Muthupandian Ashokkumar

List of Publications by Year
in descending order

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489	26,473	4960 84	11607 135
papers	citations	h-index	g-index

505	505	505	20484
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The characterization of acoustic cavitation bubbles â€“ An overview. Ultrasonics Sonochemistry, 2011, 18, 864-872.	8.2	615
2	The use of ultrasonics for nanoemulsion preparation. Innovative Food Science and Emerging Technologies, 2008, 9, 170-175.	5.6	521
3	Minimising oil droplet size using ultrasonic emulsification. Ultrasonics Sonochemistry, 2009, 16, 721-727.	8.2	516
4	A review on BiVO 4 photocatalyst: Activity enhancement methods for solar photocatalytic applications. Applied Catalysis A: General, 2018, 555, 47-74.	4.3	512
5	Effects of ultrasound on the thermal and structural characteristics of proteins in reconstituted whey protein concentrate. Ultrasonics Sonochemistry, 2011, 18, 951-957.	8.2	489
6	Effect of Power and Frequency on Bubble-Size Distributions in Acoustic Cavitation. Physical Review Letters, 2009, 102, 084302.	7.8	385
7	Modification of food ingredients by ultrasound to improve functionality: A preliminary study on a model system. Innovative Food Science and Emerging Technologies, 2008, 9, 155-160.	5.6	340
8	An overview on semiconductor particulate systems for photoproduction of hydrogen. International Journal of Hydrogen Energy, 1998, 23, 427-438.	7.1	327
9	Sonochemical Synthesis of Gold Nanoparticles:Â Effects of Ultrasound Frequency. Journal of Physical Chemistry B, 2005, 109, 20673-20675.	2.6	321
10	Ultrasonics in food processing. Ultrasonics Sonochemistry, 2012, 19, 975-983.	8.2	318
11	Bubbles in an acoustic field: An overview. Ultrasonics Sonochemistry, 2007, 14, 470-475.	8.2	280
12	Sonoluminescence, sonochemistry (H2O2 yield) and bubble dynamics: Frequency and power effects. Ultrasonics Sonochemistry, 2008, 15, 143-150.	8.2	246
13	Combined advanced oxidation processes for the synergistic degradation of ibuprofen in aqueous environments. Journal of Hazardous Materials, 2010, 178, 202-208.	12.4	241
14	Microbial synthesis of silver nanoparticles by Bacillus sp.. Journal of Nanoparticle Research, 2009, 11, 1811-1815.	1.9	239
15	Applications of ultrasound in food and bioprocessing. Ultrasonics Sonochemistry, 2015, 25, 17-23.	8.2	232
16	Estimation of ultrasound induced cavitation bubble temperatures in aqueous solutions. Ultrasonics Sonochemistry, 2005, 12, 325-329.	8.2	226
17	Recent advances in MoS 2 nanostructured materials for energy and environmental applications â€“ A review. Journal of Solid State Chemistry, 2017, 252, 43-71.	2.9	216
18	Ultrasonic enhancement of the supercritical extraction from ginger. Ultrasonics Sonochemistry, 2006, 13, 471-479.	8.2	215

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19	Application of advanced materials in sonophotocatalytic processes for the remediation of environmental pollutants. Journal of Hazardous Materials, 2021, 412, 125245.	12.4	215
20	Physical and chemical effects of acoustic cavitation in selected ultrasonic cleaning applications. Ultrasonics Sonochemistry, 2016, 29, 568-576.	8.2	212
21	Photocatalytic and photoelectrochemical studies of visible-light active Î±-Fe₂O₃â€“g-C₃N₄ nanocomposites. RSC Advances, 2014, 4, 38222-38229.	3.6	207
22	Sonolytic Design of Grapheneâ^'Au Nanocomposites. Simultaneous and Sequential Reduction of Graphene Oxide and Au(III). Journal of Physical Chemistry Letters, 2010, 1, 1987-1993.	4.6	197
