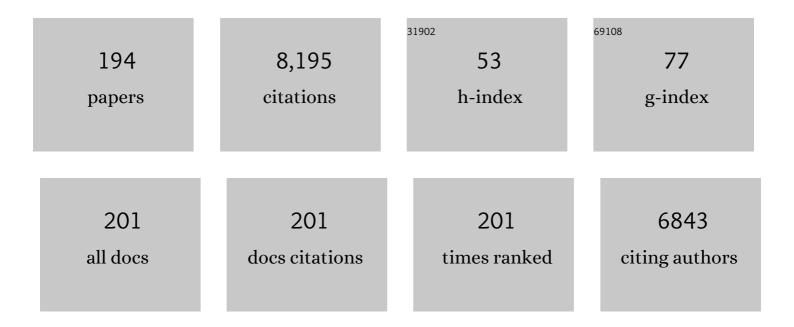
Vijayanand Moholkar

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Sulfadiazine degradation by combination of hydrodynamic cavitation and Fenton–persulfate: parametric optimization and deduction of chemical mechanism. Environmental Science and Pollution Research, 2023, 30, 25569-25581.	2.7	7
2	Sonochemical Synthesis of Poly(lactic acid) Nanocomposites with ZnO Nanoflowers: Effect of Nanofiller Morphology on Physical Properties. ACS Engineering Au, 2022, 2, 46-60.	2.3	7
3	Ultrasound-assisted biodiesel synthesis by in–situ transesterification of microalgal biomass: Optimization and kinetic analysis. Algal Research, 2022, 61, 102582.	2.4	17
4	Circular bioeconomy for biodiesel industry: Upgradation of waste glycerol to value-added products. , 2022, , 419-438.		3
5	Ultrasound-assisted facile one-pot synthesis of ternary MWCNT/MnO2/rGO nanocomposite for high performance supercapacitors with commercial-level mass loadings. Ultrasonics Sonochemistry, 2022, 82, 105896.	3.8	22
6	Influence of different salts of alkali and alkaline earth metals on the pyrolysis of <i>Prosopis juliflora</i> . Biofuels, Bioproducts and Biorefining, 2022, 16, 1038-1049.	1.9	4
7	Magnetite–Graphene-Based Composites and Their Potential Application as Supercapacitor Electrode Material. , 2022, , 1-37.		0
8	Improved energy density of reduced graphene oxide based aqueous symmetric supercapacitors in redox-active and "water-in-salt―electrolytes. Journal of Energy Storage, 2022, 52, 105006.	3.9	10
9	Biomass blend derived porous carbon for aqueous supercapacitors with commercial-level mass loadings and enhanced energy density in redox-active electrolyte. Applied Surface Science, 2022, 601, 154202.	3.1	30
10	Impact of mild and harsh conditions of formic acid-based organosolv pretreatment on biomass fractionation of sugarcane tops. Biomass Conversion and Biorefinery, 2021, 11, 2027-2040.	2.9	14
11	A comparative study on synthesis and characterization of biochars derived from lignocellulosic biomass for their candidacy in agronomy and energy applications. International Journal of Energy Research, 2021, 45, 4765-4781.	2.2	32
12	Production of nutraceutical astaxanthin from waste resources. , 2021, , 181-205.		1
13	A Comprehensive Study on Utilization of Producer Gas as IC Engine Fuel. Energy, Environment, and Sustainability, 2021, , 117-147.	0.6	1
14	Magnetic nanomaterials-based photocatalyst for wastewater treatment. , 2021, , 241-276.		0
15	Fenton with zero-valent iron nanoparticles (nZVI) processes: Role of nanomaterials. , 2021, , 847-866.		0
16	Fermentation and pyrolysis of Finger millet straw: Significance of hydrolysate composition for ethanol production and characterization of bio-oil. Bioresource Technology Reports, 2021, 13, 100630.	1.5	6
17	Mechanistic investigation in ultrasoundâ€assisted interesterification using nonâ€edible oil blends and heterogeneous catalyst. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2638.	0.8	5
18	Two-Step Saccharification of the Xylan Portion of Sugarcane Waste by Recombinant Xylanolytic Enzymes for Enhanced Xylose Production. ACS Omega, 2021, 6, 11772-11782.	1.6	6

