasound assisted manufacturing of paraffin wax nanoemulsions: process optimization. <i>Ultrasonics Sonochemistry</i> , 2015 , 23, 201-7	8.9	66
206	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
205	A review on sonoelectrochemical technology as an upcoming alternative for pollutant degradation. <i>Ultrasonics Sonochemistry</i> , 2015 , 27, 210-234	8.9	53
204	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
203	Kinetics of cooking of rice: A review. <i>Journal of Food Engineering</i> , 2014 , 123, 113-129	6	36
202	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
201	Advanced Oxidation Technologies for Wastewater Treatment 2014 , 141-191		23
200	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
199	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
198	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

197	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
196	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
195	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
194	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
193	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
192	Crystal Shape Evolution Using Polyhedral Population Balance. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18966-18974	3.9	6
191	Degradation of reactive orange 4 dye using hydrodynamic cavitation based hybrid techniques. <i>Ultrasonics Sonochemistry</i> , 2014 , 21, 1075-82	8.9	92
190	Treatment of cyanide containing wastewater using cavitation based approach. <i>Ultrasonics Sonochemistry</i> , 2014 , 21, 1392-9	8.9	40
189	Crystallisation of ferrous sulphate heptahydrate: Experiments and modelling. <i>Canadian Journal of Chemical Engineering</i> , 2013 , 91, 47-53	2.3	7
188	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
187	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
186	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
185	Investigations into ultrasound induced atomization. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 254-64	8.9	70
184	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
183	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
182	Optimization of biodiesel production in a hydrodynamic cavitation reactor using used frying oil. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 322-8	8.9	118
181	Effect of geometry of hydrodynamically cavitating device on degradation of orange-G. <i>Ultrasonics Sonochemistry</i> , 2013 , 20, 345-53	8.9	84
180	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

179	Cost effective design of compound parabolic collector for steam generation. <i>Solar Energy</i> , 2013 , 90, 43-50	308	39
178	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
177	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
176	Process Intensification and Green Processing Using Cavitation Reactors 2013 , 199-225		1
175	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
174	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
173	Using cavitation for delignification of wood. <i>Bioresource Technology</i> , 2012 , 110, 697-700	11	26
172	One pot green synthesis of nano sized zinc oxide by sonochemical method. <i>Materials Letters</i> , 2012 , 77, 93-95	3.3	34
171	Solar energy assisted palladium nanoparticles synthesis in aqueous medium. <i>Materials Letters</i> , 2012 , 79, 1-3	3.3	19
170	Analysis of semibatch emulsion polymerization: role of ultrasound and initiator. <i>Ultrasonics Sonochemistry</i> , 2012 , 19, 97-103	8.9	65
169	Cavitationally induced biodegradability enhancement of a distillery wastewater. <i>Journal of Hazardous Materials</i> , 2012 , 219-220, 69-74	12.8	57
168	Development of Efficient Designs of Cooking Systems. I. Experimental. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1878-1896	3.9	11
167	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
166	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
165	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
164	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
163	Intensification Approaches for Biodiesel Synthesis from Waste Cooking Oil: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14610-14628	3.9	153
162	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

161	Effect of Sintering Temperatures on the Synthesis of SnO ₂ Nanospheres. <i>ISRN Chemical Engineering</i> , 2012 , 2012, 1-7		6
160	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
159	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
158	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
157	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
156	Dynamics of Photothermally Created Vapor, Gaseous, and Mixed Microbubbles. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 6611-6617	3.8	14
155	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
154	Degradation of Reactive Red 120 dye using hydrodynamic cavitation. <i>Chemical Engineering Journal</i> , 2011 , 178, 100-107	14.7	165
153	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
152	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
151	Measurement and interpretation of cavitation noise in a hybrid hydrodynamic cavitating device. <i>AIChE Journal</i> , 2011 , 57, 861-871	3.6	7
150	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
149	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
148	Studies of internal gelation for the production of microspheres: sonication assisted gelation. <i>Ultrasonics Sonochemistry</i> , 2011 , 18, 250-7	8.9	7
147	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
146	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
145	Synthesis of zirconium dioxide by ultrasound assisted precipitation: effect of calcination temperature. <i>Ultrasonics Sonochemistry</i> , 2011 , 18, 1128-37	8.9	53
144	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

143	Visbreaking Studies in the Presence of Soaker Internals. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 11221-11231	3.9	4
142	Quantification of the energy required for the destruction of Balanus amphitrite larva by ultrasonic treatment. <i>Journal of the Marine Biological Association of the United Kingdom</i> , 2010 , 90, 1475-1482	1.1	11
141	Matching Chemistry with Chemical Engineering for Optimum Design and Performance of Pharmaceutical Processing 2010 , 443-467		
140	Enzymatic hydrolysis of oil in a spray column. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2010 , 67, 1-9		6
139	Enzymatic acyl modification of phosphatidylcholine using immobilized lipase and phospholipase A2. <i>European Journal of Lipid Science and Technology</i> , 2010 , 112, 428-433	3	6
138	Modelling of solid fuel stoves. <i>Fuel</i> , 2010 , 89, 782-791	7.1	25
137	Excess cell mass as an internal carbon source for biological denitrification. <i>Bioresource Technology</i> , 2010 , 101, 1787-91	11	29
136	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
135	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
134	Cavitation milling of natural cellulose to nanofibrils. <i>Ultrasonics Sonochemistry</i> , 2010 , 17, 845-52	8.9	92
133	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
132	Cavitation Generation and Usage Without Ultrasound: Hydrodynamic Cavitation 2010 , 69-106		6
131	Use of ultrasound in petroleum residue upgradation. <i>Canadian Journal of Chemical Engineering</i> , 2009 , 87, 329-342	2.3	18
130	Oscillating bubble concentration and its size distribution using acoustic emission spectra. <i>Ultrasonics Sonochemistry</i> , 2009 , 16, 105-15	8.9	49
129	Ultrasound assisted synthesis of isopropyl esters from palm fatty acid distillate. <i>Ultrasonics Sonochemistry</i> , 2009 , 16, 345-50	8.9	72
128	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
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