23	Ultrasonics in food processing â€“ Food quality assurance and food safety. Trends in Food Science and Technology, 2012, 26, 88-98.	15.1	192
24	Ultrasonic emulsification: An overview on the preparation of different emulsifiers-stabilized emulsions. Trends in Food Science and Technology, 2020, 105, 363-377.	15.1	189
25	Sonoluminescence from Aqueous Alcohol and Surfactant Solutions. Journal of Physical Chemistry B, 1997, 101, 10845-10850.	2.6	183
26	Synthesis of a visible-light active V₂O₅â€“g-C₃N₄ heterojunction as an efficient photocatalytic and photoelectrochemical material. New Journal of Chemistry, 2015, 39, 1367-1374.	2.8	183
27	Ultrasonic processing of dairy systems in large scale reactors. Ultrasonics Sonochemistry, 2010, 17, 1075-1081.	8.2	182
28	Inactivation of microorganisms by low-frequency high-power ultrasound: 1. Effect of growth phase and capsule properties of the bacteria. Ultrasonics Sonochemistry, 2014, 21, 446-453.	8.2	182
29	Graphene oxide based Ptâ€“TiO2 photocatalyst: Ultrasound assisted synthesis, characterization and catalytic efficiency. Ultrasonics Sonochemistry, 2012, 19, 9-15.	8.2	172
30	Sonochemical Synthesis of Auâ^'Ag Coreâ^'Shell Bimetallic Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 15102-15105.	3.1	170
31	Determination of the Size Distribution of Sonoluminescence Bubbles in a Pulsed Acoustic Field. Journal of the American Chemical Society, 2005, 127, 16810-16811.	13.7	169
32	Ultrasonic preparation of stable flax seed oil emulsions in dairy systems â€“ Physicochemical characterization. Food Hydrocolloids, 2014, 39, 151-162.	10.7	169
33	The effect of ultrasound on the physical and functional properties of skim milk. Innovative Food Science and Emerging Technologies, 2012, 16, 251-258.	5.6	165
34	Sonochemical Formation of Gold Sols. Langmuir, 2002, 18, 7831-7836.	3.5	156
35	Sonoelectrochemistry for energy and environmental applications. Ultrasonics Sonochemistry, 2020, 63, 104960.	8.2	154
36	The ultrasonic processing of dairy products â€“ An overview. Dairy Science and Technology, 2010, 90, 147-168.	2.2	151

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37	The optimisation of ultrasonic cleaning procedures for dairy fouled ultrafiltration membranes. Ultrasonics Sonochemistry, 2005, 12, 29-35.	8.2	150
38	The use of ultrasonic cleaning for ultrafiltration membranes in the dairy industry. Separation and Purification Technology, 2004, 39, 99-107.	7.9	147
39	Mechanisms for the ultrasonic enhancement of dairy whey ultrafiltration. Journal of Membrane Science, 2005, 258, 106-114.	8.2	147
40	Ultrasonic Synthesis of Stable, Functional Lysozyme Microbubbles. Langmuir, 2008, 24, 10078-10083.	3.5	147
41	Synergistic effect of sono-photocatalytic process for the degradation of organic pollutants using CuO-TiO2/rGO. Ultrasonics Sonochemistry, 2019, 50, 218-223.	8.2	147
42	Recent development on carbon based heterostructures for their applications in energy and environment: A review. Journal of Industrial and Engineering Chemistry, 2018, 64, 16-59.	5.8	146
43	The pasting properties of sonicated waxy rice starch suspensions. Ultrasonics Sonochemistry, 2009, 16, 462-468.	8.2	140
44	Sonoâ€RAFT Polymerization in Aqueous Medium. Angewandte Chemie - International Edition, 2017, 56, 12302-12306.	13.8	139
45	Ultrasound and Sonochemistry for Radical Polymerization: Sound Synthesis. Chemistry - A European Journal, 2019, 25, 5372-5388.	3.3	138