#	Article	IF	CITATIONS
19	Physico–chemical characterization and pyrolysis kinetics of Eichhornia Crassipes, Thevetia Peruviana, and Saccharum Officinarum. Fuel, 2021, 289, 119949.	3.4	22
20	Improvement of Supercapacitor Performance through Enhanced Interfacial Interactions Induced by Sonication. Industrial & amp; Engineering Chemistry Research, 2021, 60, 7611-7623.	1.8	18
21	Extraction and characterization of xylan from sugarcane tops as a potential commercial substrate. Journal of Bioscience and Bioengineering, 2021, 131, 647-654.	1.1	14
22	Kinetic modelling and process engineering aspects of biodesulfurization of liquid fuels: Review and analysis. Bioresource Technology Reports, 2021, 14, 100668.	1.5	18
23	Intensification of pyrene degradation by native Candida tropicalis MTCC 184 with sonication: Kinetic and mechanistic investigation. Chemical Engineering and Processing: Process Intensification, 2021, 164, 108415.	1.8	6
24	Investigations in influence of different pretreatments on A. donax pyrolysis: Trends in product yield, distribution and chemical composition. Journal of Analytical and Applied Pyrolysis, 2021, 158, 105276.	2.6	8
25	Mechanistic analysis of carbamazepine degradation in hybrid advanced oxidation process of hydrodynamic cavitation/UV/persulfate in the presence of ZnO/ZnFe2O4. Separation and Purification Technology, 2021, 270, 118764.	3.9	38
26	p–nitrophenol degradation by hybrid advanced oxidation process of heterogeneous Fenton assisted hydrodynamic cavitation: Discernment of synergistic interactions and chemical mechanism. Chemosphere, 2021, 283, 131114.	4.2	26
27	Alkaline pretreatment and response surface methodology based recombinant enzymatic saccharification and fermentation of sugarcane tops. Bioresource Technology, 2021, 341, 125837.	4.8	11
28	Mechanistic investigations in sonoenzymatic synthesis of n-butyl levulinate. Process Biochemistry, 2021, 111, 147-158.	1.8	11
29	Bioconversion of sugarcane tops to bioethanol and other value added products: An overview. Materials Science for Energy Technologies, 2021, 4, 54-68.	1.0	25
30	Separation and characterization of cellulose from sugarcane tops and its saccharification by recombinant cellulolytic enzymes. Preparative Biochemistry and Biotechnology, 2021, 51, 811-820.	1.0	7
31	Investigation in Sono-photocatalysis Process Using Doped Catalyst and Ferrite Nanoparticles for Wastewater Treatment. Environmental Chemistry for A Sustainable World, 2020, , 171-194.	0.3	6
32	Co–gasification of coal/biomass blends in 50 kWe circulating fluidized bed gasifier. Journal of the Energy Institute, 2020, 93, 99-111.	2.7	33
33	Sulfadiazine degradation using hybrid AOP of heterogeneous Fenton/persulfate system coupled with hydrodynamic cavitation. Chemical Engineering Journal, 2020, 386, 121294.	6.6	64
34	The role of ultrasound in enzymatic degradation mechanism. Journal of the Taiwan Institute of Chemical Engineers, 2020, 107, 54-71.	2.7	6
35	Co-gasification of biomass blends: Performance evaluation in circulating fluidized bed gasifier. Energy, 2020, 192, 116682.	4.5	40
36	Mechanistic investigations in ultrasound-assisted biodegradation of phenanthrene. Ultrasonics Sonochemistry, 2020, 62, 104890.	3.8	10