46	Ultrasound assisted photocatalytic degradation of diclofenac in an aqueous environment. Chemosphere, 2010, 80, 747-752.	8.2	133
47	Hot topic: Sonication increases the heat stability of whey proteins. Journal of Dairy Science, 2009, 92, 5353-5356.	3.4	131
48	A review on hybrid techniques for the degradation of organic pollutants in aqueous environment. Ultrasonics Sonochemistry, 2020, 67, 105130.	8.2	131
49	Synthesis and characterization of a CuSâ€“WO₃ composite photocatalyst for enhanced visible light photocatalytic activity. RSC Advances, 2015, 5, 52718-52725.	3.6	129
50	CoFe2O4/TiO2 nanocatalysts for the photocatalytic degradation of Reactive Red 120 in aqueous solutions in the presence and absence of electron acceptors. Chemical Engineering Journal, 2013, 220, 302-310.	12.7	123
51	Degradation of orange-G by advanced oxidation processes. Ultrasonics Sonochemistry, 2010, 17, 338-343.	8.2	122
52	Sonochemical oxidation of arsenic(III) to arsenic(V) using potassium peroxydisulfate as an oxidizing agent. Water Research, 2010, 44, 3687-3695.	11.3	122
53	ULTRASOUND ASSISTED CHEMICAL PROCESSES. Reviews in Chemical Engineering, 1999, 15, .	4.4	121
54	Determination of Temperatures within Acoustically Generated Bubbles in Aqueous Solutions at Different Ultrasound Frequencies. Journal of Physical Chemistry B, 2006, 110, 13656-13660.	2.6	119

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55	Diffused sunlight driven highly synergistic pathway for complete mineralization of organic contaminants using reduced graphene oxide supported photocatalyst. Journal of Hazardous Materials, 2015, 291, 83-92.	12.4	119
56	Integrated technique of pulsed laser irradiation and sonochemical processes for the production of highly surface-active NiPd spheres. Chemical Engineering Journal, 2021, 411, 128486.	12.7	119
57	Ultrasonic encapsulation â€“ A review. Ultrasonics Sonochemistry, 2017, 35, 605-614.	8.2	116
58	Study of the Coalescence of Acoustic Bubbles as a Function of Frequency, Power, and Water-Soluble Additives. Journal of the American Chemical Society, 2007, 129, 6031-6036.	13.7	114
59	Effect of ultrasound on the physical and functional properties of reconstituted whey protein powders. Journal of Dairy Research, 2011, 78, 226-232.	1.4	114
60	High-intensity ultrasound: A novel technology for the development of probiotic and prebiotic dairy products. Ultrasonics Sonochemistry, 2019, 57, 12-21.	8.2	110
61	Photocatalytic degradation of Acid Red 88 using Auâ€“TiO2 nanoparticles in aqueous solutions. Water Research, 2008, 42, 4878-4884.	11.3	109
62	Inactivation of bacteria and yeast using high-frequency ultrasound treatment. Water Research, 2014, 60, 93-104.	11.3	109
63	Synthesis of Tunable, Highly Luminescent QD-Glasses Through Sol-Gel Processing. Advanced Materials, 2001, 13, 985-988.	21.0	107
64	A Comparison between Multibubble Sonoluminescence Intensity and the Temperature within Cavitation Bubbles. Journal of the American Chemical Society, 2005, 127, 5326-5327.	13.7	106
65	Ultrasound Assisted Crystallization of Paracetamol: Crystal Size Distribution and Polymorph Control. Crystal Growth and Design, 2016, 16, 1934-1941.	3.0	105
66	The effect of ultrasound on casein micelle integrity. Journal of Dairy Science, 2012, 95, 6882-6890.	3.4	104
67	APPLICATION OF ULTRASOUND IN MEMBRANE SEPARATION PROCESSES: A REVIEW. Reviews in Chemical Engineering, 2006, 22, .	4.4	103