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37	Extraction, characterization of xylan from Azadirachta indica (neem) sawdust and production of antiproliferative xylooligosaccharides. International Journal of Biological Macromolecules, 2020, 163, 1897-1907.	3.6	26
38	Insight into chemical pretreatment of hardwood (Arundo donax) for improvement of pyrolysis. Bioresource Technology Reports, 2020, 11, 100545.	1.5	7
39	Co–pyrolysis of biomass blends: Characterization, kinetic and thermodynamic analysis. Biomass and Bioenergy, 2020, 143, 105839.	2.9	35
40	Assessment of combination of pretreatment of <i>Sorghum durra </i> stalk and production of chimeric enzyme (Î ² -glucosidase and endo Î ² -1,4 glucanase, <i>Ct </i> GH1-L1- <i>Ct </i> GH5-F194A) and cellobiohydrolase (<i>Ct </i> CBH5A) for saccharification to produce bioethanol. Preparative Biochemistry and Biotechnology, 2020, 50, 883-896.	1.0	6
41	Microalgae based biorefinery: Assessment of wild fresh water microalgal isolate for simultaneous biodiesel and β-carotene production. Bioresource Technology Reports, 2020, 11, 100440.	1.5	11
42	Mechanistic investigation in Co-biodegradation of phenanthrene and pyrene by Candida tropicalis MTCC 184. Chemical Engineering Journal, 2020, 399, 125659.	6.6	11
43	Acacia Xylan as a Substitute for Commercially Available Xylan and Its Application in the Production of Xylooligosaccharides. ACS Omega, 2020, 5, 13729-13738.	1.6	25
44	Statistically designed cellulase mixture for saccharification of pretreated Sorghum durra stalk. Industrial Crops and Products, 2020, 154, 112678.	2.5	6
45	Investigations in physical mechanism of ultrasound-assisted antisolvent batch crystallization of lactose monohydrate from aqueous solutions. Ultrasonics Sonochemistry, 2020, 67, 105127.	3.8	17
46	Mechanistic investigations in ultrasound-induced intensification of fermentative riboflavin production. Bioresource Technology Reports, 2020, 9, 100380.	1.5	3
47	Mechanistic study of sulfadiazine degradation by ultrasound-assisted Fenton-persulfate system using yolk-shell Fe3O4@hollow@mSiO2 nanoparticles. Chemical Engineering Science, 2020, 217, 115522.	1.9	37
48	Waste biorefinery based on waste carbon sources: case study of biodiesel production using carbon based catalysts and mixed feedstocks of nonedible and waste oils. , 2020, , 337-378.		3
49	Microalgal bio-refinery approach for utilization of Tetradesmus obliquus biomass for biodiesel production. Materials Today: Proceedings, 2020, 32, 760-763.	0.9	2
50	Production, Characterization, and Applications of Biodegradable Polymer: Polyhydroxyalkanoates. Materials Horizons, 2020, , 51-94.	0.3	15
51	Physical insights of ultrasound-assisted ethanol production from composite feedstock of invasive weeds. Ultrasonics Sonochemistry, 2019, 51, 378-385.	3.8	15
52	Investigations in ultrasonic enhancement of β-carotene production by isolated microalgal strain Tetradesmus obliquus SGM19. Ultrasonics Sonochemistry, 2019, 58, 104697.	3.8	13
53	Sonochemically Synthesized Lignin Nanoparticles and its Application in the Development of Nanocomposite Hydrogel. Materials Today: Proceedings, 2019, 17, 362-370.	0.9	11
54	Enzymatic hydrolysis of hemicellulose from pretreated Finger millet (Eleusine coracana) straw by recombinant endo-1,4-β-xylanase and exo-1,4-β-xylosidase. International Journal of Biological Macromolecules, 2019, 135, 1098-1106.	3.6	29