68	The mechanism of sonophotocatalytic degradation of methyl orange and its products in aqueous solutions. Ultrasonics Sonochemistry, 2011, 18, 974-980.	8.2	103
69	Degradation of acid red 88 by the combination of sonolysis and photocatalysis. Separation and Purification Technology, 2010, 74, 336-341.	7.9	101
70	Synthesis of Hierarchical Cobalt Phosphate Nanoflakes and Their Enhanced Electrochemical Performances for Supercapacitor Applications. ChemistrySelect, 2017, 2, 201-210.	1.5	100
71	Effects of high pressure, microwave and ultrasound processing on proteins and enzyme activity in dairy systems â€” A review. Innovative Food Science and Emerging Technologies, 2019, 57, 102192.	5.6	100
72	Sonochemically Prepared Platinumâ^'Ruthenium Bimetallic Nanoparticles. Journal of Physical Chemistry B, 2006, 110, 3849-3852.	2.6	99

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73	Selected Applications of Ultrasonics in Food Processing. Food Engineering Reviews, 2009, 1, 31-49.	5.9	99
74	Use of Power Ultrasound to Improve Extraction and Modify Phase Transitions in Food Processing. Food Reviews International, 2013, 29, 67-91.	8.4	99
75	Inactivation of microorganisms by low-frequency high-power ultrasound: 2. A simple model for the inactivation mechanism. Ultrasonics Sonochemistry, 2014, 21, 454-460.	8.2	99
76	Microstructure, optical and FTIR studies of Ni, Cu co-doped ZnO nanoparticles by co-precipitation method. Optical Materials, 2014, 37, 671-678.	3.6	99
77	Recent advances in the application of ultrasound in dairy products: Effect on functional, physical, chemical, microbiological and sensory properties. Ultrasonics Sonochemistry, 2021, 73, 105467.	8.2	93
78	Sonophotocatalytic degradation of monocrotophos using TiO2 and Fe3+. Journal of Hazardous Materials, 2010, 177, 944-949.	12.4	92
79	Ultrasound Assisted Miniemulsion Polymerization for Preparation of Polypyrroleâ€“Zinc Oxide (PPy/ZnO) Functional Latex for Liquefied Petroleum Gas Sensing. Industrial & Engineering Chemistry Research, 2013, 52, 7704-7712.	3.7	92
80	Comparison of the Effects of Water-Soluble Solutes on Multibubble Sonoluminescence Generated in Aqueous Solutions by 20- and 515-kHz Pulsed Ultrasound. Journal of Physical Chemistry B, 2002, 106, 11064-11068.	2.6	91
81	Ultrasound initiated miniemulsion polymerization of methacrylate monomers. Ultrasonics Sonochemistry, 2008, 15, 89-94.	8.2	91
82	Sonochemical and sustainable synthesis of graphene-gold (G-Au) nanocomposites for enzymeless and selective electrochemical detection of nitric oxide. Biosensors and Bioelectronics, 2017, 87, 622-629.	10.1	91
83	Effect of Surfactants on the Rate of Growth of an Air Bubble by Rectified Diffusion. Journal of Physical Chemistry B, 2005, 109, 14595-14598.	2.6	90
84	The Effect of Surface-Active Solutes on Bubble Coalescence in the Presence of Ultrasound. Journal of Physical Chemistry B, 2005, 109, 5095-5099.	2.6	89
85	The interaction of sonochemically synthesized gold nanoparticles with serum albumins. Journal of Pharmaceutical and Biomedical Analysis, 2010, 53, 804-810.	2.8	89
86	Recent developments on bismuth oxyhalides (BiOX; X = Cl, Br, I) based ternary nanocomposite photocatalysts for environmental applications. Chemosphere, 2021, 282, 131054.	8.2	87
87	The application of ultrasound to dairy ultrafiltration: The influence of operating conditions. Journal of Food Engineering, 2007, 81, 364-373.	5.2	86