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55	Rheological and mechanical properties of PMMA/organoclay nanocomposites prepared via ultrasound-assisted in-situ emulsion polymerization. Korean Journal of Chemical Engineering, 2019, 36, 828-836.	1.2	9
56	Development of bi-functional chimeric enzyme (CtGH1-L1-CtGH5-F194A) from endoglucanase (CtGH5) mutant F194A and β-1,4-glucosidase (CtGH1) from Clostridium thermocellum with enhanced activity and structural integrity. Bioresource Technology, 2019, 282, 494-501.	4.8	25
57	Homologous overexpression of hydrogenase and glycerol dehydrogenase in Clostridium pasteurianum to enhance hydrogen production from crude glycerol. Bioresource Technology, 2019, 284, 168-177.	4.8	30
58	Ultrasound–assisted enzymatic biodiesel production using blended feedstock of non–edible oils: Kinetic analysis. Energy Conversion and Management, 2019, 188, 142-150.	4.4	55
59	Dioxane-based extraction process for production of high quality lignin. Bioresource Technology Reports, 2019, 5, 206-211.	1.5	26
60	Mechanistic investigations in biobutanol synthesis via ultrasound-assisted ABE fermentation using mixed feedstock of invasive weeds. Bioresource Technology, 2019, 272, 389-397.	4.8	23
61	Ultrasound–assisted biodiesel production using heterogeneous base catalyst and mixed non–edible oils. Ultrasonics Sonochemistry, 2019, 52, 232-243.	3.8	59
62	Batch and Repeated-Batch Fermentation for 1,3-Dihydroxyacetone Production from Waste Glycerol Using Free, Immobilized and Resting Gluconobacter oxydans Cells. Waste and Biomass Valorization, 2019, 10, 2455-2465.	1.8	15
63	Discernment of synergism in pyrolysis of biomass blends using thermogravimetric analysis. Bioresource Technology, 2018, 261, 294-305.	4.8	173
64	Mechanistic investigations in ultrasonic pretreatment and anaerobic digestion of landfill leachates. Journal of Environmental Chemical Engineering, 2018, 6, 1690-1701.	3.3	22
65	Investigations in sonication-induced intensification of crude glycerol fermentation to dihydroxyacetone by free and immobilized Gluconobacter oxydans. Bioresource Technology, 2018, 256, 302-311.	4.8	36
66	Ultrasound-assisted synthesis and characterization of magnetite nanoparticles and poly(methyl) Tj ETQq0 0 0 rg	BT /Qverlc	ock ₃ 90 Tf 50 3
67	Synergistic Effects in Gasification of Coal/Biomass Blends: Analysis and Review. Energy, Environment, and Sustainability, 2018, , 473-497.	0.6	16
68	Gasification of Mixed Biomass: Analysis Using Equilibrium, Semi-equilibrium, and Kinetic Models. Energy, Environment, and Sustainability, 2018, , 223-241.	0.6	10
69	Structural, magnetic and optical properties of sonochemically synthesized Zr-ferrite nanoparticles. Powder Technology, 2018, 328, 1-6.	2.1	22
70	Investigations in ultrasound–induced enhancement of astaxanthin production by wild strain Phaffia rhodozyma MTCC 7536. Bioresource Technology, 2018, 254, 166-173.	4.8	37
71	Ultrasound-Assisted Biodiesel Production Using KI-Impregnated Zinc Oxide (ZnO) as Heterogeneous Catalyst: A Mechanistic Approach. Springer Proceedings in Energy, 2018, , 67-81.	0.2	3
72	Kinetic and thermodynamic analysis of dilute acid hydrolysis of sugarcane bagasse. Bioresource	4.8	58

Technology, 2018, 250, 197-203.

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73	A Comprehensive Kinetic Analysis of Bamboo Waste Using Thermogravimetric Analysis. , 2018, , .		7
74	Mechanistic investigations in ultrasound-assisted extraction of astaxanthin from Phaffia rhodozyma MTCC 7536. Bioresource Technology Reports, 2018, 4, 166-173.	1.5	5
75	Ultrasound-Intensified Biodiesel Production from Mixed Nonedible Oil Feedstock Using Heterogeneous Acid Catalyst Supported on Rubber De-oiled Cake. Industrial & Engineering Chemistry Research, 2018, 57, 14926-14938.	1.8	24
76	Mechanistic investigations in sonochemical degradation of trihalomethanes in presence of non–porous and mesoporous silica nanospheres. Journal of Water Process Engineering, 2018, 24, 26-34.	2.6	2
77	Comparative analysis of pretreatment methods on sorghum (<i>Sorghum durra</i>) stalk agrowaste for holocellulose content. Preparative Biochemistry and Biotechnology, 2018, 48, 457-464.	1.0	24
78	Synthesis of Bioethanol From Invasive Weeds: Process Design, Optimization, and Intensification With Ultrasound. , 2018, , 445-485.		3
79	Mechanistic investigations in ultrasound-assisted xylitol fermentation. Ultrasonics Sonochemistry, 2018, 48, 321-328.	3.8	20
80	Ultrasonic enhancement of xylitol production from sugarcane bagasse using immobilized Candida tropicalis MTCC 184. Bioresource Technology, 2018, 268, 247-258.	4.8	23
81	Production, ultrasonic extraction, and characterization of poly (3â€hydroxybutyrate) (PHB) using <scp> <i>Bacillus megaterium</i> </scp> and <i>Cupriavidus necator</i> . Polymers for Advanced Technologies, 2018, 29, 2392-2400.	1.6	82
82	Ultrasound-Assisted Biodiesel Synthesis: A Mechanistic Insight. Green Energy and Technology, 2017, , 103-135.	0.4	6
83	Sonochemical effect induced by hydrodynamic cavitation: Comparison of venturi/orifice flow geometries. AICHE Journal, 2017, 63, 4705-4716.	1.8	60
84	Ultrasound-assisted synthesis of poly(MMA–co–BA)/ZnO nanocomposites with enhanced physical properties. Ultrasonics Sonochemistry, 2017, 39, 782-791.	3.8	14
85	Mechanistic analysis of ultrasound-assisted biodiesel synthesis with Cu 2 O catalyst and mixed oil feedstock using continuous (packed bed) and batch (slurry) reactors. Chemical Engineering Science, 2017, 170, 743-755.	1.9	34
86	Metabolic flux network analysis of hydrogen production from crude glycerol by Clostridium pasteurianum. Bioresource Technology, 2017, 242, 169-177.	4.8	46
87	Microbial production, ultrasound-assisted extraction and characterization of biopolymer polyhydroxybutyrate (PHB) from terrestrial (P. hysterophorus) and aquatic (E. crassipes) invasive weeds. Bioresource Technology, 2017, 242, 304-310.	4.8	81
88	Process optimization and analysis of product inhibition kinetics of crude glycerol fermentation for 1,3-Dihydroxyacetone production. Bioresource Technology, 2017, 244, 362-370.	4.8	32
89	Mechanistic investigations in sono-hybrid (ultrasound/Fe2+/UVC) techniques of persulfate activation for degradation of Azorubine. Ultrasonics Sonochemistry, 2017, 38, 652-663.	3.8	89
90	Enhancement of thermal and mechanical properties of poly(MMA-co-BA)/Cloisite 30B nanocomposites by ultrasound-assisted in-situ emulsion polymerization. Ultrasonics Sonochemistry, 2017, 36, 212-225.	3.8	29

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91	Co-gasification of coal and biomass blends: Chemistry and engineering. Fuel, 2017, 204, 106-128.	3.4	155
92	Ultrasound-assisted bioalcohol synthesis: review and analysis. RSC Advances, 2016, 6, 65541-65562.	1.7	30
93	Sonochemical Synthesis of PMMA/Cloisite 30B Nanocomposites: A Mechanistic Investigation. Macromolecular Symposia, 2016, 361, 82-100.	0.4	18
94	Kinetic analysis of dihydroxyacetone production from crude glycerol by immobilized cells of Gluconobacter oxydans MTCC 904. Bioresource Technology, 2016, 216, 948-957.	4.8	31