88	Spatial Distribution of Acoustic Cavitation Bubbles at Different Ultrasound Frequencies. ChemPhysChem, 2010, 11, 1680-1684.	2.1	86
89	The Effect of pH on Multibubble Sonoluminescence from Aqueous Solutions Containing Simple Organic Weak Acids and Bases. Journal of the American Chemical Society, 1999, 121, 7355-7359.	13.7	85
90	Effect of Solutes on Single-Bubble Sonoluminescence in Water. Journal of Physical Chemistry A, 2000, 104, 8462-8465.	2.5	85

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91	Acoustic Emission Spectra from 515 kHz Cavitation in Aqueous Solutions Containing Surface-Active Solutes. Journal of the American Chemical Society, 2007, 129, 2250-2258.	13.7	85
92	Ultrasound assisted preparation of nanoclay Bentonite-FeCo nanocomposite hybrid hydrogel: A potential responsive sorbent for removal of organic pollutant from water. Desalination, 2011, 281, 429-437.	8.2	85
93	The effects of high-intensity ultrasound on the structural and functional properties of Î±-Lactalbumin, Î²-Lactoglobulin and their mixtures. Food Research International, 2012, 48, 940-943.	6.2	85
94	Geometric Optimization of Sonoreactors for the Enhancement of Sonochemical Activity. Journal of Physical Chemistry C, 2011, 115, 4096-4103.	3.1	84
95	Carrier separation and charge transport characteristics of reduced graphene oxide supported visible-light active photocatalysts. Physical Chemistry Chemical Physics, 2016, 18, 5179-5191.	2.8	84
96	Effect of Ni doping on electrical, photoluminescence and magnetic behavior of Cu doped ZnO nanoparticles. Journal of Luminescence, 2015, 162, 97-103.	3.1	82
97	Preparation of water-in-oil-in-water emulsions by low frequency ultrasound using skim milk and sunflower oil. Food Hydrocolloids, 2017, 63, 685-695.	10.7	82
98	Quantification of high-power ultrasound induced damage on potato starch granules using light microscopy. Ultrasonics Sonochemistry, 2012, 19, 421-426.	8.2	80
99	One-step electrochemical deposition of Ni_{1â^'x}Mo_xS ternary sulfides as an efficient counter electrode for dye-sensitized solar cells. Journal of Materials Chemistry A, 2016, 4, 16119-16127.	10.3	80
100	The Physical and Chemical Effects of Ultrasound. Food Engineering Series, 2011, , 1-12.	0.7	79
101	TiO2â€“NiO pâ€“n nanocomposite with enhanced sonophotocatalytic activity under diffused sunlight. Ultrasonics Sonochemistry, 2017, 35, 655-663.	8.2	78
102	Sonoluminescence Quenching of Organic Compounds in Aqueous Solution:Â Frequency Effects and Implications for Sonochemistry. Journal of the American Chemical Society, 2004, 126, 2755-2762.	13.7	77
103	Electrical, dielectric, photoluminescence and magnetic properties of ZnO nanoparticles co-doped with Co and Cu. Journal of Magnetism and Magnetic Materials, 2015, 374, 61-66.	2.3	77
104	The detection and control of stable and transient acoustic cavitation bubbles. Physical Chemistry Chemical Physics, 2009, 11, 10118.	2.8	74
105	Sonophotocatalytic degradation of 4-chlorophenol using Bi2O3/TiZrO4 as a visible light responsive photocatalyst. Ultrasonics Sonochemistry, 2011, 18, 135-139.	8.2	73
106	Sonophotocatalytic degradation of paracetamol using TiO2 and Fe3+. Separation and Purification Technology, 2013, 103, 114-118.	7.9	73
107	Hybrid Advanced Oxidation Processes Involving Ultrasound: An Overview. Molecules, 2019, 24, 3341.	3.8	73
108	Influence of mixing and ultrasound frequency on antisolvent crystallisation of sodium chloride. Ultrasonics Sonochemistry, 2014, 21, 60-68.	8.2	71