95	An assessment of the potential of invasive weeds as multiple feedstocks for biofuel production. RSC Advances, 2016, 6, 47151-47163.	1.7	29
96	Kinetic and thermodynamic analysis (with statistical optimization) of hydrogen production from crude glycerol using Clostridium pasteurianum. International Journal of Hydrogen Energy, 2016, 41, 19972-19989.	3.8	32
97	Mathematical Models for Sonochemical Effects Induced by Hydrodynamic Cavitation. , 2016, , 625-671.		0
98	Investigations in two-step ultrasonic synthesis of PMMA/ZnO nanocomposites by in–situ emulsion polymerization. Polymer, 2016, 99, 453-469.	1.8	40
99	Physical insight into ultrasound-assisted biodesulfurization using free and immobilized cells of Rhodococcus rhodochrous MTCC 3552. Chemical Engineering Journal, 2016, 295, 254-267.	6.6	45
100	Mechanistic analysis of hybrid sono-photo-ferrioxalate system for decolorization of azo dye. Journal of the Taiwan Institute of Chemical Engineers, 2016, 60, 469-478.	2.7	37
101	Investigations in sono-enzymatic degradation of ibuprofen. Ultrasonics Sonochemistry, 2016, 29, 485-494.	3.8	33
102	Mechanistic investigation in ultrasound induced enhancement of enzymatic hydrolysis of invasive biomass species. Bioresource Technology, 2016, 213, 342-349.	4.8	41
103	Optimization of 1,3-dihydroxyacetone production from crude glycerol by immobilized Gluconobacter oxydans MTCC 904. Bioresource Technology, 2016, 216, 1058-1065.	4.8	42
104	Synthesis of bi-metallic oxides nanotubes for fast removal of dye using adsorption and sonocatalysis process. Journal of Industrial and Engineering Chemistry, 2016, 37, 84-89.	2.9	34
105	Mechanistic analysis of sono-photolysis degradation of carmoisine. Journal of Industrial and Engineering Chemistry, 2016, 33, 276-287.	2.9	34
106	Bioenergy from rice crop residues: role in developing economies. Clean Technologies and Environmental Policy, 2016, 18, 373-394.	2.1	28
107	Sonochemical synthesis of mesoporous ZrFe ₂ O ₅ and its application for degradation of recalcitrant pollutants. RSC Advances, 2015, 5, 53529-53542.	1.7	54

108 Mathematical Models for Sonochemical Effects Induced by Hydrodynamic Cavitation. , 2015, , 1-48.

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109	Investigations in physical mechanism of the oxidative desulfurization process assisted simultaneously by phase transfer agent and ultrasound. Ultrasonics Sonochemistry, 2015, 24, 98-106.	3.8	62
110	Biomass Gasification Integrated Fischer-Tropsch Synthesis. , 2015, , 383-435.		17
111	Design and optimization of a sono-hybrid process for bioethanol production from Parthenium hysterophorus. Journal of the Taiwan Institute of Chemical Engineers, 2015, 51, 71-78.	2.7	23
112	Mechanistic analysis of ultrasound assisted enzymatic desulfurization of liquid fuels using horseradish peroxidase. Bioresource Technology, 2015, 196, 88-98.	4.8	34
113	Ultrasound enhanced enzymatic hydrolysis of Parthenium hysterophorus: A mechanistic investigation. Bioresource Technology, 2015, 192, 636-645.	4.8	32
114	Mechanistic insight into ultrasound induced enhancement of simultaneous saccharification and fermentation of Parthenium hysterophorus for ethanol production. Ultrasonics Sonochemistry, 2015, 26, 249-256.	3.8	37
115	Ultrasound assisted biodesulfurization of liquid fuel using free and immobilized cells of Rhodococcus rhodochrous MTCC 3552: A mechanistic investigation. Bioresource Technology, 2015, 187, 369-378.	4.8	77
116	Dye decolorization with hybrid advanced oxidation processes comprising sonolysis/Fenton-like/photo-ferrioxalate systems: A mechanistic investigation. Separation and Purification Technology, 2015, 156, 596-607.	3.9	72