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109	Sonochemical synthesis of Aua€"<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TiO</mml:mtext></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> nanoparticles for the sonophotocatalytic degradation of organic pollutants in aqueous environment. Ultrasonics Sonochemistry, 2009, 16, 316-320.	8.2	70
110	Sonochemical Production of Fluorescent and Phosphorescent Latex Particles. Journal of the American Chemical Society, 2003, 125, 525-529.	13.7	69
111	Simple and Efficient Sonochemical Method for the Oxidation of Arsenic(III) to Arsenic(V). Environmental Science & Technology, 2009, 43, 6793-6798.	10.0	69
112	Ultrasonic enhancement of lipase-catalysed transesterification for biodiesel synthesis. Ultrasonics Sonochemistry, 2017, 34, 305-309.	8.2	69
113	Investigating the role of ultrasound in improving the photocatalytic ability of CQD decorated boron-doped g-C3N4 for tetracycline degradation and first-principles study of nitrogen-vacancy formation. Carbon, 2022, 192, 405-417.	10.3	68
114	The mechanism of the sonochemical degradation of benzoic acid in aqueous solutions. Research on Chemical Intermediates, 2004, 30, 723-733.	2.7	67
115	Experimental and theoretical investigations on sonoluminescence under dual frequency conditions. Ultrasonics Sonochemistry, 2008, 15, 629-635.	8.2	67
116	Novel One-Pot Synthesis of Magnetite Latex Nanoparticles by Ultrasound Irradiation. Langmuir, 2009, 25, 2593-2595.	3.5	67
117	Acoustic Bubble Sizes, Coalescence, and Sonochemical Activity in Aqueous Electrolyte Solutions Saturated with Different Gases. Langmuir, 2010, 26, 12690-12695.	3.5	67
118	Bubble Coalescence during Acoustic Cavitation in Aqueous Electrolyte Solutions. Langmuir, 2011, 27, 12025-12032.	3.5	66
119	Sonochemical Synthesis of Magnetic Janus Nanoparticles. Langmuir, 2011, 27, 30-33.	3.5	65
120	Development and optimization of acoustic bubble structures at high frequencies. Ultrasonics Sonochemistry, 2011, 18, 92-98.	8.2	65
121	Ultrasonic enhancement of the acidity, surface area and free fatty acids esterification catalytic activity of sulphated ZrO 2 â€"TiO 2 systems. Journal of Catalysis, 2013, 297, 17-26.	6.2	65
122	Sonochemically synthesized mono and bimetallic Auâ€"Ag reduced graphene oxide based nanocomposites with enhanced catalytic activity. Ultrasonics Sonochemistry, 2014, 21, 1948-1953.	8.2	65
123	Graphene oxide/Fe₃O₄/SO₃H nanohybrid: a new adsorbent for adsorption and reduction of Cr(<scp>vi</scp>) from aqueous solutions. RSC Advances, 2017, 7, 14876-14887.	3.6	65
124	Sonochemical formation of colloidal platinum. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 169, 219-225.	4.7	64
125	Sonochemical Degradation of a Polydisperse Nonylphenol Ethoxylate in Aqueous Solution. Journal of Physical Chemistry B, 2001, 105, 3338-3342.	2.6	64
126	Synthesis of Fe3+ doped TiO2 photocatalysts for the visible assisted degradation of an azo dye. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 375, 231-236.	4.7	64

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127	Innovative Technologies for Extraction and Microencapsulation of Bioactives from Plant-Based Food Waste and Their Applications in Functional Food Development. Foods, 2021, 10, 279.	4.3	64
128	Sonochemical degradation of martius yellow dye in aqueous solution. Ultrasonics Sonochemistry, 2009, 16, 28-34.	8.2	62