117	Intensification of Wastewater Treatment using Sono-hybrid Processes: An Overview of Mechanistic Synergism. Indian Chemical Engineer, 2015, 57, 359-381.	0.9	31
118	Mechanistic insight into phase transfer agent assisted ultrasonic desulfurization. RSC Advances, 2015, 5, 102953-102964.	1.7	26
119	Ultrasound enhanced ethanol production from Parthenium hysterophorus: A mechanistic investigation. Bioresource Technology, 2015, 188, 287-294.	4.8	35
120	Purification and characterization of acidic cellulase from <i>Bacillus amyloliquefaciens</i> SS35 for hydrolyzing <i>Parthenium hysterophorus</i> biomass. Environmental Progress and Sustainable Energy, 2015, 34, 810-818.	1.3	15
121	Investigation in mechanistic issues of sonocatalysis and sonophotocatalysis using pure and doped photocatalysts. Ultrasonics Sonochemistry, 2015, 22, 287-299.	3.8	104
122	Screening and optimization of pretreatments for Parthenium hysterophorus as feedstock for alcoholic biofuels. Applied Energy, 2014, 129, 195-206.	5.1	67
123	Mechanistic insight into sonochemical biodiesel synthesis using heterogeneous base catalyst. Ultrasonics Sonochemistry, 2014, 21, 169-181.	3.8	80
124	Mechanistic investigations in sono-hybrid techniques for rice straw pretreatment. Ultrasonics Sonochemistry, 2014, 21, 200-207.	3.8	43
125	Alcoholic Biofuels Production from Biodiesel Derived Glycerol by Clostridium pasteurianum Whole Cells Immobilized on Silica. Waste and Biomass Valorization, 2014, 5, 789-798.	1.8	10
126	Ultrasonic biodiesel synthesis from crude Jatropha curcas oil with heterogeneous base catalyst: Mechanistic insight and statistical optimization. Ultrasonics Sonochemistry, 2014, 21, 1050-1064.	3.8	85

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127	Optimization of carboxymethylcellulase production from Bacillus amyloliquefaciens SS35. 3 Biotech, 2014, 4, 411-424.	1.1	37
128	Singleâ€step ultrasonic synthesis of biodiesel from crude <i>Jatropha curcas</i> oil. AICHE Journal, 2014, 60, 1572-1581.	1.8	22
129	Mechanistic Investigation in Ultrasound-Assisted (Alkaline) Delignification of <i>Parthenium hysterophorus</i> Biomass. Industrial & Engineering Chemistry Research, 2014, 53, 14241-14252.	1.8	57
130	Investigations in Synergism of Hybrid Advanced Oxidation Processes with Combinations of Sonolysis + Fenton Process + UV for Degradation of Bisphenol A. Industrial & Engineering Chemistry Research, 2014, 53, 6855-6865.	1.8	77
131	Mechanistic insight into sono-enzymatic degradation of organic pollutants with kinetic and thermodynamic analysis. Ultrasonics Sonochemistry, 2014, 21, 1400-1406.	3.8	38
132	EFFECT OF FERMENTATION PARAMETERS ON BIO-ALCOHOLS PRODUCTION FROM GLYCEROL USING IMMOBILIZED <i>Clostridium pasteurianum</i> : AN OPTIMIZATION STUDY. Preparative Biochemistry and Biotechnology, 2013, 43, 828-847.	1.0	19
133	Production of n-butanol from biodiesel derived crude glycerol using Clostridium pasteurianum immobilized on Amberlite. Fuel, 2013, 112, 557-561.	3.4	71
134	Sonoenzymatic decolourization of an azo dye employing immobilized horse radish peroxidase (HRP): A mechanistic study. Journal of Hazardous Materials, 2013, 256-257, 90-97.	6.5	40
135	Phase diagrams for dual frequency sonic processors using organic liquid medium. Chemical Engineering Science, 2013, 100, 137-144.	1.9	16
136	Development of semi-defined rice straw-based medium for butanol production and its kinetic study. 3 Biotech, 2013, 3, 353-364.	1.1	11
137	Physical mechanism of sonoâ€Fenton process. AICHE Journal, 2013, 59, 4303-4313.	1.8	119
138	Mechanistic investigation of the sonochemical synthesis of zinc ferrite. Ultrasonics Sonochemistry, 2013, 20, 294-302.	3.8	59
139	Feasibility of rice straw as alternate substrate for biobutanol production. Applied Energy, 2013, 103, 32-38.	5.1	105