129	A study of the effectiveness and energy efficiency of ultrasonic emulsification. Physical Chemistry Chemical Physics, 2018, 20, 86-96.	2.8	62
130	Phase-controlled synthesis of bismuth oxide polymorphs for photocatalytic applications. Materials Chemistry Frontiers, 2018, 2, 1664-1673.	5.9	62
131	Dissolution and reconstitution of casein micelle containing dairy powders by high shear using ultrasonic and physical methods. Ultrasonics Sonochemistry, 2014, 21, 1658-1665.	8.2	61
132	Antibacterial mechanism of ultrasound against Escherichia coli: Alterations in membrane microstructures and properties. Ultrasonics Sonochemistry, 2021, 73, 105509.	8.2	61
133	Sonoprocessing: From Concepts to Large-Scale Reactors. Chemical Reviews, 2022, 122, 3219-3258.	47.7	61
134	Ultrasound-assisted oxidative-adsorptive desulfurization using highly acidic graphene oxide as a catalyst-adsorbent. Fuel, 2017, 210, 639-645.	6.4	60
135	Correlation between Na* Emission and â€œChemically Activeâ€•Acoustic Cavitation Bubbles. ChemPhysChem, 2007, 8, 2331-2335.	2.1	59
136	Theory of Sonochemistry. Topics in Current Chemistry, 2016, 374, 56.	5.8	59
137	A Comparison of the Effectiveness of Sonication, High Shear Mixing and Homogenisation on Improving the Heat Stability of Whey Protein Solutions. Food and Bioprocess Technology, 2014, 7, 556-566.	4.7	58
138	Multibubble sonoluminescence in aqueous salt solutions. Ultrasonics Sonochemistry, 1999, 6, 7-14.	8.2	57
139	The Design of Multifunctional Microbubbles for Ultrasound Image-Guided Cancer Therapy. Current Topics in Medicinal Chemistry, 2010, 10, 1198-1210.	2.1	57
140	The effect of surface active solutes on bubbles in an acoustic field. Physical Chemistry Chemical Physics, 2007, 9, 5631.	2.8	56
141	Viscosity and hydrodynamic radius relationship of high-power ultrasound depolymerised starch pastes with different amylose content. Food Hydrocolloids, 2016, 52, 183-191.	10.7	56
142	Short-lived charge-transfer-to-solvent-states and multiple electronic relaxations following femtosecond excitation of aqueous chloride ion. Chemical Physics, 1995, 197, 167-193.	1.9	55
143	Sonochemistry and Sonoluminescence in Aqueous AuCl4- Solutions in the Presence of Surface-Active Solutes. Journal of Physical Chemistry B, 1999, 103, 9231-9236.	2.6	55
144	Bubble population phenomena in sonochemical reactor: I Estimation of bubble size distribution and its number density with pulsed sonication â€“ Laser diffraction method. Ultrasonics Sonochemistry, 2010, 17, 473-479.	8.2	55

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145	Functional properties of ultrasonically generated flaxseed oil-dairy emulsions. Ultrasonics Sonochemistry, 2014, 21, 1649-1657.	8.2	55
146	Structural, optical, dielectric and antibacterial studies of Mn doped Zn0.96Cu0.04O nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 144, 1-7.	3.9	55
147	Process Intensification Approach Using Microreactors for Synthesizing Nanomaterialsâ€"A Critical Review. Nanomaterials, 2021, 11, 98.	4.1	55
148	Hydrogen evolution from water with visible radiation in presence of Cu(II)/WO3 and electron relay. International Journal of Hydrogen Energy, 1989, 14, 525-528.	7.1	53
149	Acoustic Emission from Cavitating Solutions:â€‰ Implications for the Mechanisms of Sonochemical Reactions. Journal of Physical Chemistry B, 2005, 109, 17799-17801.	2.6	53
150	Preparation and properties of visible light responsive ZrTiO4/Bi2O3 photocatalysts for 4-chlorophenol decomposition. Journal of Hazardous Materials, 2010, 182, 557-562.	12.4	53