140	Acid catalyzed biodiesel synthesis from Jatropha oil: Mechanistic aspects of ultrasonic intensification. Chemical Engineering Journal, 2013, 231, 262-272.	6.6	103
141	Sonochemical Synthesis and Characterization of Manganese Ferrite Nanoparticles. Industrial & Engineering Chemistry Research, 2013, 52, 17848-17855.	1.8	99
142	Process optimization for butanol production from developed rice straw hydrolysate using Clostridium acetobutylicum MTCC 481 strain. Biomass Conversion and Biorefinery, 2013, 3, 143-155.	2.9	46
143	Mechanistic Features of Oxidative Desulfurization Using Sono-Fenton–Peracetic Acid (Ultrasound/Fe ²⁺ –CH ₃ COOH–H ₂ O ₂) System. Industrial & Engineering Chemistry Research, 2013, 52, 9038-9047.	1.8	106
144	Comparative study of various pretreatment techniques for rice straw saccharification for the production of alcoholic biofuels. Fuel, 2013, 112, 567-571.	3.4	93

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145	Mathematical models of ABE fermentation: review and analysis. Critical Reviews in Biotechnology, 2013, 33, 419-447.	5.1	47
146	Sonochemical Synthesis of Cobalt Ferrite Nanoparticles. International Journal of Chemical Engineering, 2013, 2013, 1-6.	1.4	41
147	Isolation, Identification, and Characterization of a Cellulolytic <i>Bacillus amyloliquefaciens</i> Strain SS35 from Rhinoceros Dung. , 2013, 2013, 1-7.		56
148	Mechanistic investigation of ultrasonic enhancement of glycerol bioconversion by immobilized <i>Clostridium pasteurianum</i> on silica support. Biotechnology and Bioengineering, 2013, 110, 1637-1645.	1.7	36
149	Numerical Simulation and Investigation of System Parameters of Sonochemical Process. Chinese Journal of Engineering, 2013, 2013, 1-14.	1.0	36
150	Ultrasound enhanced bioconversion of glycerol by Clostridium pasteurianum: A mechanistic investigation. Chemical Engineering Journal, 2012, 200-202, 416-425.	6.6	40
151	Thermodynamic Approach to Design and Optimization of Biomass Gasifier Utilizing Agro-Residues. Green Energy and Technology, 2012, , 157-195.	0.4	1
152	Mechanistic Features of Ultrasound-Assisted Oxidative Desulfurization of Liquid Fuels. Industrial & amp; Engineering Chemistry Research, 2012, 51, 9705-9712.	1.8	60
153	Performance correlations for biomass gasifiers using semi-equilibrium non-stoichiometric thermodynamic models. International Journal of Energy Research, 2012, 36, 590-618.	2.2	14
154	Flow regime maps and optimization thereby of hydrodynamic cavitation reactors. AICHE Journal, 2012, 58, 3858-3866.	1.8	33
155	Microbial conversion of glycerol: present status and future prospects. Critical Reviews in Biotechnology, 2012, 32, 235-262.	5.1	84
156	Mechanistic and kinetic investigations in ultrasound assisted acid catalyzed biodiesel synthesis. Chemical Engineering Journal, 2012, 187, 248-260.	6.6	77
157	Physical features of ultrasound assisted enzymatic degradation of recalcitrant organic pollutants. Ultrasonics Sonochemistry, 2012, 19, 104-118.	3.8	58
158	Biobutanol: science, engineering, and economics. International Journal of Energy Research, 2012, 36, 277-323.	2.2	141
159	Mechanistic Investigations on Sonophotocatalytic Degradation of Textile Dyes with Surface Active Solutes. Industrial & amp; Engineering Chemistry Research, 2011, 50, 11485-11494.	1.8	46
160	Numerical Assessment of Hydrodynamic Cavitation Reactors Using Organic Solvents. Industrial & Engineering Chemistry Research, 2011, 50, 4769-4775.	1.8	20
161	Mechanistic features of ultrasonic desorption of aromatic pollutants. Chemical Engineering Journal, 2011, 175, 356-367.	6.6	59
162	Investigations in the physical mechanism of sonocrystallization. Ultrasonics Sonochemistry, 2011, 18, 345-355.	3.8	106

#	Article	IF	CITATIONS
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