151	The Role of Surfactant Headgroup, Chain Length, and Cavitation Microstreaming on the Growth of Bubbles by Rectified Diffusion. Journal of Physical Chemistry C, 2011, 115, 24310-24316.	3.1	53
152	Comparison of Ultrasonic and Conventional Mechanical Soil-Washing Processes for Diesel-Contaminated Sand. Industrial & Engineering Chemistry Research, 2011, 50, 2400-2407.	3.7	53
153	Sonoluminescence and sonochemiluminescence from a microreactor. Ultrasonics Sonochemistry, 2012, 19, 1252-1259.	8.2	53
154	Sono-RAFT Polymerization-Induced Self-Assembly in Aqueous Dispersion: Synthesis of LCST-type Thermosensitive Nanogels. Macromolecules, 2018, 51, 8862-8869.	4.8	53
155	The effect of surface active solutes on bubbles exposed to ultrasound. Advances in Colloid and Interface Science, 2001, 89-90, 423-438.	14.7	51
156	Inactivation of Enterobacter aerogenes in reconstituted skim milk by high- and low-frequency ultrasound. Ultrasonics Sonochemistry, 2014, 21, 2099-2106.	8.2	51
157	The Influence of Acoustic Power on Multibubble Sonoluminescence in Aqueous Solution Containing Organic Solutes. Journal of Physical Chemistry B, 2005, 109, 20044-20050.	2.6	50
158	The formation of double emulsions in skim milk using minimal food-grade emulsifiers â€" A comparison between ultrasonic and high pressure homogenisation efficiencies. Journal of Food Engineering, 2018, 219, 81-92.	5.2	50
159	Ultrasound assisted synthesis of reduced graphene oxide (rGO) supported InVO4-TiO2 nanocomposite for efficient hydrogen production. Ultrasonics Sonochemistry, 2019, 53, 1-10.	8.2	50
160	Growth of Bubbles by Rectified Diffusion in Aqueous Surfactant Solutions. Journal of Physical Chemistry C, 2010, 114, 20141-20145.	3.1	49
161	Single Bubble Sonoluminescenceâ€"A Chemist's Overview. ChemPhysChem, 2004, 5, 439-448.	2.1	48
162	Tailoring the properties of ultrasonically synthesised microbubbles. Soft Matter, 2011, 7, 623-630.	2.7	48

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163	The use of ultrasonic feed pre-treatment to reduce membrane fouling in whey ultrafiltration. Journal of Membrane Science, 2014, 453, 230-239.	8.2	48
164	Sonochemical Synthesis of Gold Nanoparticles by Using High Intensity Focused Ultrasound. ChemPhysChem, 2015, 16, 775-781.	2.1	48
165	Rapid catalytic degradation of refractory textile dyes in Fe(II)/chlorine system at near neutral pH: Radical mechanism involving chlorine radical anion (Cl2â•) -mediated transformation pathways and impact of environmental matrices. Separation and Purification Technology, 2019, 227, 115685.	7.9	48
166	Kinetics of degradation of acid red 88 in the presence of Co2+-ion/peroxomonosulphate reagent. Applied Catalysis A: General, 2009, 368, 35-39.	4.3	47
167	Sonochemical synthesis of liquid-encapsulated lysozyme microspheres. Ultrasonics Sonochemistry, 2010, 17, 333-337.	8.2	47
168	Structural, band gap and photoluminescence behaviour of Mn-doped ZnS quantum dots annealed under Ar atmosphere. Journal of Materials Science: Materials in Electronics, 2015, 26, 1533-1542.	2.2	47
169	The Role of Ultrasound on Advanced Oxidation Processes. Topics in Current Chemistry, 2016, 374, 75.	5.8	47
170	Mechanistic Investigations on Sonophotocatalytic Degradation of Textile Dyes with Surface Active Solutes. Industrial & Engineering Chemistry Research, 2011, 50, 11485-11494.	3.7	46
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